

SAFETY DATA SHEET

# MedicoDx™ Streptococcal - Select Grouping Kit ; MedicoDx™ Extraction Reagent Set

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

<i>Trade name:</i>	MedicoDx™ Streptococcal - Select Grouping Kit ; MedicoDx™ Extraction Reagent Set
<i>Other names / Synonyms:</i>	The PL041C Streptococcal Select Grouping Kit contains the Extraction Reagents and the Polyvalent Positive Control. This used in combination with the Streptococcal Grouping Latex Reagents, provides a rapid method for the serological identification of groups A, B, C, D, F, and G of the Lancefield groups of streptococci grown on agar plates. Extraction Reagent 1 (PL047C-7/PL047C-18) Extraction Reagent 2 (PL048C-7/PL048C-18) Extraction Reagent 3 (PL049C-7/PL049C-18) Polyvalent Positive Control (PL040C) Particle Suspension Group A (PL031C) Particle Suspension Group B (PL032C) Particle Suspension Group C (PL033C) Particle Suspension Group D (PL034C) Particle Suspension Group F (PL035C) Particle Suspension Group G (PL036C)
<i>Product no.:</i>	Individual SDSs for the above components can be found attached to this SDS. PL041C; PL046C-7/PL046C-18

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

<i>Relevant identified uses of the substance or mixture:</i>	Laboratory use Restricted to professional users.
<i>Uses advised against :</i>	None known.

### 1.3. Details of the supplier of the safety data sheet

<i>Company and address:</i>	<b>Inter Medico</b> 50 Valleywood Drive L3R 6E9 Markham, Ontario Canada Tel: 905-470-2520 Toll free: (English) 800-387-9643; (French) 800-268-1150 Fax: 905-470-2381 <a href="https://www.inter-medico.com/">https://www.inter-medico.com/</a>
<i>Contact person:</i>	Technical Support
<i>E-mail:</i>	<a href="mailto:technical@inter-medico.com">technical@inter-medico.com</a>

SDS date: 2024-01-24  
 SDS Version: 1.0  
 Date of previous version: 2024-01-17 (1.0)

**1.4. Emergency telephone number**

In an emergency call 911  
 Alberta / Northwestern Territories (PADIS): 1-800-332-1414  
 British Columbia (DPIC): 1-800-567-8911  
 Manitoba: 1-855-7POISON (1-855-776-4766)  
 New Brunswick: 911  
 Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161  
 Ontario (OPC): 1-800-268-9017  
 Québec (CAPQ): 1-800-463-5060  
 Saskatchewan (PADIS): 1-866-454-1212  
 Yukon Territory: (867) 393-8700  
 Transport emergencies: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or \*666 on a cellular phone (24 hours)  
 See also section 4 "First aid measures".

**SECTION 2: HAZARD(S) IDENTIFICATION**

Classified according to WHMIS 2022.

**2.1. Classification of the substance or mixture**

Acute Tox. 4; H302, Harmful if swallowed.  
 Skin Corr. 1A; H314, Causes severe skin burns and eye damage.  
 Eye Dam. 1; H318, Causes serious eye damage.  
 Repr. 1B; H360, May damage fertility or the unborn child.

**2.2. Label elements**

Hazard pictogram(s):



Signal word:

Danger

Hazard statement(s):

Harmful if swallowed. (H302)  
 Causes severe skin burns and eye damage. (H314)  
 May damage fertility or the unborn child. (H360)

Precautionary statement(s):

General:

-

Prevention:

Obtain special instructions before use. (P201)  
 Do not breathe vapour. (P260)  
 Wear eye protection/protective gloves/protective clothing. (P280)

Response:

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)  
 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)  
 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)  
 IF exposed or concerned: Get medical advice/attention. (P308+P313)  
 Immediately call a POISON CENTER/doctor. (P310)

<i>Storage:</i>	-
<i>Disposal:</i>	Dispose of contents/container in accordance with local regulation (P501)
<i>Hazardous substances:</i>	sodium nitrite acetic acid sodium azide methanol
<i>Additional labelling:</i>	Not applicable.

### 2.3. Other hazards

*Additional warnings:* This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substances

Not applicable. This product is a mixture.

### 3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
Deionized water	CAS No.: 7732-18-5	-%		
sodium nitrite	CAS No.: 7632-00-0	5-10%	Ox. Sol. 2, H272 Acute Tox. 3, H301 Eye Irrit. 2, H319	
acetic acid	CAS No.: 64-19-7	5-10%	Flam. Liq. 3, H226 Skin Corr. 1A, H314	
sodium azide	CAS No.: 26628-22-8	<1%	Acute Tox. 2, H300 PHNOC032	
methanol	CAS No.: 67-56-1	<0.25%	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	
boric acid	CAS No.: 10043-35-3	<0.25%	Repr. 1B, H360	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

### Other information

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## SECTION 4: FIRST-AID MEASURES

### 4.1. Description of first aid measures

<i>General information:</i>	The product is an article and is unlikely to be of any chemical risk.
<i>Inhalation:</i>	Exposure is not likely due to the physical state of the product (article).
<i>Skin contact:</i>	Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment. Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
<i>Eye contact:</i>	If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.
<i>Ingestion:</i>	Exposure is not likely due to the physical state of the product (article).
<i>Burns:</i>	Not applicable.

**4.2. Most important symptoms and effects, both acute and delayed**

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

**4.3. Indication of any immediate medical attention and special treatment needed**

IF exposed or concerned:  
Get immediate medical advice/attention.

**Information to medics**

Bring this safety data sheet or the label from this product.

**SECTION 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

Not applicable.

**5.2. Special hazards arising from the substance or mixture**

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

- Halogenated compounds
- Nitrogen oxides (NO<sub>x</sub>)
- Carbon oxides (CO / CO<sub>2</sub>)
- Some metal oxides

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1

“Emergency telephone number”.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.  
Ensure adequate ventilation, especially in confined areas.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

### 6.3. Methods and material for containment and cleaning up

Not applicable due to the physical state of the product (article).

### 6.4. Reference to other sections

See section 13 “Disposal considerations” on handling of waste.  
See section 8 “Exposure controls/personal protection” for protective measures.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid direct contact with the product.  
Avoid contact during pregnancy and while nursing.  
Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 “Exposure controls/personal protection” for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

<i>Recommended storage material:</i>	Keep only in original packaging.
<i>Storage temperature:</i>	Refrigerator, 2 to 8°C
<i>Incompatible materials:</i>	Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

ALBERTA

acetic acid

Long term exposure limit (8 hours) (ppm): 10  
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 25  
Short term exposure limit (15 minutes) (ppm): 15  
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 37

sodium azide

Short term exposure limit (15 minutes) (ppm): (c) 0.11 (vapour / vapeur)  
Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): (c) 0.29 (NaN<sub>3</sub>) / 0.3 (vapour / vapeur)

methanol

Long term exposure limit (8 hours) (ppm): 200  
Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 262

Short term exposure limit (15 minutes) (ppm): 250  
 Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 328

Annotations:

1 = Substance may be readily absorbed through intact skin.

Occupational Health and Safety Code 2009 Order, Alta Reg 87/2009 (revised in 2018)

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BRITISH COLUMBIA

acetic acid

Time-Weighted Average Limit (TWA): 10 ppm

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 15 ppm

sodium azide

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): C 0.29 mg/m<sup>3</sup> (NaN<sub>3</sub>) ; C 0.11 ppm  
 (Hydrazoic acid vapour / Vapeur d'acide hydrazoïque)

methanol

Time-Weighted Average Limit (TWA): 200 ppm

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 250 ppm

Annotations:

Skin = The substances contributes significantly to the overall exposure by the skin route.

boric acid

Time-Weighted Average Limit (TWA): 2 mg/m<sup>3</sup>

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 6 mg/m<sup>3</sup>

OHS Regulation Part 5: Chemical Agents and Biological Agents.

