



Safety Data Sheet according to Canadian HPR (WHMIS 2015)

1. Identification

1.1. Product identifier

Code: **PF298**
 Product name: **WHITE POLYESTER BASE COAT**

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

Intended use: **Paint for wood**

Identified Uses	Industrial	Professional	Consumer
Pertinent description of use:	✓	✓	-
Uses Advised Against			
Do it yourself			

1.3. Details of the supplier of the safety data sheet

Name: **INDUSTRIA CHIMICA ADRIATICA S.P.A.**
 Full address: **Via S. Pertini, 52**
 District and Country: **62012 Civitanova Marche (MC) ITALY**
 Tel.: **+39 0733 8080**
 Fax: **+39 0733 808140**

e-mail address of the competent person responsible for the Safety Data Sheet: **regulatoryaffairs@icaspa.com**

Product distribution by: **INDUSTRIA CHIMICA ADRIATICA S.p.A.**

1.4. Emergency telephone number

For urgent inquiries refer to: **Anti-poison centre – Hospital of Florence (24/24 hours)**
Telephone +39 055 794 7819

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.

Classification and Hazard Statement

Flammable liquid, category 2
 Carcinogenicity, category 2
 Reproductive toxicity, category 2
 Specific target organ toxicity - repeated exposure, category 1

Aspiration hazard, category 1
 Eye irritation, category 2
 Skin irritation, category 2
 Skin sensitization, category 1

Highly flammable liquid and vapour.
 Suspected of causing cancer.
 Suspected of damaging fertility or the unborn child.
 Causes damage to organs through prolonged or repeated exposure.
 May be fatal if swallowed and enters airways.
 Causes serious eye irritation.
 Causes skin irritation.
 May cause an allergic skin reaction.

Hazard pictograms:



Signal words: **Danger**

Hazard statements:
H225 Highly flammable liquid and vapour.
H351 Suspected of causing cancer.

**2. Hazards identification ... / >>**

H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.

Precautionary statements:

Prevention:

P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P233	Keep container tightly closed.
P240	Ground and bond container and receiving equipment.
P241	Use explosion-proof [electrical / ventilating / lighting / . . .] equipment.
P242	Use non-sparking tools.
P243	Take action to prevent static discharges.
P260	Do not breathe dust / fume / gas / mist / vapours / spray.
P261	Avoid breathing dust / fume / gas / mist / vapours / spray.
P264	Wash the hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P272	Contaminated work clothing should not be allowed out of the workplace.
P280	Wear protective gloves / clothing and eye / face protection.

Response:

P301+P310	IF SWALLOWED: immediately call a POISON CENTER or doctor.
P302+P352	IF ON SKIN: wash with plenty of water and soap.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313	IF exposed or concerned: Get medical advice / attention.
P314	Get medical advice / attention if you feel unwell.
P331	Do NOT induce vomiting.
P332+P313	If skin irritation occurs: Get medical advice / attention.
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 chemical powder to extinguish.

Storage:

P403+P235	Store in a well-ventilated place. Keep cool.
P405	Store locked up.

Disposal:

P501	Dispose of contents and container in accordance with local, regional, international regulations.
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2.2. Other hazards

Additional hazards
Information not available

3. Composition/information on ingredients**3.1. Substances**

Information not relevant

3.2. Mixtures**Contains:**

Identification **x = Conc. % (w/w) Classification:**

Styrene

CAS	100-42-5	$10 \leq x < 20$	Flammable liquid, category 3 H226, Reproductive toxicity, category 2 H361, Acute toxicity, category 4 H332, Specific target organ toxicity - repeated exposure, category 1 H372, Aspiration hazard, category 1 H304, Eye irritation, category 2 H319, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H335, Hazardous to the aquatic environment, chronic toxicity, category 3 H412
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Titanium dioxide

CAS	13463-67-7	$5 \leq x < 9$	Carcinogenicity, category 2 H351
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3. Composition/information on ingredients ... / >>

Toluene

CAS 108-88-3 $1 \leq x < 5$ Flammable liquid, category 2 H225, Reproductive toxicity, category 2 H361, Aspiration hazard, category 1 H304, Specific target organ toxicity - repeated exposure, category 2 H373, Skin irritation, category 2 H315, Specific target organ toxicity - single exposure, category 3 H336

