



Revision nr.5 Dated 9/11/2024 Printed on 9/11/2024 Page n. 1 / 11 Replaced revision:4 (Dated 8/30/2024)

# Safety Data Sheet

According to Canadian HPR - WHMIS 2015

.1. Product identifier			
Code:	PECTRO		
Product name	PECTRO		
2. Relevant identified uses of the substance or mixtu	re and uses ad	vised against	
Intended use	Brightner for	stones.	
Identified Uses	Industrial	Professional	Consumer
ADHESIVE SYSTEM/TREATMENT FOR STONE			
SECTOR	$\checkmark$	$\checkmark$	-
3. Details of the supplier of the safety data sheet			
Name	TENAX SPA		
Full address	Via I Maggio		
District and Country	37020	Volargne	(VR)
	Tel.	Italy +39 045 6887593	
	Fax	+39 045 6862456	
e-mail address of the competent person responsible for the Safety Data Sheet	msds@tenax	c.it	
Supplier:	Tenax Usa		
	7606 Whiteh	all Executive Center Drive S	Suite 400, 28273 Charlotte NC, US
	Tel. 001 7045 info@tenaxu	5831173 - Fax 001 70458331 sa.com	66
.4. Emergency telephone number			
For urgent inquiries refer to	24hrs:		
	Manitoba Po	ison Centre 1-855-7POISON	l (1-855-776-4766)
	BC Drug and	Poison Information Centre	(DPIC)
	1-800-567-89	11 (toll free in BC)	
	(604) 682-50	50 (Greater Vancouver or or	utside of BC)
	Centre antip	oison du Québec 1-800-463	-5060
	IWK Regiona	al Poison Centre	
		61 (within NS and PEI only)	
	(902) 470-810	61 (Halifax or outside NS, P	EI)
		Drug Information Services	
		14 (toll free in Alberta, Nort	
		12 (toll free in Saskatchewa 14 (in Calgary, outside of Al	
		on Centre 1-800-268-9017	· · · ·

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.

Tenax		NAX SPA ECTRO	Revision nr.5 EN Dated 9/11/2024 Printed on 9/11/2024 Page n. 2 / 11 Replaced revision:4 (Dated 8/30/2024)
2. Hazards identification	/>>		
Classification and Hazard S	Statement		
Flammable liquid, categ Eye irritation, category 2 Hazard pictograms:	ory 2	Highly flammable liquid and va Causes serious eye irritation.	apour.
	•		
Signal words:	Danger		
Hazard statements: H225 H319	Highly flammable liquid an Causes serious eye irritati		
Precautionary statements: Prevention: <b>P210</b>	Keen away from heat hat	aurfaces, aparka, apar flamos and other ign	ition courses. No smoking
P210 P242 P233 P280 P264	Use non-sparking tools. Keep container tightly clos	ye protection / face protection.	nuon sources. No smoking.
P240 P243 P241 Response:	Take action to prevent stat	er and receiving equipment. tic discharges. rical / ventilating / lighting / ] equipment.	
P305+P351+P338 P303+P361+P353 P337+P313	do. Continue rinsing. IF ON SKIN (or hair): Take	asly with water for several minutes. Remove e off immediately all contaminated clothing. I et medical advice / attention.	
P370+P378 Storage:	In case of fire: use CO2, s		
P403+P235 Disposal:	Store in a well-ventilated p		
P501 2.2. Other hazards	Dispose of contents / conta	ainer according to applicable law.	
Information not available			
3. Composition/inform	ation on ingredients		
3.2. Mixtures	5		
Contains:			
Identification	x = Conc. % (w/w)	Classification:	
	E, (((3-((2-AMINOETHYL)AMIN 3 2.5 ≤ x < 3	NO)PROPYL)SILYLIDYNE)TRIS(OXY))TR IO)PROPYL)SILYLIDYNE)TRIS(OXY))TRIS Serious eye damage, category 1 H318,	S-, METHOXY-TERMINATED
BUTANONE CAS 78-93-3	0.7 ≤ x < 1	Flammable liquid, category 2 H225, Ey target organ toxicity - single exposure	
OCTAMETHYLCYCLOTET OCTAMETHYLCYCLOTET CAS 556-67-2		Flammable liquid, category 3 H226, Re Hazardous to the aquatic environment M=10	productive toxicity, category 2 H361,
Any concentration shown a	s a range is to protect confident	tiality or is due to batch variation.	
The full wording of hazard (	H) phrases is given in section 1	6 of the sheet.	
C .			