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ONTARIO

acetic acid

Time-Weighted Average Limit (TWA): 10 ppm

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 15 ppm

sodium azide

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): C 0.29 mg/m<sup>3</sup> (sodium azide) / C 0.11 ppm  
 (Hydrazoic acid vapour)

methanol

Time-Weighted Average Limit (TWA): 200 ppm

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 250 ppm

Annotations:

"Skin" = Danger of cutaneous absorption.

boric acid

Time-Weighted Average Limit (TWA): 2 mg/m<sup>3</sup>

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 6 mg/m<sup>3</sup>

Annotations:

(I) = Inhalable fraction.

Regulation 833 (Control of Exposure to Biological or Chemical Agents) and Ontario Regulation 490/09 (Designated Substances)

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QUEBEC

acetic acid

Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 25

sodium azide

methanol

Long term exposure limit (8 hours) (ppm): 200

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 262

Annotations:

Pc = Potentially significant contribution to the overall exposure by the cutaneous route. The

cutaneous route includes mucous membranes and the eyes.  
 boric acid  
 Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2  
 Annotations:  
 Id = Inhalable dust.  
 Regulation respecting occupational health and safety (Chapter S-2.1, r. 13)

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SASKATCHEWAN

acetic acid  
 Long term exposure limit (8 hours) (ppm): 10  
 Short term exposure limit (15 minutes) (ppm): 15  
 sodium azide  
 STEV/Ceiling (mg/m<sup>3</sup>): 0.29 (as Sodium azide / sous forme d'azide de sodium ) / 0.11 (as Hydrazoic acid vapour / sous forme de vapeur d'acide hydrazoïque)  
 methanol  
 Long term exposure limit (8 hours) (ppm): 200  
 Short term exposure limit (15 minutes) (ppm): 250  
 Annotations:  
 Skin = Potentially harmful after absorption through the skin or mucous membranes  
 boric acid  
 Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2  
 Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 6  
 The Occupational Health and Safety Regulations, 2020, Chapter S15.1 Reg 10.


**8.2. Exposure controls**

Compliance with the given occupational exposure limits values should be controlled on a regular basis.


<i>General recommendations:</i>	Smoking, drinking and consumption of food is not allowed in the work area.
<i>Exposure scenarios:</i>	There are no exposure scenarios implemented for this product.
<i>Exposure limits:</i>	Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.
<i>Appropriate technical measures:</i>	Ensure that eyewash stations and safety showers are located within easy reach. Exposure is not likely due to the physical state of the product (article).
<i>Hygiene measures:</i>	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.
<i>Measures to avoid environmental exposure:</i>	Keep damming materials near the workplace. If possible, collect spillage during work.

**Individual protection measures, such as personal protective equipment**


<i>Generally:</i>	Use only protective equipment with a recognized certification mark, e.g. the UL mark.
<i>Respiratory Equipment:</i>	No specific requirements
<i>Skin protection:</i>	

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	-	-	EN374-2	

*Eye protection:*

Type	Standards	
Safety glasses	EN166	

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

<i>Physical state:</i>	Article
<i>Colour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour threshold (ppm):</i>	Testing not relevant or not possible due to the nature of the product.
<i>pH:</i>	Not applicable due to the physical state of the product (article).
<i>Density (g/cm<sup>3</sup>):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Kinematic viscosity:</i>	Not applicable due to the physical state of the product (article).

**Phase changes**

<i>Melting point (°C):</i>	Not applicable due to the physical state of the product (article).
<i>Boiling point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Vapour pressure:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Relative vapour density:</i>	Not applicable due to the physical state of the product (article).
<i>Decomposition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Evaporation rate (n-butylacetate = 100):</i>	



**Data on fire and explosion hazards**

<i>Flash point (°C):</i>	Not applicable due to the physical state of the product (article).
<i>Flammability (°C):</i>	Not applicable due to the physical state of the product (article).
<i>Auto-ignition temperature (°C):</i>	Not applicable due to the physical state of the product (article).
<i>Explosion limits (% v/v):</i>	Not applicable due to the physical state of the product (article).

**Solubility**

<i>Solubility in water:</i>	Not applicable due to the physical state of the product (article).
<i>n-octanol/water coefficient (LogKow):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Solubility in fat (g/L):</i>	Testing not relevant or not possible due to the nature of the product.

**9.2. Other information**

<i>Other physical and chemical parameters:</i>	No data available.
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**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

**10.3. Possibility of hazardous reactions**

None known.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity**

Product/substance	sodium azide
Species:	Rat
Route of exposure:	Oral
Test:	LD50
Result:	27 mg/kg

Product/substance	sodium azide
Species:	Mouse
Route of exposure:	Oral

Test: LD50  
 Result: 27 mg/kg

Product/substance: sodium azide  
 Species: Rabbit  
 Route of exposure: Dermal  
 Test: LD50  
 Result: 20 mg/kg

Harmful if swallowed.

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Skin sensitisation**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

May damage fertility or the unborn child.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Long term effects**

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

**Other information**

None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Product/substance: sodium azide  
 Species: Fish, *Oncorhynchus mykiss*  
 Duration: 96 hours  
 Test: LC50  
 Result: 0,8 mg/L

Product/substance: sodium azide  
 Species: Fish, *Lepomis macrochirus*  
 Duration: 96 hours  
 Test: LC50

Result:	0,7 mg/L
Product/substance	sodium azide
Species:	Fish, Pimephales promelas
Duration:	96 hours
Test:	LC50
Result:	5,46 mg/L
Product/substance	boric acid
Species:	Daphnia, Daphnia magna
Compartment:	Freshwater
Duration:	48 hours
Test:	LC50
Result:	133 mg/L
Product/substance	boric acid
Species:	Fish, Paralichthys olivaceus
Compartment:	Marine water
Duration:	96 hours
Test:	LC50
Result:	108 mg/L
Product/substance	boric acid
Species:	Daphnia, Daphnia magna
Compartment:	Freshwater
Duration:	21 days
Test:	NOEC
Result:	6000 µg/L
Product/substance	boric acid
Species:	Fish, Oncorhynchus mykiss
Compartment:	Freshwater
Duration:	87 d.
Test:	NOEC
Result:	2100 µg/L

**12.2. ▼ Persistence and degradability**

Based on available data, the classification criteria are not met.

**12.3. ▼ Bioaccumulative potential**

Product/substance	boric acid
LogKow:	-1.09
Conclusion:	No potential for bioaccumulation

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. Other adverse effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

sodium azide is listed with EPA Hazardous Waste Number: P105




methanol is listed with EPA Hazardous Waste Number: U154

**Specific labelling**

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: TRANSPORT INFORMATION**

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
TDG	UN3316	CHEMICAL KIT	Transport hazard class: 9 Label: 9 Classification code: M11 	-	No	Limited quantities: SP251 Tunnel restriction code: (E) See below for additional information.
IMDG	UN3316	CHEMICAL KIT	Transport hazard class: 9 Label: 9 Classification code: M11 	-	No	Limited quantities: SP251 EmS: F-A S-P See below for additional information.
IATA	UN3316	CHEMICAL KIT	Transport hazard class: 9 Label: 9 Classification code: M11 	-	No	See below for additional information.

\* Packing group

\*\* Environmental hazards

**Additional information**

TDG / See Schedule 1 for any information on special provisions, requirements, or warnings in connection with transport. See part 3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

This product is within scope of the regulations of transport of dangerous goods.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. Canadian lists

*DSL / NDSL:*

Deionized water is listed  
 sodium nitrite is listed  
 acetic acid is listed  
 sodium azide is listed  
 methanol is listed  
 boric acid is listed

### 15.4. Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

### 15.5. Demands for specific education

No specific requirements.

### Additional information

Not applicable.

### 15.7. Chemical safety assessment

No

### Sources

Hazardous Products Regulations (SOR/2022-272)

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H225, Highly flammable liquid and vapour.

H226, Flammable liquid and vapour.

H272, May intensify fire; oxidiser.

H300, Fatal if swallowed.

H301, Toxic if swallowed.

H311, Toxic in contact with skin.

H314, Causes severe skin burns and eye damage.

H319, Causes serious eye irritation.

H331, Toxic if inhaled.

H360, May damage fertility or the unborn child.

H370, Causes damage to organs.

PHNOC032, Contact with acids liberates very toxic gas.

### The full text of identified uses as mentioned in section 1

None known.

