



Tenax Spa

PECTRO NERO

Revision nr.3
Dated 6/7/2022
Printed on 6/7/2022
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Replaced revision:2 (Dated 2/26/2020)

EN

Safety Data Sheet

According to Canadian HPR - WHMIS 2015

1. Identification

1.1. Product identifier

Code: PECTRONERO
Product name: PECTRO NERO

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

Intended use: REVIVER FOR STONES

Identified Uses	Industrial	Professional	Consumer
ADHESIVE SYSTEM/TREATMENT FOR STONE SECTOR	✓	✓	-

1.3. Details of the supplier of the safety data sheet

Name: Tenax Spa
Full address: Via I Maggio, 226
District and Country: 37020 Volargne (VR) Italy
Tel.: +39 045 6887593
Fax: +39 045 6862456
e-mail address of the competent person responsible for the Safety Data Sheet: msds@tenax.it
Supplier: Tenax Usa
7606 Whitehall Executive Center Drive Suite 400, 28273 Charlotte NC, US
Tel. 001 7045831173 - Fax 001 7045833166
info@tenaxusa.com

1.4. Emergency telephone number

For urgent inquiries refer to 24hrs:
Manitoba Poison Centre 1-855-7POISON (1-855-776-4766)
BC Drug and Poison Information Centre (DPIC)
1-800-567-8911 (toll free in BC)
(604) 682-5050 (Greater Vancouver or outside of BC)
Centre antipoison du Québec 1-800-463-5060
IWK Regional Poison Centre
1-800-565-8161 (within NS and PEI only)
(902) 470-8161 (Halifax or outside NS, PEI)
Poison And Drug Information Services (PADIS)
1-800-332-1414 (toll free in Alberta, Northwest Territories)
1-866-454-1212 (toll free in Saskatchewan)
(403) 944-1414 (in Calgary, outside of Alberta, or VOIP users)
Ontario Poison Centre 1-800-268-9017

2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in Canada's Hazardous Products Regulations (HPR) (WHMIS 2015). The product thus requires a safety datasheet.
Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.



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2. Hazards identification ... / >>

Classification and Hazard Statement

Flammable liquid, category 2

Eye irritation, category 2

Skin sensitization, category 1

Hazard pictograms:



Signal words:

Danger

Hazard statements:

H225

Highly flammable liquid and vapour.

H319

Causes serious eye irritation.

H317

May cause an allergic skin reaction.

Precautionary statements:

Prevention:

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P261

Avoid breathing dust / fume / gas / mist / vapours / spray.

P242

Use non-sparking tools.

P233

Keep container tightly closed.

P280

Wear protective gloves / eye protection / face protection.

P264

Wash the hands thoroughly after handling.

P240

Ground and bond container and receiving equipment.

P243

Take action to prevent static discharges.

P241

Use explosion-proof [electrical / ventilating / lighting / . . .] equipment.

P272

Contaminated work clothing should not be allowed out of the workplace.

Response:

P305+P351+P338

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P303+P361+P353

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].

P333+P313

If skin irritation or rash occurs: Get medical advice / attention.

P337+P313

If eye irritation persists: Get medical advice / attention.

P362+P364

Take off contaminated clothing and wash it before reuse.

P370+P378

In case of fire: use CO₂, sand, powder to extinguish.

Storage:

P403+P235

Store in a well-ventilated place. Keep cool.

Disposal:

P501

Dispose of contents / container according to applicable law.

2.2. Other hazards

Information not available

3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification

x = Conc. % (w/w)

Classification:

1-METHOXY-2-PROPANOL

MONOPROPYLENE GLYCOL METHYL ETHER

CAS 107-98-2 $7.5 \leq x < 8.5$

Flammable liquid, category 3 H226, Specific target organ toxicity - single exposure, category 3 H336

REACH Reg. 01-2119457435-35

POLYDIMETHYLSILOXANE WITH AMINOALKYLIC GROUPS

POLYDIMETHYLSILOXANE WITH AMINOALKYLIC GROUPS

CAS 67923-07-3 $2.5 \leq x < 3$

Serious eye damage, category 1 H318, Skin irritation, category 2 H315

METHYLETHYLKETONE

2-BUTANONE

MEK

BUTANONE

CAS 78-93-3 $0.7 \leq x < 1$

Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific target organ toxicity - single exposure, category 3 H336

REACH Reg. 01-2119457290-43-XXXX



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3. Composition/information on ingredients ... / >>

ACID BLACK 172

ACID BLACK 172

CAS 57693-14-8 $0.4 \leq x < 0.7$

Eye irritation, category 2 H319, Skin sensitization, category 1 H317,
Hazardous to the aquatic environment, chronic toxicity, category 2 H411

REACH Reg. 01-2119969289-17

Octamethylcyclotetrasiloxane

Octamethylcyclotetrasiloxane

CAS 556-67-2 $0 \leq x < 0.025$

Flammable liquid, category 3 H226, Reproductive toxicity, category 2 H361,
Hazardous to the aquatic environment, chronic toxicity, category 1 H410
M=10

REACH Reg. 01-2119529238-36-XXXX

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

The full wording of hazard (H) phrases is given in section 16 of the sheet.