\* METHANOL, OCTAMETHYL CYCLOTETRASILOXANE: present as impurities



# 4. First-aid measures

4.1. Description of first aid measures

In case of doubt or in the presence of symptoms contact a doctor and show him this document.

In case of more severe symptoms, ask for immediate medical aid.

EYES: Remove, if present, contact lenses if the situation allows you to do so easily. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. Get medical advice/attention.

SKIN: Take off contaminated clothing. Wash immediately and thoroughly with running water (and soap if possible). Get medical advice. Avoid further contact with contaminated clothing.

INGESTION: Do not induce vomiting unless explicitly authorised by a doctor. Do not give anything by mouth to an unconscious person. Get medical advice/attention.

INHALATION: Remove victim to fresh air, away from the accident scene. Get medical advice/attention.

Rescuer protection

It is good practice for rescuers lending support to a person who has been exposed to a chemical substance or to a mixture to wear personal protective equipment. The nature of such protection depends on the hazard level of the substance or mixture, on the type of exposure and on the extent of the contamination. In the absence of other more specific indications, use of disposable gloves in the event of possible contact with body fluids is recommended. For the type of PPE suitable for the characteristics of the substance or mixture, see section 8.

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

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

DELAYED EFFECTS: Based on the information currently available, there are no known cases of delayed effects following exposure to this product.

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

If symptoms occur, whether acute or delayed, consult a doctor.

Means to have available in the workplace for specific and immediate treatment

Running water for skin and eye wash.

# 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.

Combustion products: mainly COx

## 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).



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# 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 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) 2022/431; 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 2023

				ETHYL SILICAT	E		
Threshold Limit \	/alue						
Туре	Country	TWA/8h		STEL/15min		Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	85	10				
OEL	EU	44	5				
OSHA	USA	850	100				



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

hreshold Limit V Type	/alue					
Туре						
	Country	TWA/8h		STEL/15mir	า	Remarks / Observations
	· · · · ·	mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	262	200	328	250	SKIN
OEL	EU	260	200			
OSHA	USA	260	200			
	00.1	200	200			
reshold Limit V	aluo			ETHANOL		
Туре	Country	TWA/8h		STEL/15mir	ר ר	Remarks / Observations
туре	Country		nnm			Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-			1884	1000	
OSHA	USA	1900	1000			
reshold Limit V	/aluo			PROPAN-2-OI	_	
		TWA/8h		OTEL // Erei		Romarka / Observations
Туре	Country			STEL/15mir		Remarks / Observations
TIN 4 6 6 11 1		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	492	200	983	400	
OSHA	USA	980	400			
			E	THYL METHYL KE	TONE	
reshold Limit V						
Туре	Country	TWA/8h		STEL/15mir	ו	Remarks / Observations
		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	590	200	885	300	
OEL	EU	600	200	900	300	
OSHA	USA	590	200			
				ACETIC ACID		
reshold Limit V	alue			ACETIC ACIL		
Туре	Country	TWA/8h		STEL/15mir	า	Remarks / Observations
. 71	<b>,</b>	mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-	25	10	37	15	
OEL	EU	25	10	50	20	
OSHA	USA	25	10		20	
			DECAME	THYL CYCLOPEN	TASILOXAN	IE
reshold Limit V		T14(4(0)				
Туре	Country	TWA/8h		STEL/15mir		Remarks / Observations
TIMACOUL		mg/m3	ppm	mg/m3	ppm	
TLV-ACGIH	-		10			
gend:						
•		alable Fraction		espirable Fraction		= Thoracic Fraction.
j = OLILING,			$\cdot$ , $\Lambda \Box OF = R$		, 11004-	
HYL METHYL K	ETONE					
			1		0040	. If
impling methods:	: https://amc	aw.ifa.dguv.de	/substance/met	hoden/105-Butan-2	-one_2016.p	Dat
ological exposure	e index: 2 m	g/I, urine, biolo	gical indicator m	nethyl ethyl ketone.		
Exposure controls	5					
	effective loca		•		•	e equipment, make sure that the workplace is current regulations.
otect hands with e following shou	category III		osing work glov	re material (OSHA :	29 CFR 1910	0.138): compatibility, degradation, permeability
ne. ne work gloves' re n the duration and			ts should be ch	ecked before use, a	as it can be u	npredictable. The gloves' wear time depends