### Abbreviations and acronyms

ANSI = American National Standards Institute

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

DSL = Domestic Substances List  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 HHNOC = Health Hazards Not Otherwise Classified  
 IARC = International Agency for Research on Cancer  
 IATA = International Air Transport Association  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 NDSL = Non-domestic substances list  
 OECD = Organisation for Economic Co-operation and Development  
 PBT = Persistent, Bioaccumulative and Toxic  
 PHNOC = Physical Hazards Not Otherwise Classified  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SCL = A specific concentration limit.  
 SOR = Statutory Orders and Regulations  
 STEL = Short-term exposure limits  
 STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
 STOT-SE = Specific Target Organ Toxicity - Single Exposure  
 TDG = Transportation of Dangerous Goods  
 TWA = Time weighted average  
 UN = United Nations  
 UVBC = Unknown or variable composition, complex reaction products or of biological materials  
 VOC = Volatile Organic Compound  
 vPvB = Very Persistent and Very Bioaccumulative  
 WHIMS = Workplace Hazardous Materials Information System

**Additional information**

A safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information.

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by WHMIS 2022

**▼ The safety data sheet is validated by**

Vennila Vengadessin

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en

SAFETY DATA SHEET

# Extraction Reagent 1

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

*Trade name:* Extraction Reagent 1  
*Product no.:* PL047C-7/PL047C-18

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Laboratory use  
 Restricted to professional users.  
*Uses advised against :* None known.

### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **Inter Medico**  
 50 Valleywood Drive  
 L3R 6E9 Markham, Ontario  
 Canada  
 Tel: 905-470-2520  
 Toll free: (English) 800-387-9643; (French) 800-268-1150  
 Fax: 905-470-2381  
<https://www.inter-medico.com/>

*Contact person:* Technical Support  
*E-mail:* [technical@inter-medico.com](mailto:technical@inter-medico.com)  
*SDS date:* 2024-01-17  
*SDS Version:* 1.0

### 1.4. Emergency telephone number

In an emergency call 911  
 Alberta / Northwestern Territories (PADIS): 1-800-332-1414  
 British Columbia (DPIC): 1-800-567-8911  
 Manitoba: 1-855-7POISON (1-855-776-4766)  
 New Brunswick: 911  
 Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161  
 Ontario (OPC): 1-800-268-9017  
 Québec (CAPQ): 1-800-463-5060  
 Saskatchewan (PADIS): 1-866-454-1212  
 Yukon Territory: (867) 393-8700  
 Transport emergencies: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or \*666 on a cellular phone (24 hours)  
 See also section 4 "First aid measures".

## SECTION 2: HAZARD(S) IDENTIFICATION

Classified according to WHMIS 2022.

### 2.1. Classification of the substance or mixture

Acute Tox. 4; H302, Harmful if swallowed.

**2.2. Label elements**

*Hazard pictogram(s):*



*Signal word:*

Warning

*Hazard statement(s):*

Harmful if swallowed. (H302)

*Precautionary statement(s):*

*General:*

-

*Prevention:*

Wash hands and exposed skin thoroughly after handling. (P264)

*Response:*

-

*Storage:*

-

*Disposal:*

Dispose of contents/container in accordance with local regulation (P501)

*Hazardous substances:*

sodium nitrite  
methanol

*Additional labelling:*

Not applicable.

**2.3. Other hazards**

*Additional warnings:*

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable. This product is a mixture.

**3.2. Mixtures**

Product/substance	Identifiers	% w/w	Classification	Note
sodium nitrite	CAS No.: 7632-00-0	5-10%	Ox. Sol. 2, H272 Acute Tox. 3, H301 Eye Irrit. 2, H319	
methanol	CAS No.: 67-56-1	<0.25%	Flam. Liq. 2, H225 Acute Tox. 3, H301 Acute Tox. 3, H311 Acute Tox. 3, H331 STOT SE 1, H370	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

-

**SECTION 4: FIRST-AID MEASURES**



#### 4.1. Description of first aid measures

<i>General information:</i>	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
<i>Inhalation:</i>	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
<i>Skin contact:</i>	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
<i>Eye contact:</i>	If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.
<i>Ingestion:</i>	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
<i>Burns:</i>	Not applicable.

#### 4.2. Most important symptoms and effects, both acute and delayed

None known.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Not applicable.

#### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO<sub>x</sub>)

Some metal oxides

#### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1 "Emergency telephone number".

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

#### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

**6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

**6.4. Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:* Keep only in original packaging.

*Storage temperature:* Refrigerator, 2 to 8°C

*Incompatible materials:* Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**7.3. Specific end use(s)**

This product should only be used for applications quoted in section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

**ALBERTA**

methanol

Long term exposure limit (8 hours) (ppm): 200

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 262

Short term exposure limit (15 minutes) (ppm): 250

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 328

Annotations:

1 = Substance may be readily absorbed through intact skin.

Occupational Health and Safety Code 2009 Order, Alta Reg 87/2009 (revised in 2018)

**BRITISH COLUMBIA**

methanol

Time-Weighted Average Limit (TWA): 200 ppm

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 250 ppm

Annotations:

Skin = The substances contributes significantly to the overall exposure by the skin route.

OHS Regulation Part 5: Chemical Agents and Biological Agents.

**ONTARIO**

methanol

Time-Weighted Average Limit (TWA): 200 ppm

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 250 ppm

Annotations:

"Skin" = Danger of cutaneous absorption.  
 Regulation 833 (Control of Exposure to Biological or Chemical Agents) and Ontario Regulation 490/09 (Designated Substances)

QUEBEC

methanol

Long term exposure limit (8 hours) (ppm): 200

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 262

Annotations:

Pc = Potentially significant contribution to the overall exposure by the cutaneous route. The cutaneous route includes mucous membranes and the eyes.

Regulation respecting occupational health and safety (Chapter S-2.1, r. 13)

SASKATCHEWAN

methanol

Long term exposure limit (8 hours) (ppm): 200

Short term exposure limit (15 minutes) (ppm): 250

Annotations:

Skin = Potentially harmful after absorption through the skin or mucous membranes

The Occupational Health and Safety Regulations, 2020, Chapter S15.1 Reg 10.

**8.2. Exposure controls**

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:*

Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:*

There are no exposure scenarios implemented for this product.

*Exposure limits:*

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:*

The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:*

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

*Measures to avoid environmental exposure:*

No specific requirements.

**Individual protection measures, such as personal protective equipment**


*Generally:*

Use only protective equipment with a recognized certification mark, e.g. the UL mark.


*Respiratory Equipment:*

No specific requirements


*Skin protection:*

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	-	-	EN374-2	

*Eye protection:*

Type	Standards	
Safety glasses	EN166	

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

<i>Physical state:</i>	Liquid
<i>Colour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour threshold (ppm):</i>	Testing not relevant or not possible due to the nature of the product.
<i>pH:</i>	7.5
<i>Density (g/cm<sup>3</sup>):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Kinematic viscosity:</i>	Testing not relevant or not possible due to the nature of the product.

**Phase changes**

<i>Melting point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Boiling point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Vapour pressure:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Relative vapour density:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Decomposition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Evaporation rate (n-butylacetate = 100):</i>	

**Data on fire and explosion hazards**

<i>Flash point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Flammability (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Auto-ignition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.

*Explosion limits (% v/v):*

Testing not relevant or not possible due to the nature of the product.

## Solubility

*Solubility in water:*

Testing not relevant or not possible due to the nature of the product.

*n-octanol/water coefficient (LogKow):*

Testing not relevant or not possible due to the nature of the product.

*Solubility in fat (g/L):*

Testing not relevant or not possible due to the nature of the product.

## 9.2. Other information

*Other physical and chemical parameters:*

No data available.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### Acute toxicity

Harmful if swallowed.

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Skin sensitisation

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Long term effects**

None known.

**Other information**

None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

No data available.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. Other adverse effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

methanol is listed with EPA Hazardous Waste Number: U154

**Specific labelling**

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: TRANSPORT INFORMATION**

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
TDG	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

**Additional information**

Not dangerous goods according to TDG, IATA and IMDG.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Canadian lists**

*DSL / NDSL:*

sodium nitrite is listed  
methanol is listed

**15.4. Restrictions for application**

Restricted to professional users.