4. First-aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

INGESTION: Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

INHALATION: Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

5. Fire-fighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT

Extinguishing substances are: carbon dioxide, foam, chemical powder. For product loss or leakage that has not caught fire, water spray can be used to disperse flammable vapours and protect those trying to stem the leak.

UNSUITABLE EXTINGUISHING EQUIPMENT

Do not use jets of water. Water is not effective for putting out fires but can be used to cool containers exposed to flames to prevent explosions.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Excess pressure may form in containers exposed to fire at a risk of explosion. Do not breathe combustion products.

5.3. Advice for firefighters

GENERAL INFORMATION

Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent



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6. Accidental release measures ... / >>

any contamination of skin, eyes and personal clothing. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

6.3. Methods and material for containment and cleaning up

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

7. Handling and storage

7.1. Precautions for safe handling

Keep away from heat, sparks and naked flames; do not smoke or use matches or lighters. Without adequate ventilation, vapours may accumulate at ground level and, if ignited, catch fire even at a distance, with the danger of backfire. Avoid bunching of electrostatic charges. When performing transfer operations involving large containers, connect to an earthing system and wear antistatic footwear. Vigorous stirring and flow through the tubes and equipment may cause the formation and accumulation of electrostatic charges. In order to avoid the risk of fires and explosions, never use compressed air when handling. Open containers with caution as they may be pressurised. Do not eat, drink or smoke during use. Avoid leakage of the product into the environment.

7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Store in a cool and well ventilated place, keep far away from sources of heat, naked flames and sparks and other sources of ignition. Keep containers away from any incompatible materials, see section 10 for details.

7.3. Specific end use(s)

Information not available

8. Exposure controls/personal protection

8.1. Control parameters

Regulatory References:

EU	OEL EU	Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; Directive (EU) 2017/2398; Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 98/24/EC; Directive 91/322/EEC.
	TLV-ACGIH	ACGIH 2021

ETHANOL

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV-ACGIH	-			1884	1000	
OSHA	USA	1900	1000			

1-METHOXY-2-PROPANOL

Threshold Limit Value

Type	Country	TWA/8h mg/m3	ppm	STEL/15min mg/m3	ppm	Remarks / Observations
TLV-ACGIH	-	184	50	368	100	
OEL	EU	375	100	568	150	SKIN



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8. Exposure controls/personal protection ... / >>

METHYLETHYLKETONE

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min		Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	590	200	885	300	
OEL	EU	600	200	900	300	
OSHA	USA	590	200			

Legend:

(C) = CEILING ; INHAL = Inhalable Fraction ; RESP = Respirable Fraction ; THORA = Thoracic Fraction.

8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration. Personal protective equipment must comply with current regulations.

HAND PROTECTION

Protect hands with category III work gloves (OSHA 29 CFR 1910.138).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear. Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (OSHA 29 CFR 1910.133, CSA Standard CAN/CSA-Z94.3-92).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, wear a mask with a NIOSH certified filter, whose limit of use will be defined by the manufacturer (NIOSH 42 CFR 84, OSHA 29 CFR 1910.134, CSA Standard Z94.4-02). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus or external air-intake breathing apparatus. For a correct choice of respiratory protection device, see standard NIOSH 42 CFR 84, OSHA 29 CFR 1910.134, CSA Standard Z94.4-02.

ENVIRONMENTAL EXPOSURE CONTROLS

The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	black	
Odour	typical	
Odour threshold	Not available	
pH	Not available	Reason for missing data: substance/mixture is non-polar/aprotic (eg: an organic solvent mixture)
Melting point / freezing point	Not available	
Initial boiling point	> 35 °C (95 °F)	
Boiling range	Not available	
Flash point	< 23 °C (73,4 °F)	
Evaporation rate	Not available	
Flammability (solid, gas)	Not available	
Lower inflammability limit	Not available	
Upper inflammability limit	Not available	
Lower explosive limit	Not available	
Upper explosive limit	Not available	
Vapour pressure	Not available	
Vapour density	Not available	
Relative density	0.83 g/cm3	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not available	
Auto-ignition temperature	Not available	
Decomposition temperature	Not available	
Viscosity	Not available	



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9. Physical and chemical properties ... / >>

Explosive properties Not available
Oxidising properties Not available
9.2. Other information

Information not available

10. Stability and reactivity

10.1. Reactivity

There are no particular risks of reaction with other substances in normal conditions of use.