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

## 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.

HAND PROTECTION: Protect hands with work gloves for protection against chemical agents in nitrile or fluoroelastomer (EN 374-1:2016) at least type B or higher based on the risk assessment carried out by the company. Breakthrough time > 480 minutes. Material thickness: NITRILE

short contact > 0.38 mm prolonged contact > 0.55 mm FLUOROELASTOMER short contact > 0.50 mm prolonged contact > 1.50 mm

FACE PROTECTION: Chemical and splash protection visor EN 166 1B 3 in transparent propionate or equivalent protection

# 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties		Value		Information
Appearance		liquid		
Colour		colourless		
Odour		typical		
Odour threshold		not available		
рН		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		12 °C	(53,6 °F)	
Evaporation rate		not available		
Flammability		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		
Explosive properties		not available		
Oxidising properties		not available		
9.2. Other information				
VOC :		91,42 % - 758,74	g/litre	



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# 10. Stability and reactivity

## 10.1. Reactivity

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

#### ETHYL METHYL KETONE

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.

## ETHYL METHYL KETONE

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.

ETHYL METHYL KETONE

Avoid exposure to: sources of heat. 10.5. Incompatible materials

OCTAMETHYLCYCLOTETRASILOXANE Strong oxidizing agents

## ETHYL METHYL KETONE

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

Information not available

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

Information not available

Interactive effects

Information not available

ACUTE TOXICITY



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# 11. Toxicological information ... / >>

OCTAMETHYLCYCLOTETRASILOXANE LD50 (Oral): LD50 (Dermal): LC50 (Inhalation mists/powders):

ETHYL METHYL KETONE LD50 (Oral): LD50 (Dermal): LC50 (Inhalation vapours): > 2375 mg/kg Ratto 36 mg/l/4h Ratto

> 4800 mg/kg Ratto

> 2000 mg/kg Rat 6480 mg/kg Rabbit 23.5 mg/l/8h Rat

#### 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

Does not meet the classification criteria for this hazard class

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
67-63-0	PROPAN-2-OL
	IARC:3

#### REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

## Adverse effects on sexual function and fertility

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

# Tenax

# TENAX SPA PECTRO

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# 12. Ecological information ... / >>

OCTAMETHYLCYCLOTETRASILOXANE	
LC50 - for Fish	> 0.022 mg/l/96h Trota iridea
EC50 - for Crustacea	> 0.015 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	> 0.022 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	> 0.0044 mg/l Trota iridea
Chronic NOEC for Crustacea	> 0.0079 mg/l Daphnia magna
ETHYL METHYL KETONE	
LC50 - for Fish	2993 mg/l/96h Pimephales Promelas
EC50 - for Crustacea	308 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	2029 mg/l/96h Pseudokirchneriella subcapitata
12.2. Persistence and degradability	
OCTAMETHYLCYCLOTETRASILOXANE NOT rapidly degradable ETHYL METHYL KETONE	
Solubility in water Rapidly degradable	> 10000 mg/l
12.3. Bioaccumulative potential	
OCTAMETHYLCYCLOTETRASILOXANE	
Partition coefficient: n-octanol/water	6.49 Log Kow 25°C
ETHYL METHYL KETONE	
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 cor 12.6. Other adverse effects	ntain any PBT or vPvB in percentage ≥ than 0,1%.
Information not available	
13. Disposal considerations	
CONTAMINATED PACKAGING	e considered special non-hazardous waste. ste management firm, in compliance with national and local regulations. ed of in compliance with national waste management regulations.
14. Transport information	
14.1. UN number	
ADR / RID, IMDG, IATA: UN 1993	



Tunnel restriction code: (D/E)

Packaging instructions: 364 Packaging instructions: 353 ΕN

# 14. Transport information ... / >>

# 14.2. UN proper shipping name

ADR / RID:	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
IMDG:	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
IATA:	FLAMMABLE LIQUID, N.O.S. (ETHANOL)

#### 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:

#### 14.5. Environmental hazards

ADR / RID:	NO
IMDG:	not marine pollutant
IATA:	NO

#### 14.6. Special precautions for user

ADR / RID:	HIN - Kemler: 33	Limited Quantities: 1 It	
	Special provision: 274, 6	640C	
IMDG:	EMS: F-E, <u>S-E</u>	Limited Quantities: 1 It	
IATA:	Cargo:	Maximum quantity: 60 L	
	Passengers:	Maximum quantity: 5 L	
	Special provision:	A3	

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

Ш

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.

# 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.

@EPY 11.7.2 - SDS 1004.14



FN

# 16. Other information ... / >>

H336 H410 May cause drowsiness or dizziness.

Very 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: 02 / 03 / 09 / 11.