**15.5. Demands for specific education**

No specific requirements.

**Additional information**

Not applicable.

**15.7. Chemical safety assessment**

No

**Sources**

Hazardous Products Regulations (SOR/2022-272)

**SECTION 16: OTHER INFORMATION**

**Full text of H-phrases as mentioned in section 3**

- H225, Highly flammable liquid and vapour.
- H272, May intensify fire; oxidiser.
- H301, Toxic if swallowed.
- H311, Toxic in contact with skin.
- H319, Causes serious eye irritation.
- H331, Toxic if inhaled.
- H370, Causes damage to organs.

**The full text of identified uses as mentioned in section 1**

None known.

**Abbreviations and acronyms**

- ANSI = American National Standards Institute
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- CAS = Chemical Abstracts Service
- DSL = Domestic Substances List
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- HHNOC = Health Hazards Not Otherwise Classified
- IARC = International Agency for Research on Cancer
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NDSL = Non-domestic substances list
- OECD = Organisation for Economic Co-operation and Development

PBT = Persistent, Bioaccumulative and Toxic  
PHNOC = Physical Hazards Not Otherwise Classified  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
SCL = A specific concentration limit.  
SOR = Statutory Orders and Regulations  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TDG = Transportation of Dangerous Goods  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative  
WHIMS = Workplace Hazardous Materials Information System

**Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by WHMIS 2022

**The safety data sheet is validated by**

Vennila Vengadessin

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en



SAFETY DATA SHEET

# Extraction Reagent 2

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

*Trade name:* Extraction Reagent 2  
*Product no.:* PL048C-7/PL048C-18

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Laboratory use  
 Restricted to professional users.  
*Uses advised against :* None known.

### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **Inter Medico**  
 50 Valleywood Drive  
 L3R 6E9 Markham, Ontario  
 Canada  
 Tel: 905-470-2520  
 Toll free: (English) 800-387-9643; (French) 800-268-1150  
 Fax: 905-470-2381  
<https://www.inter-medico.com/>

*Contact person:* Technical Support  
*E-mail:* [technical@inter-medico.com](mailto:technical@inter-medico.com)  
*SDS date:* 2024-01-17  
*SDS Version:* 1.0

### 1.4. Emergency telephone number

In an emergency call 911  
 Alberta / Northwestern Territories (PADIS): 1-800-332-1414  
 British Columbia (DPIC): 1-800-567-8911  
 Manitoba: 1-855-7POISON (1-855-776-4766)  
 New Brunswick: 911  
 Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161  
 Ontario (OPC): 1-800-268-9017  
 Québec (CAPQ): 1-800-463-5060  
 Saskatchewan (PADIS): 1-866-454-1212  
 Yukon Territory: (867) 393-8700  
 Transport emergencies: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or \*666 on a cellular phone (24 hours)  
 See also section 4 "First aid measures".

## SECTION 2: HAZARD(S) IDENTIFICATION

Classified according to WHMIS 2022.

### 2.1. Classification of the substance or mixture

Skin Corr. 1A; H314, Causes severe skin burns and eye damage.  
 Eye Dam. 1; H318, Causes serious eye damage.

**2.2. Label elements**

*Hazard pictogram(s):*



*Signal word:*

Danger

*Hazard statement(s):*

Causes severe skin burns and eye damage. (H314)

*Precautionary statement(s):*

*General:*

-

*Prevention:*

Do not breathe vapour/mist. (P260)  
Wear eye protection/protective gloves/protective clothing. (P280)

*Response:*

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. (P301+P330+P331)  
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. (P303+P361+P353)  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305+P351+P338)  
Immediately call a POISON CENTER/doctor. (P310)

*Storage:*

-

*Disposal:*

Dispose of contents/container in accordance with local regulation (P501)

*Hazardous substances:*

acetic acid

*Additional labelling:*

Not applicable.

**2.3. Other hazards**

*Additional warnings:*

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable. This product is a mixture.

**3.2. Mixtures**

Product/substance	Identifiers	% w/w	Classification	Note
acetic acid	CAS No.: 64-19-7	5-10%	Flam. Liq. 3, H226 Skin Corr. 1A, H314	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

-

**SECTION 4: FIRST-AID MEASURES**

#### 4.1. Description of first aid measures

<i>General information:</i>	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
<i>Inhalation:</i>	Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
<i>Skin contact:</i>	Flush exposed area with water for a long time - at least 30 minutes. It may be necessary to flush for several hours. Use a comfortable water temperature (20-30 °C). Contact Poison Information/doctor/hospital for further advice on follow-up and treatment. Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
<i>Eye contact:</i>	If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) for at least 30 minutes and continue until irritation stops. Remove contact lenses. Make sure you flush under the upper and lower eyelids. Seek medical assistance immediately and continue flushing during transport.
<i>Ingestion:</i>	In the case of ingestion, contact a doctor immediately. If the person is conscious, give them water. DO NOT try to induce vomiting unless this is recommended by a doctor. Hold head facing down to prevent vomit from returning to the mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.
<i>Burns:</i>	Not applicable.

#### 4.2. Most important symptoms and effects, both acute and delayed

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

#### 4.3. Indication of any immediate medical attention and special treatment needed

IF exposed or concerned:  
Get immediate medical advice/attention.

#### Information to medics

Bring this safety data sheet or the label from this product.

### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1. Extinguishing media

Not applicable.

#### 5.2. Special hazards arising from the substance or mixture

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Carbon oxides (CO / CO<sub>2</sub>)

### 5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1 "Emergency telephone number".

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances.  
Ensure adequate ventilation, especially in confined areas.  
Contaminated areas may be slippery.

### 6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

### 6.3. Methods and material for containment and cleaning up

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.  
Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

### 6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.  
See section 8 "Exposure controls/personal protection" for protective measures.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

Avoid direct contact with the product.  
Avoid contact during pregnancy and while nursing.  
Smoking, drinking and consumption of food is not allowed in the work area.  
See section 8 "Exposure controls/personal protection" for information on personal protection.

### 7.2. Conditions for safe storage, including any incompatibilities

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:* Keep only in original packaging.

*Storage temperature:* Refrigerator, 2 to 8°C

*Incompatible materials:* Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

ALBERTA

acetic acid

Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 25

Short term exposure limit (15 minutes) (ppm): 15

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 37

Occupational Health and Safety Code 2009 Order, Alta Reg 87/2009 (revised in 2018)

**BRITISH COLUMBIA**

acetic acid

Time-Weighted Average Limit (TWA): 10 ppm

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 15 ppm

OHS Regulation Part 5: Chemical Agents and Biological Agents.

**ONTARIO**

acetic acid

Time-Weighted Average Limit (TWA): 10 ppm

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 15 ppm

Regulation 833 (Control of Exposure to Biological or Chemical Agents) and Ontario Regulation 490/09 (Designated Substances)

**QUEBEC**

acetic acid

Long term exposure limit (8 hours) (ppm): 10

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 25

Regulation respecting occupational health and safety (Chapter S-2.1, r. 13)

**SASKATCHEWAN**

acetic acid

Long term exposure limit (8 hours) (ppm): 10

Short term exposure limit (15 minutes) (ppm): 15

The Occupational Health and Safety Regulations, 2020, Chapter S15.1 Reg 10.

**8.2. Exposure controls**

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

<i>General recommendations:</i>	Smoking, drinking and consumption of food is not allowed in the work area.
<i>Exposure scenarios:</i>	There are no exposure scenarios implemented for this product.
<i>Exposure limits:</i>	Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.
<i>Appropriate technical measures:</i>	The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Ensure that eyewash stations and safety showers are located within easy reach. Apply standard precautions during use of the product. Avoid inhalation of vapours.
<i>Hygiene measures:</i>	In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.
<i>Measures to avoid environmental exposure:</i>	Keep damming materials near the workplace. If possible, collect spillage during work.


**Individual protection measures, such as personal protective equipment**

*Generally:* Use only protective equipment with a recognized


certification mark, e.g. the UL mark.