Isobutyl acetate

CAS 110-19-0 $1 \leq x < 5$ Flammable liquid, category 2 H225, Specific target organ toxicity - single exposure, category 3 H336

Ethyl acetate

CAS 141-78-6 $0 \leq x < 0.5$ Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific target organ toxicity - single exposure, category 3 H336

Fatty acids, C14-18 and C16-18 unsaturated, maleate

CAS 85711-46-2 $0.1 \leq x < 0.5$ Skin irritation, category 2 H315, Skin sensitization, category 1 H317

Solvent naphtha (petroleum), light aromatic

CAS 64742-95-6 $0 \leq x < 0.5$ Flammable liquid, category 3 H226, Aspiration hazard, category 1 H304, Specific target organ toxicity - single exposure, category 3 H335, Specific target organ toxicity - single exposure, category 3 H336, Hazardous to the aquatic environment, chronic toxicity, category 2 H411

Butanone

ETHYL METHYL KETONE

CAS 78-93-3 $0 \leq x < 0.5$ Flammable liquid, category 2 H225, Eye irritation, category 2 H319, Specific target organ toxicity - single exposure, category 3 H336

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 15 minutes, opening the eyelids fully. If problem persists, seek medical advice.

SKIN: Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention immediately. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention immediately.

INGESTION: Get medical advice/attention immediately. Do not induce vomiting. Do not administer anything not explicitly authorised by a doctor.

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 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. If the product is flammable, use explosion-proof equipment. 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. Vapours may catch fire and an explosion may occur; vapour accumulation is therefore to be avoided by leaving windows and doors open and ensuring good cross ventilation. 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 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:

ONT	Ontario	R.R.O 1990, REGULATION 833
UOP	U.S.A.	Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000.
EU	OEL EU	Directive (EU) 2017/164; Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC; Directive 91/322/EEC.



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

Styrene

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	86	20	170	40
ONT	CAN		35		100
OSHA	USA		100		200 (C)

Toluene

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU	192	50	384	100
OSHA	USA		200		300

Isobutyl acetate

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU		150		
OSHA	USA	700	150		

Ethyl acetate

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
OEL	EU		400		
OSHA	USA	1400	400		

Butanone

Threshold Limit Value

Type	Country	TWA/8h		STEL/15min	
		mg/m3	ppm	mg/m3	ppm
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 class must be chosen according to the limit of use concentration (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

Appearance	liquid
Colour	white
Odour	characteristic
Odour threshold	Not available
pH	Not available
Melting point / freezing point	Not available
Initial boiling point	> 145 °C (293 °F)
Boiling range	Not available
Flash point	-18 ≤ T ≤ 23 °C (-0,4 ≤ T ≤ 73,4 °F)
Evaporation Rate	Not available
Flammability of solids and gases	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	> 1,0000
Relative density	1.45
Solubility	partially soluble
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

Total solids (250°C / 482°F)	72,48 %
VOC :	398.84 g/litre

10. Stability and reactivity

10.1. Reactivity

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

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.

10.4. Conditions to avoid

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

10.5. Incompatible materials

Styrene

Incompatible with: strong oxidising agents,peroxides,Contaminants and catalysts for vinyl polymers,Alkali metal-graphite compounds,strong acids,strong alkalis,copper alloys,copper,aluminium chloride,rubber,brass.

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.

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

**11. Toxicological information** ... / >>

toxicological effects of exposure to the product.

11.1. Information on toxicological effectsMetabolism, 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

Titanium dioxide	
LD50 (Oral)	> 10000 mg/kg Rat
LC50 (Inhalation)	> 6.8 mg/l/4h Rat

Fatty acids, C14-18 and C16-18 unsaturated, maleate	
LD50 (Oral)	> 2000 mg/kg Rat

Solvent naphtha (petroleum), light aromatic	
LD50 (Oral)	> 6800 mg/kg Rat
LD50 (Dermal)	> 3400 mg/kg Rabbit
LC50 (Inhalation)	> 10.2 mg/m ³ /4h Rat

Toluene	
LD50 (Oral)	5580 mg/kg Rat
LD50 (Dermal)	5000 mg/kg Rat
LC50 (Inhalation)	25.7 mg/l/4h Rat

Styrene	
LD50 (Oral)	5000 mg/kg Rat
LD50 (Dermal)	> 2000 mg/kg Rat
LC50 (Inhalation)	11.8 mg/l/4h Rat