1-METHOXY-2-PROPANOL

Dissolves various plastic materials.Stable in normal conditions of use and storage.

Absorbs and dissolves in water and in organic solvents. With air it may slowly form explosive peroxides.

METHYLETHYLKETONE

Reacts with: light metals,strong oxidants.Attacks various types of plastic materials.Decomposes under the effect of heat.

10.2. Chemical stability

The product is stable in normal conditions of use and storage.

10.3. Possibility of hazardous reactions

The vapours may also form explosive mixtures with the air.

1-METHOXY-2-PROPANOL

May react dangerously with: strong oxidising agents,strong acids.

METHYLETHYLKETONE

May form peroxides with: air,light,strong oxidising agents.Risk of explosion on contact with: hydrogen peroxide,nitric acid,sulphuric acid.May react dangerously with: oxidising agents,trichloromethane,alkalis.Forms explosive mixtures with: air.

10.4. Conditions to avoid

Avoid overheating. Avoid bunching of electrostatic charges. Avoid all sources of ignition.

1-METHOXY-2-PROPANOL

Avoid exposure to: air.

METHYLETHYLKETONE

Avoid exposure to: sources of heat.

10.5. Incompatible materials

Octamethylcyclotetrasiloxane

Strong oxidizing agents

1-METHOXY-2-PROPANOL

Incompatible with: oxidising substances,strong acids,alkaline metals.

METHYLETHYLKETONE

Incompatible with: strong oxidants,inorganic acids,ammonia,copper,chloroform.

10.6. Hazardous decomposition products

In the event of thermal decomposition or fire, gases and vapours that are potentially dangerous to health may be released.

Octamethylcyclotetrasiloxane

Thermal decomposition or combustion can release carbon oxides and other toxic gases and vapors. Amorphous silica.

11. Toxicological information

In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification.

It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.

11.1. Information on toxicological effects

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure



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11. Toxicological information ... / >>

1-METHOXY-2-PROPANOL

WORKERS: inhalation; contact with the skin.

POPULATION: ingestion of contaminated food or water; inhalation of ambient air; contact with the skin of products containing the substance.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

1-METHOXY-2-PROPANOL

The main route of entry is the skin, whereas the respiratory route is less important due to the low vapour pressure of the product.

Above 100 ppm causes irritation of the eye, nose and oropharynx mucous membranes. At 1000 ppm, disturbance of equilibrium and severe eye irritation can be noticed. Clinical and biological examinations carried out on exposed volunteers revealed no anomalies.

Acetate produces greater skin and eye irritation with direct contact. No chronic effects on humans have been reported.

Interactive effects

Information not available

ACUTE TOXICITY

Octamethylcyclotetrasiloxane

LD50 (Oral): > 4800 mg/kg Ratto

LD50 (Dermal): > 2375 mg/kg Ratto

LC50 (Inhalation mists/powders): 36 mg/l/4h Ratto

1-METHOXY-2-PROPANOL

LD50 (Oral): 4016 mg/kg ratto

LD50 (Dermal): 2000 mg/kg ratto

LC50 (Inhalation vapours): 7000 ppm/4h ratto 6h

METHYLETHYLKETONE

LD50 (Oral): 2737 mg/kg Rat

LD50 (Dermal): 6480 mg/kg Rabbit

LC50 (Inhalation vapours): 23.5 mg/l/8h Rat

ACID BLACK 172

LD50 (Dermal): > 2000 mg/kg

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Carcinogenicity Assessment:

64-17-5

ETHANOL

ACGIH:: A3

IARC:1

107-98-2

1-METHOXY-2-PROPANOL

ACGIH:: A4

111-76-2

2-BUTOXYETHANOL

ACGIH:: A3

IARC:3



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11. Toxicological information ... / >>

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Octamethylcyclotetrasiloxane

In rats, a significant reduction in fertility was observed after exposure by inhalation to D4 (500, 700 ppm). There are currently no indications that the effects may have direct relevance to humans. D4 had no influence on male reproductive capacity and showed no developmental effects.