*Respiratory Equipment:*  
No specific requirements


*Skin protection:*

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	-	-	EN374-2	

*Eye protection:*

Type	Standards	
Safety glasses	EN166	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Liquid
<i>Colour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour threshold (ppm):</i>	Testing not relevant or not possible due to the nature of the product.
<i>pH:</i>	2
<i>Density (g/cm<sup>3</sup>):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Kinematic viscosity:</i>	Testing not relevant or not possible due to the nature of the product.

### Phase changes

<i>Melting point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Boiling point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Vapour pressure:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Relative vapour density:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Decomposition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Evaporation rate (n-butylacetate =</i>	

100):

**Data on fire and explosion hazards**

<i>Flash point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Flammability (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Auto-ignition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Explosion limits (% v/v):</i>	Testing not relevant or not possible due to the nature of the product.

**Solubility**

<i>Solubility in water:</i>	Testing not relevant or not possible due to the nature of the product.
<i>n-octanol/water coefficient (LogKow):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Solubility in fat (g/L):</i>	Testing not relevant or not possible due to the nature of the product.

**9.2. Other information**

<i>Other physical and chemical parameters:</i>	No data available.
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**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 "Handling and storage".

**10.3. Possibility of hazardous reactions**

None known.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

Thermal decomposition may produce corrosive vapours.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Causes severe skin burns and eye damage.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Skin sensitisation**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Long term effects**

Tissue-damaging effects: This product contains substances with skin corrosive properties. Inhaled vapour or aerosols may produce adverse effects to lungs, irritations and burns in the respiratory organs as well as coughing. Dermal contact and contact with the eye cause irreversible effects.

**Other information**

None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

No data available.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. Other adverse effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

None of the components are listed

**Specific labelling**

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: TRANSPORT INFORMATION**



	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
TDG	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

**Additional information**

This product is within scope of the regulations of transport of dangerous goods.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Canadian lists**

*DSL / NDSL:* acetic acid is listed

**15.4. Restrictions for application**

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

**15.5. Demands for specific education**

No specific requirements.

**Additional information**

Not applicable.

**15.7. Chemical safety assessment**

No

**Sources**

Hazardous Products Regulations (SOR/2022-272)

**SECTION 16: OTHER INFORMATION**

**Full text of H-phrases as mentioned in section 3**

H226, Flammable liquid and vapour.

H314, Causes severe skin burns and eye damage.

**The full text of identified uses as mentioned in section 1**

None known.

**Abbreviations and acronyms**

ANSI = American National Standards Institute

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

DSL = Domestic Substances List  
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
 HHNOC = Health Hazards Not Otherwise Classified  
 IARC = International Agency for Research on Cancer  
 IATA = International Air Transport Association  
 IMDG = International Maritime Dangerous Goods  
 LogPow = logarithm of the octanol/water partition coefficient  
 MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
 NDSL = Non-domestic substances list  
 OECD = Organisation for Economic Co-operation and Development  
 PBT = Persistent, Bioaccumulative and Toxic  
 PHNOC = Physical Hazards Not Otherwise Classified  
 RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
 SCL = A specific concentration limit.  
 SOR = Statutory Orders and Regulations  
 STEL = Short-term exposure limits  
 STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
 STOT-SE = Specific Target Organ Toxicity - Single Exposure  
 TDG = Transportation of Dangerous Goods  
 TWA = Time weighted average  
 UN = United Nations  
 UVBC = Unknown or variable composition, complex reaction products or of biological materials  
 VOC = Volatile Organic Compound  
 vPvB = Very Persistent and Very Bioaccumulative  
 WHIMS = Workplace Hazardous Materials Information System

**Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by WHMIS 2022

**The safety data sheet is validated by**

Vennila Vengadessin

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en

SAFETY DATA SHEET

# Extraction Reagent 3

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

*Trade name:* Extraction Reagent 3  
*Product no.:* PL049C-7/PL049C-18

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Laboratory use  
 Restricted to professional users.  
*Uses advised against :* None known.

### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **Inter Medico**  
 50 Valleywood Drive  
 L3R 6E9 Markham, Ontario  
 Canada  
 Tel: 905-470-2520  
 Toll free: (English) 800-387-9643; (French) 800-268-1150  
 Fax: 905-470-2381  
<https://www.inter-medico.com/>

*Contact person:* Technical Support  
*E-mail:* technical@inter-medico.com  
*SDS date:* 2024-01-17  
*SDS Version:* 1.0

### 1.4. Emergency telephone number

In an emergency call 911  
 Alberta / Northwestern Territories (PADIS): 1-800-332-1414  
 British Columbia (DPIC): 1-800-567-8911  
 Manitoba: 1-855-7POISON (1-855-776-4766)  
 New Brunswick: 911  
 Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161  
 Ontario (OPC): 1-800-268-9017  
 Québec (CAPQ): 1-800-463-5060  
 Saskatchewan (PADIS): 1-866-454-1212  
 Yukon Territory: (867) 393-8700  
 Transport emergencies: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or \*666 on a cellular phone (24 hours)  
 See also section 4 "First aid measures".

## SECTION 2: HAZARD(S) IDENTIFICATION

### 2.1. Classification of the substance or mixture

Not classified according to WHMIS 2022

### 2.2. Label elements

<i>Hazard pictogram(s):</i>	Not applicable.
<i>Signal word:</i>	Not applicable.
<i>Hazard statement(s):</i>	
<i>Precautionary statement(s):</i>	
<i>General:</i>	-
<i>Prevention:</i>	-
<i>Response:</i>	-
<i>Storage:</i>	-
<i>Disposal:</i>	-
<i>Hazardous substances:</i>	None known.
<i>Additional labelling:</i>	Not applicable.

**2.3. Other hazards**

<i>Additional warnings:</i>	This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable. This product is a mixture.

**3.2. Mixtures**

Does not contain any substances required to report

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

-

**SECTION 4: FIRST-AID MEASURES**

**4.1. Description of first aid measures**

<i>General information:</i>	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
<i>Inhalation:</i>	In case of discomfort: bring the person into fresh air.
<i>Skin contact:</i>	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
<i>Eye contact:</i>	If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.
<i>Ingestion:</i>	Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.
<i>Burns:</i>	Not applicable.

**4.2. Most important symptoms and effects, both acute and delayed**

None known.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**Information to medics**

Bring this safety data sheet or the label from this product.

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**SECTION 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

Not applicable.

**5.2. Special hazards arising from the substance or mixture**

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Nitrogen oxides (NO<sub>x</sub>)

Carbon oxides (CO / CO<sub>2</sub>)

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1 "Emergency telephone number".

Fire fighters should wear appropriate personal protective equipment.

---

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

**6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

**6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

**6.4. Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

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**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

**7.2. Conditions for safe storage, including any incompatibilities**

*Recommended storage material:* Keep only in original packaging.

*Storage temperature:* Refrigerator, 2 to 8°C  
*Incompatible materials:* Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**7.3. Specific end use(s)**

This product should only be used for applications quoted in section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

No substances are listed in any provincial list of substances with an occupational exposure limit.

**8.2. Exposure controls**

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:* Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:* There are no exposure scenarios implemented for this product.

*Exposure limits:* Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:* The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:* Wash hands after use.


*Measures to avoid environmental exposure:* No specific requirements.

**Individual protection measures, such as personal protective equipment**


*Generally:* Use only protective equipment with a recognized certification mark, e.g. the UL mark.

*Respiratory Equipment:*  
No specific requirements


*Skin protection:*

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	-	-	EN374-2	

*Eye protection:*

Type	Standards	
Safety glasses	EN166	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Liquid
<i>Colour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour threshold (ppm):</i>	Testing not relevant or not possible due to the nature of the product.
<i>pH:</i>	7.8
<i>Density (g/cm<sup>3</sup>):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Kinematic viscosity:</i>	Testing not relevant or not possible due to the nature of the product.

#### Phase changes

<i>Melting point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Boiling point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Vapour pressure:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Relative vapour density:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Decomposition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Evaporation rate (n-butylacetate = 100):</i>	

#### Data on fire and explosion hazards

<i>Flash point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Flammability (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Auto-ignition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Explosion limits (% v/v):</i>	Testing not relevant or not possible due to the nature of the product.