Ethyl acetate	
LD50 (Oral)	4934 mg/kg Rat
LD50 (Dermal)	> 20000 mg/kg Rabbit
LC50 (Inhalation)	> 22.5 mg/l/6h Rat

Isobutyl acetate	
LD50 (Oral)	13413 mg/kg Rat
LD50 (Dermal)	> 17400 mg/kg Rabbit
LC50 (Inhalation)	> 23.4 mg/l/4h Rat

Butanone	
LD50 (Oral)	2193 mg/kg Rat
LD50 (Dermal)	> 5000 mg/kg Rabbit
LC50 (Inhalation)	4000 ppm Rat

SKIN CORROSION / IRRITATION

Causes skin irritation

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye irritation

RESPIRATORY OR SKIN SENSITISATION

**11. Toxicological information** ... / >>

Sensitising for the skin

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

CARCINOGENICITY

Suspected of causing cancer

Carcinogenicity Assessment:

100-42-5	Styrene
	IARC:2B
	NTP: Reasonably Anticipated
13463-67-7	Titanium dioxide
	IARC:2B
108-88-3	Toluene
	IARC:3
1330-20-7	Xylene, mixture of isomers
	IARC:3
64-17-5	Ethanol
	IARC:1
100-41-4	Ethylbenzene
	IARC:2B
123-31-9	1,4-dihydroxybenzene
	IARC:3
108-31-6	MALEIC ANHYDRIDE
	ACGIH:: A4

REPRODUCTIVE TOXICITY

Suspected of damaging fertility or the unborn child

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE

Causes damage to organs

ASPIRATION HAZARD

Toxic for aspiration

12. Ecological information

No specific data are available for this product. Handle it according to good working practices. Avoid littering. Do not contaminate soil and waterways. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation. Please take all the proper measures to reduce harmful effects on aquifers.

12.1. Toxicity

Fatty acids, C14-18 and C16-18 unsaturated, maleate

EC50 - for Crustacea > 100 mg/l/48h Daphnia Magna

Toluene

LC50 - for Fish 5.5 mg/l/96h

EC50 - for Crustacea 3.78 mg/l/48h

**12. Ecological information** ... / >>**Styrene**

LC50 - for Fish	4.02 mg/l/96h Fish
EC50 - for Crustacea	4.7 mg/l/48h Daphnia Magna
EC50 - for Algae / Aquatic Plants	4.9 mg/l/72h Algae
Chronic NOEC for Crustacea	1.01 mg/l Daphnia Magna

Ethyl acetate

LC50 - for Fish	230 mg/l/96h Fish
EC50 - for Crustacea	165 mg/l/48h Daphnia magna
Chronic NOEC for Crustacea	2.4 mg/l Daphnia pulex

Isobutyl acetate

LC50 - for Fish	17 mg/l/96h
EC50 - for Crustacea	25 mg/l/48h Daphnia magna
EC50 - for Algae / Aquatic Plants	370 mg/l/72h Alga

Butanone

LC50 - for Fish	2993 mg/l/96h Fish
EC50 - for Crustacea	308 mg/l/48h Daphnia

12.2. Persistence and degradability

Fatty acids, C14-18 and C16-18 unsaturated, maleate
NOT rapidly degradable

Toluene
Rapidly degradable

Styrene
Rapidly degradable

Ethyl acetate
Rapidly degradable

Isobutyl acetate
Rapidly degradable

Butanone
Rapidly degradable

12.3. Bioaccumulative potential

Information not available

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 greater than 0,1%.



12. Ecological information ... / >>

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: 1263

14.2. UN proper shipping name

ADR / RID: PAINT
 IMDG: PAINT
 IATA: PAINT

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 Special Provision: 640D	Limited Quantities: 5 L	Tunnel restriction code: (D/E)
IMDG:	EMS: F-E, S-E	Limited Quantities: 5 L	
IATA:	Cargo: Pass.: Special Instructions:	Maximum quantity: 60 L Maximum quantity: 5 L A3, A72, A192	Packaging instructions: 364 Packaging instructions: 353

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



15. Regulatory information ... / >>

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.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility or the unborn child.
H332	Harmful if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H304	May be fatal if swallowed and enters airways.
H373	May cause damage to organs through prolonged or repeated exposure.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H317	May cause an allergic skin reaction.
H336	May cause drowsiness or dizziness.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CLP: EC Regulation 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
- 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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.