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD

Does not meet the classification criteria for this hazard class

12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

Octamethylcyclotetrasiloxane

LC50 - for Fish	> 0.022 mg/l/96h <i>Trota iridea</i>
EC50 - for Crustacea	> 0.015 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	> 0.022 mg/l/72h <i>Pseudokirchneriella subcapitata</i>
Chronic NOEC for Fish	> 0.0044 mg/l <i>Trota iridea</i>
Chronic NOEC for Crustacea	> 0.0079 mg/l <i>Daphnia magna</i>

1-METHOXY-2-PROPANOL

LC50 - for Fish	20800 mg/l/96h <i>Pimephales promelas</i>
EC50 - for Crustacea	> 21000 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	1000 mg/l/72h <i>Selenastrum capricornutum</i>

METHYLETHYLKETONE

LC50 - for Fish	2993 mg/l/96h <i>Pimephales Promelas</i>
EC50 - for Crustacea	308 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	2029 mg/l/96h <i>Pseudokirchneriella subcapitata</i>

ACID BLACK 172

LC50 - for Fish	3 mg/l/96h <i>Danio rerio</i>
EC50 - for Crustacea	30.2 mg/l/48h <i>Daphnia magna</i>
EC50 - for Algae / Aquatic Plants	73.8 mg/l/72h <i>Lemna minor</i>

12.2. Persistence and degradability



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12. Ecological information ... / >>

Octamethylcyclotetrasiloxane
NOT rapidly degradable

1-METHOXY-2-PROPANOL

Solubility in water 1000 - 10000 mg/l
Rapidly degradable

METHYLETHYLKETONE

Solubility in water > 10000 mg/l
Rapidly degradable

12.3. Bioaccumulative potential

Octamethylcyclotetrasiloxane

Partition coefficient: n-octanol/water 6.49 Log Kow 25°C

1-METHOXY-2-PROPANOL

Partition coefficient: n-octanol/water < 1

BCF < 2

METHYLETHYLKETONE

Partition coefficient: n-octanol/water 0.3

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage \geq than 0,1%.

12.6. Other adverse effects

Information not available

13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Neat product residues should be considered special non-hazardous waste.

Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

CONTAMINATED PACKAGING

Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

14. Transport information

14.1. UN number

ADR / RID, IMDG, IATA: 1993

14.2. UN proper shipping name

ADR / RID: FLAMMABLE LIQUID, N.O.S. (ETHANOL; 1-METHOXY-2-PROPANOL)
IMDG: FLAMMABLE LIQUID, N.O.S. (ETHANOL; 1-METHOXY-2-PROPANOL)
IATA: FLAMMABLE LIQUID, N.O.S. (ETHANOL; 1-METHOXY-2-PROPANOL)



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14. Transport information ... / >>

14.3. Transport hazard class(es)

ADR / RID: Class: 3 Label: 3



IMDG: Class: 3 Label: 3



IATA: Class: 3 Label: 3



14.4. Packing group

ADR / RID, IMDG, IATA: II

14.5. Environmental hazards

ADR / RID: NO
IMDG: NO
IATA: NO

14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 1 L	Tunnel restriction code: (D/E)
	Special provision: 274, 601, 640C		
IMDG:	EMS: F-E, S-E	Limited Quantities: 1 L	
IATA:	Cargo:	Maximum quantity: 60 L	Packaging instructions: 364
	Pass.:	Maximum quantity: 5 L	Packaging instructions: 353
	Special provision:	A3	

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

Information not relevant

15. Regulatory information

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

Substances subject to the Rotterdam Convention: _____
None

Canadian Regulatory Information _____

This product has been classified in accordance with the hazard criteria of the Hazardous Products Regulations (HPR).

Safety Data Sheet according to WHMIS 2015.

Inventory Status of the contained substance/s. _____

All ingredients are listed in DSL.

16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H361	Suspected of damaging fertility or the unborn child.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H410	Very toxic to aquatic life with long lasting effects.



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16. Other information ... / >>

H411 Toxic to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CLP: Regulation (EC) 1272/2008
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PEL: Predicted exposure level
- REACH: Regulation (EC) 1907/2006
- RID: Regulation concerning the international transport of dangerous goods by train
- TLV: Threshold Limit Value
- TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure.
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.

GENERAL BIBLIOGRAPHY:

- GHS rev. 5
- The Merck Index. 10th Edition
- Handling Chemical Safety
- Niosh - Registry of Toxic Effects of Chemical Substances
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy
- Hazard Products Regulation (HPR)
- WHMIS 2015
- ONTARIO R.R.O. 1990, Regulation 883 (version July 2016)
- IARC website
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act

Note for users:

The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses.

Provide appointed staff with adequate training on how to use chemical products.

CALCULATION METHODS FOR CLASSIFICATION

Product classification derives from criteria established by the Canada's Hazardous Products Regulations (HPR) (WHMIS 2015), unless determined otherwise in Section 11 and 12. The data for evaluation of chemical-physical properties are reported in section 9.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.