#### Solubility

<i>Solubility in water:</i>	Testing not relevant or not possible due to the nature of the product.
<i>n-octanol/water coefficient (LogKow):</i>	Testing not relevant or not possible due to the nature of the product.

*Solubility in fat (g/L):* Testing not relevant or not possible due to the nature of the product.

**9.2. Other information**

*Other physical and chemical parameters:* No data available.

**SECTION 10: STABILITY AND REACTIVITY**

**10.1. Reactivity**

No data available.

**10.2. Chemical stability**

The product is stable under the conditions, noted in section 7 “Handling and storage”.

**10.3. Possibility of hazardous reactions**

None known.

**10.4. Conditions to avoid**

None known.

**10.5. Incompatible materials**

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**10.6. Hazardous decomposition products**

The product is not degraded when used as specified in section 1.

**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1. Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.

**Skin corrosion/irritation**

Based on available data, the classification criteria are not met.

**Serious eye damage/irritation**

Based on available data, the classification criteria are not met.

**Respiratory sensitisation**

Based on available data, the classification criteria are not met.

**Skin sensitisation**

Based on available data, the classification criteria are not met.

**Germ cell mutagenicity**

Based on available data, the classification criteria are not met.

**Carcinogenicity**

Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**STOT-repeated exposure**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Long term effects**



None known.

**Other information**

None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

No data available.

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. Other adverse effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

None of the components are listed

**Specific labelling**

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

**SECTION 14: TRANSPORT INFORMATION**

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
TDG	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

**Additional information**

Not dangerous goods according to TDG, IATA and IMDG.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No data available.

**SECTION 15: REGULATORY INFORMATION**

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**15.2. Canadian lists**

*DSL / NDSL:* None of the components are listed

**15.4. Restrictions for application**

Restricted to professional users.

**15.5. Demands for specific education**

No specific requirements.

**Additional information**

Not applicable.

**15.7. Chemical safety assessment**

No

**Sources**

Hazardous Products Regulations (SOR/2022-272)

**SECTION 16: OTHER INFORMATION**

**The full text of identified uses as mentioned in section 1**

None known.

**Abbreviations and acronyms**

- ANSI = American National Standards Institute
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- CAS = Chemical Abstracts Service
- DSL = Domestic Substances List
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- HHNOC = Health Hazards Not Otherwise Classified
- IARC = International Agency for Research on Cancer
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NDSL = Non-domestic substances list
- OECD = Organisation for Economic Co-operation and Development
- PBT = Persistent, Bioaccumulative and Toxic
- PHNOC = Physical Hazards Not Otherwise Classified
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- SCL = A specific concentration limit.
- SOR = Statutory Orders and Regulations
- STEL = Short-term exposure limits
- STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
- STOT-SE = Specific Target Organ Toxicity - Single Exposure
- TDG = Transportation of Dangerous Goods
- TWA = Time weighted average
- UN = United Nations
- UVBC = Unknown or variable composition, complex reaction products or of biological materials
- VOC = Volatile Organic Compound
- vPvB = Very Persistent and Very Bioaccumulative
- WHIMS = Workplace Hazardous Materials Information System

**Additional information**

A safety data sheet is not required for this product. This safety data sheet has been created on a

voluntary basis to distribute relevant information.

**The safety data sheet is validated by**

Vennila Vengadessin

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en

SAFETY DATA SHEET

# Polyvalent Positive Control "ABCDFG"

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

*Trade name:* Polyvalent Positive Control "ABCDFG"  
*Product no.:* PL040C

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Laboratory use  
 Restricted to professional users.  
*Uses advised against :* None known.

### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **Inter Medico**  
 50 Valleywood Drive  
 L3R 6E9 Markham, Ontario  
 Canada  
 Tel: 905-470-2520  
 Toll free: (English) 800-387-9643; (French) 800-268-1150  
 Fax: 905-470-2381  
<https://www.inter-medico.com/>

*Contact person:* Technical Support  
*E-mail:* technical@inter-medico.com  
*SDS date:* 2024-01-17  
*SDS Version:* 1.0

### 1.4. Emergency telephone number

In an emergency call 911  
 Alberta / Northwestern Territories (PADIS): 1-800-332-1414  
 British Columbia (DPIC): 1-800-567-8911  
 Manitoba: 1-855-7POISON (1-855-776-4766)  
 New Brunswick: 911  
 Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161  
 Ontario (OPC): 1-800-268-9017  
 Québec (CAPQ): 1-800-463-5060  
 Saskatchewan (PADIS): 1-866-454-1212  
 Yukon Territory: (867) 393-8700  
 Transport emergencies: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or \*666 on a cellular phone (24 hours)  
 See also section 4 "First aid measures".

## SECTION 2: HAZARD(S) IDENTIFICATION

### 2.1. Classification of the substance or mixture

Not classified according to WHMIS 2022

### 2.2. Label elements

<i>Hazard pictogram(s):</i>	Not applicable.
<i>Signal word:</i>	Not applicable.
<i>Hazard statement(s):</i>	
<i>Precautionary statement(s):</i>	
<i>General:</i>	-
<i>Prevention:</i>	-
<i>Response:</i>	-
<i>Storage:</i>	-
<i>Disposal:</i>	-
<i>Hazardous substances:</i>	None known.
<i>Additional labelling:</i>	Not applicable.

**2.3. Other hazards**

<i>Additional warnings:</i>	This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.
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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable. This product is a mixture.

**3.2. Mixtures**

Does not contain any substances required to report

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

-

**SECTION 4: FIRST-AID MEASURES**

**4.1. Description of first aid measures**

<i>General information:</i>	If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.
<i>Inhalation:</i>	In case of discomfort: bring the person into fresh air.
<i>Skin contact:</i>	Upon irritation: rinse with water. In the event of continued irritation, seek medical assistance.
<i>Eye contact:</i>	If in eyes: Flush eyes with plenty of water or salt water (20-30 °C) and continue until irritation stops. Remove contact lenses.
<i>Ingestion:</i>	Rinse and flush mouth thoroughly and consume large quantities of water. In case of continued discomfort: seek medical assistance and bring this safety data sheet.
<i>Burns:</i>	Not applicable.

**4.2. Most important symptoms and effects, both acute and delayed**

None known.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**Information to medics**

Bring this safety data sheet or the label from this product.

**SECTION 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

Not applicable.

**5.2. Special hazards arising from the substance or mixture**

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1 "Emergency telephone number".

Fire fighters should wear appropriate personal protective equipment.

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation, especially in confined areas.

Contaminated areas may be slippery.

**6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc.

Keep unauthorized persons away from the spill

**6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

**6.4. Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

**7.2. Conditions for safe storage, including any incompatibilities**

*Recommended storage material:* Keep only in original packaging.

*Storage temperature:* Refrigerator, 2 to 8°C

*Incompatible materials:* Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**7.3. Specific end use(s)**

This product should only be used for applications quoted in section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

No substances are listed in any provincial list of substances with an occupational exposure limit.

**8.2. Exposure controls**

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:* Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:* There are no exposure scenarios implemented for this product.

*Exposure limits:* Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:* The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:* Wash hands after use.


*Measures to avoid environmental exposure:* No specific requirements.

**Individual protection measures, such as personal protective equipment**


*Generally:* Use only protective equipment with a recognized certification mark, e.g. the UL mark.

*Respiratory Equipment:*  
No specific requirements


*Skin protection:*

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	-	-	EN374-2	

*Eye protection:*

Type	Standards	
Safety glasses	EN166	

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<i>Physical state:</i>	Liquid
<i>Colour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour threshold (ppm):</i>	Testing not relevant or not possible due to the nature of the product.
<i>pH:</i>	6.5
<i>Density (g/cm<sup>3</sup>):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Kinematic viscosity:</i>	Testing not relevant or not possible due to the nature of the product.

### Phase changes

<i>Melting point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Boiling point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Vapour pressure:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Relative vapour density:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Decomposition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Evaporation rate (n-butylacetate = 100):</i>	

### Data on fire and explosion hazards

<i>Flash point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Flammability (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Auto-ignition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Explosion limits (% v/v):</i>	Testing not relevant or not possible due to the nature of the product.

### Solubility

<i>Solubility in water:</i>	Testing not relevant or not possible due to the nature of the product.
<i>n-octanol/water coefficient (LogKow):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Solubility in fat (g/L):</i>	Testing not relevant or not possible due to the nature of the product.

### 9.2. Other information

<i>Other physical and chemical</i>	No data available.
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*parameters:*

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Skin sensitisation

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

Based on available data, the classification criteria are not met.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Long term effects

None known.

#### Other information

None known.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

No data available.

### 12.2. Persistence and degradability

No data available.

### 12.3. Bioaccumulative potential

No data available.

### 12.4. Mobility in soil

No data available.

### 12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

### 12.6. Other adverse effects

None known.

## SECTION 13: DISPOSAL CONSIDERATIONS

### Waste treatment methods

None of the components are listed

### Specific labelling

### Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
TDG	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to TDG, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

**15.2. Canadian lists**

*DSL / NDSL:* None of the components are listed

**15.4. Restrictions for application**

Restricted to professional users.

**15.5. Demands for specific education**

No specific requirements.

**Additional information**

Not applicable.

**15.7. Chemical safety assessment**

No

**Sources**

Hazardous Products Regulations (SOR/2022-272)

**SECTION 16: OTHER INFORMATION**

**The full text of identified uses as mentioned in section 1**

None known.

**Abbreviations and acronyms**

- ANSI = American National Standards Institute
- ATE = Acute Toxicity Estimate
- BCF = Bioconcentration Factor
- CAS = Chemical Abstracts Service
- DSL = Domestic Substances List
- GHS = Globally Harmonized System of Classification and Labelling of Chemicals
- HHNOC = Health Hazards Not Otherwise Classified
- IARC = International Agency for Research on Cancer
- IATA = International Air Transport Association
- IMDG = International Maritime Dangerous Goods
- LogPow = logarithm of the octanol/water partition coefficient
- MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
- NDSL = Non-domestic substances list
- OECD = Organisation for Economic Co-operation and Development
- PBT = Persistent, Bioaccumulative and Toxic
- PHNOC = Physical Hazards Not Otherwise Classified
- RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
- SCL = A specific concentration limit.
- SOR = Statutory Orders and Regulations
- STEL = Short-term exposure limits
- STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
- STOT-SE = Specific Target Organ Toxicity - Single Exposure
- TDG = Transportation of Dangerous Goods
- TWA = Time weighted average
- UN = United Nations
- UVBC = Unknown or variable composition, complex reaction products or of biological materials
- VOC = Volatile Organic Compound
- vPvB = Very Persistent and Very Bioaccumulative
- WHIMS = Workplace Hazardous Materials Information System

**Additional information**

A safety data sheet is not required for this product. This safety data sheet has been created on a voluntary basis to distribute relevant information.

**The safety data sheet is validated by**

Vennila Vengadessin

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en

SAFETY DATA SHEET

# Particle Suspension: Group A, Group B, Group C, Group D, Group F, Group G

## SECTION 1: IDENTIFICATION

### 1.1. Product identifier

*Trade name:* Particle Suspension: Group A, Group B, Group C, Group D, Group F, Group G

*Product no.:* PL031C, PL032C, PL033C, PL034C, PL035C, PL036C

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

*Relevant identified uses of the substance or mixture:* Laboratory use  
Restricted to professional users.

*Uses advised against :* None known.

### 1.3. Details of the supplier of the safety data sheet

*Company and address:* **Inter Medico**  
50 Valleywood Drive  
L3R 6E9 Markham, Ontario  
Canada  
Tel: 905-470-2520  
Toll free: (English) 800-387-9643; (French) 800-268-1150  
Fax: 905-470-2381  
<https://www.inter-medico.com/>

*Contact person:* Technical Support  
*E-mail:* [technical@inter-medico.com](mailto:technical@inter-medico.com)

*SDS date:* 2024-01-17

*SDS Version:* 1.0

### 1.4. Emergency telephone number

In an emergency call 911  
Alberta / Northwestern Territories (PADIS): 1-800-332-1414  
British Columbia (DPIC): 1-800-567-8911  
Manitoba: 1-855-7POISON (1-855-776-4766)  
New Brunswick: 911  
Nova Scotia / Prince Edward Island (IWK): 1-800-565-8161  
Ontario (OPC): 1-800-268-9017  
Québec (CAPQ): 1-800-463-5060  
Saskatchewan (PADIS): 1-866-454-1212  
Yukon Territory: (867) 393-8700  
Transport emergencies: Call CANUTEC at 1-888-CAN-UTEC (226-8832), 613-996-6666 or \*666 on a cellular phone (24 hours)  
See also section 4 "First aid measures".

## SECTION 2: HAZARD(S) IDENTIFICATION

Classified according to WHMIS 2022.

**2.1. Classification of the substance or mixture**

Repr. 1B; H360, May damage fertility or the unborn child.

**2.2. Label elements**

*Hazard pictogram(s):*



*Signal word:*

Danger

*Hazard statement(s):*

May damage fertility or the unborn child. (H360)

*Precautionary statement(s):*

*General:*

-

*Prevention:*

Obtain special instructions before use. (P201)  
Wear eye protection/protective gloves/protective clothing. (P280)

*Response:*

IF exposed or concerned: Get medical advice/attention. (P308+P313)

*Storage:*

-

*Disposal:*

Dispose of contents/container in accordance with local regulation (P501)

*Hazardous substances:*

None known.

*Additional labelling:*

Not applicable.

**2.3. Other hazards**

*Additional warnings:*

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**3.1. Substances**

Not applicable. This product is a mixture.

**3.2. Mixtures**

Product/substance	Identifiers	% w/w	Classification	Note
boric acid	CAS No.: 10043-35-3	<0.25%	Repr. 1B, H360	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

**Other information**

-

**SECTION 4: FIRST-AID MEASURES**

**4.1. Description of first aid measures**

*General information:*

If breathing is irregular, drowsiness, loss of consciousness or cramps: Call 911 and give immediate treatment (first aid).  
Contact a doctor if in doubt about the injured person's

<i>Inhalation:</i>	condition or if the symptoms persist. Never give an unconscious person water or other drink. Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.
<i>Skin contact:</i>	Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners. If skin irritation occurs: Get medical advice/attention.
<i>Eye contact:</i>	If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.
<i>Ingestion:</i>	If the person is conscious, rinse the mouth with water and stay with the person. Never give the person anything to drink. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the person lean forward with head down to avoid inhalation of or choking on vomited material.
<i>Burns:</i>	Not applicable.

**4.2. Most important symptoms and effects, both acute and delayed**

None known.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**Information to medics**

Bring this safety data sheet or the label from this product.

**SECTION 5: FIRE-FIGHTING MEASURES**

**5.1. Extinguishing media**

Not applicable.

**5.2. Special hazards arising from the substance or mixture**

Fire will result in dense smoke. Exposure to combustion products may harm your health. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

**5.3. Advice for firefighters**

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact a poison centre in order to obtain further advice. See section 1 "Emergency telephone number".

**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid direct contact with spilled substances.  
Ensure adequate ventilation, especially in confined areas.  
Contaminated areas may be slippery.

**6.2. Environmental precautions**

Avoid discharge to lakes, streams, sewers, etc.  
Keep unauthorized persons away from the spill

**6.3. Methods and material for containment and cleaning up**

Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations.

Wherever possible cleaning should be performed with normal cleaning agents. Avoid use of solvents.

**6.4. Reference to other sections**

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

**SECTION 7: HANDLING AND STORAGE**

**7.1. Precautions for safe handling**

Avoid direct contact with the product.

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

**7.2. Conditions for safe storage, including any incompatibilities**

Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

*Recommended storage material:* Keep only in original packaging.

*Storage temperature:* Refrigerator, 2 to 8°C

*Incompatible materials:* Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

**7.3. Specific end use(s)**

This product should only be used for applications quoted in section 1.2.

**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

**8.1. Control parameters**

BRITISH COLUMBIA

boric acid

Time-Weighted Average Limit (TWA): 2 mg/m<sup>3</sup>

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 6 mg/m<sup>3</sup>

OHS Regulation Part 5: Chemical Agents and Biological Agents.

ONTARIO

boric acid

Time-Weighted Average Limit (TWA): 2 mg/m<sup>3</sup>

Short-Term Exposure Limit (STEL) / Ceiling Limit (C): 6 mg/m<sup>3</sup>

Annotations:

(I) = Inhalable fraction.

Regulation 833 (Control of Exposure to Biological or Chemical Agents) and Ontario Regulation 490/09 (Designated Substances)

QUEBEC

boric acid

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2

Annotations:

Id = Inhalable dust.

Regulation respecting occupational health and safety (Chapter S-2.1, r. 13)



SASKATCHEWAN

boric acid

Long term exposure limit (8 hours) (mg/m<sup>3</sup>): 2

Short term exposure limit (15 minutes) (mg/m<sup>3</sup>): 6

The Occupational Health and Safety Regulations, 2020, Chapter S15.1 Reg 10.

**8.2. Exposure controls**

Compliance with the given occupational exposure limits values should be controlled on a regular basis.

*General recommendations:* Smoking, drinking and consumption of food is not allowed in the work area.

*Exposure scenarios:* There are no exposure scenarios implemented for this product.

*Exposure limits:* Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

*Appropriate technical measures:* The formation of vapours must be kept at a minimum and below current limit values (see above). Installation of a local exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure eyewash and emergency showers are clearly marked. Apply standard precautions during use of the product. Avoid inhalation of vapours.

*Hygiene measures:* In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.


*Measures to avoid environmental exposure:* Keep damming materials near the workplace. If possible, collect spillage during work.

**Individual protection measures, such as personal protective equipment**


*Generally:* Use only protective equipment with a recognized certification mark, e.g. the UL mark.

*Respiratory Equipment:*  
No specific requirements


*Skin protection:*

Recommended	Type/Category	Standards	
Dedicated work clothing should be worn.	-	-	

*Hand protection:*

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards	
Nitrile	-	-	EN374-2	

*Eye protection:*

Type	Standards	
Safety glasses	EN166	

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1. Information on basic physical and chemical properties**

<i>Physical state:</i>	Liquid
<i>Colour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Odour threshold (ppm):</i>	Testing not relevant or not possible due to the nature of the product.
<i>pH:</i>	8
<i>Density (g/cm<sup>3</sup>):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Kinematic viscosity:</i>	Testing not relevant or not possible due to the nature of the product.

**Phase changes**

<i>Melting point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Boiling point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Vapour pressure:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Relative vapour density:</i>	Testing not relevant or not possible due to the nature of the product.
<i>Decomposition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Evaporation rate (n-butylacetate = 100):</i>	

**Data on fire and explosion hazards**

<i>Flash point (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Flammability (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Auto-ignition temperature (°C):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Explosion limits (% v/v):</i>	Testing not relevant or not possible due to the nature of the product.

**Solubility**

<i>Solubility in water:</i>	Testing not relevant or not possible due to the nature of the product.
<i>n-octanol/water coefficient (LogKow):</i>	Testing not relevant or not possible due to the nature of the product.
<i>Solubility in fat (g/L):</i>	Testing not relevant or not possible due to the nature of the product.

**9.2. Other information**

<i>Other physical and chemical</i>	No data available.
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*parameters:*

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## SECTION 10: STABILITY AND REACTIVITY

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### 10.1. Reactivity

No data available.

### 10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

### 10.3. Possibility of hazardous reactions

None known.

### 10.4. Conditions to avoid

None known.

### 10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

### 10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

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## SECTION 11: TOXICOLOGICAL INFORMATION

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### 11.1. Information on toxicological effects

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Skin corrosion/irritation

Based on available data, the classification criteria are not met.

#### Serious eye damage/irritation

Based on available data, the classification criteria are not met.

#### Respiratory sensitisation

Based on available data, the classification criteria are not met.

#### Skin sensitisation

Based on available data, the classification criteria are not met.

#### Germ cell mutagenicity

Based on available data, the classification criteria are not met.

#### Carcinogenicity

Based on available data, the classification criteria are not met.

#### Reproductive toxicity

May damage fertility or the unborn child.

#### STOT-single exposure

Based on available data, the classification criteria are not met.

#### STOT-repeated exposure

Based on available data, the classification criteria are not met.

#### Aspiration hazard

Based on available data, the classification criteria are not met.

#### Long term effects

None known.

#### Other information

None known.

**SECTION 12: ECOLOGICAL INFORMATION**

**12.1. Toxicity**

Product/substance    boric acid  
 Species:                Daphnia, Daphnia magna  
 Compartment:        Freshwater  
 Duration:              48 hours  
 Test:                    LC50  
 Result:                 133 mg/L

Product/substance    boric acid  
 Species:                Fish, Paralichthys olivaceus  
 Compartment:        Marine water  
 Duration:              96 hours  
 Test:                    LC50  
 Result:                 108 mg/L

Product/substance    boric acid  
 Species:                Daphnia, Daphnia magna  
 Compartment:        Freshwater  
 Duration:              21 days  
 Test:                    NOEC  
 Result:                 6000 µg/L

Product/substance    boric acid  
 Species:                Fish, Oncorhynchus mykiss  
 Compartment:        Freshwater  
 Duration:              87 d.  
 Test:                    NOEC  
 Result:                 2100 µg/L

**12.2. Persistence and degradability**

No data available.

**12.3. Bioaccumulative potential**

Product/substance    boric acid  
 Potential                No  
 bioaccumulation:  
 LogKow:                -1.09  
 BCF:                    No data available.

**12.4. Mobility in soil**

No data available.

**12.5. Results of PBT and vPvB assessment**

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

**12.6. Other adverse effects**

None known.

**SECTION 13: DISPOSAL CONSIDERATIONS**

**Waste treatment methods**

None of the components are listed

**Specific labelling**

**Contaminated packing**

Packaging containing residues of the product must be disposed of similarly to the product.

## SECTION 14: TRANSPORT INFORMATION

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
TDG	-	-	-	-	-	-
IMDG	-	-	-	-	-	-
IATA	-	-	-	-	-	-

\* Packing group

\*\* Environmental hazards

### Additional information

Not dangerous goods according to TDG, IATA and IMDG.

### 14.6. Special precautions for user

Not applicable.

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

No data available.

## SECTION 15: REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

### 15.2. Canadian lists

*DSL / NDSL:* boric acid is listed

### 15.4. Restrictions for application

Restricted to professional users.

### 15.5. Demands for specific education

No specific requirements.

### Additional information

Not applicable.

### 15.7. Chemical safety assessment

No

### Sources

Hazardous Products Regulations (SOR/2022-272)

## SECTION 16: OTHER INFORMATION

### Full text of H-phrases as mentioned in section 3

H360, May damage fertility or the unborn child.

### The full text of identified uses as mentioned in section 1

None known.

### Abbreviations and acronyms

ANSI = American National Standards Institute

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

DSL = Domestic Substances List  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HHNOC = Health Hazards Not Otherwise Classified  
IARC = International Agency for Research on Cancer  
IATA = International Air Transport Association  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
NDSL = Non-domestic substances list  
OECD = Organisation for Economic Co-operation and Development  
PBT = Persistent, Bioaccumulative and Toxic  
PHNOC = Physical Hazards Not Otherwise Classified  
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail  
SCL = A specific concentration limit.  
SOR = Statutory Orders and Regulations  
STEL = Short-term exposure limits  
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure  
STOT-SE = Specific Target Organ Toxicity - Single Exposure  
TDG = Transportation of Dangerous Goods  
TWA = Time weighted average  
UN = United Nations  
UVBC = Unknown or variable composition, complex reaction products or of biological materials  
VOC = Volatile Organic Compound  
vPvB = Very Persistent and Very Bioaccumulative  
WHIMS = Workplace Hazardous Materials Information System

**Additional information**

The classification of the mixture in regard of health hazards is in accordance with the calculation methods given by WHMIS 2022

**The safety data sheet is validated by**

Vennila Vengadessin

**Other**

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product.

Information in this safety data sheet cannot be used as a product specification.

Country-language: CA-en