

ΕN

Safety Data Sheet

According to U.S.A. Federal Hazcom 2012



2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200). 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 Serious eye damage, category 1



Signal words:

Danger

Hazard statements: H225 H318

Highly flammable liquid and vapour. Causes serious eye damage.

Precautionary statements:

@EPY 11.1.2 - SDS 1004.14

Highly flammable liquid and vapour. Causes serious eye damage.



2. Hazards identification ... / >>

Prevention:	
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P242	Use only non-sparking tools.
P233	Keep container tightly closed.
P280	Wear protective gloves / eye protection / face protection.
P240	Ground / bond container and receiving equipment.
P243	Take precautionary measures against static discharge.
P241	Use explosion-proof electrical / ventilating / lighting / / equipment.
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 / shower.
P310	Immediately call a POISON CENTER / doctor if you feel unwell.
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

Identification		x = Conc. %	Classification:
ETHANOL CAS EC INDEX REACH Reg.	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	89 ≤ x < 91	Flammable liquid, category 2 H225
0		I AMINOALKYLIC GRO	UPS
CAS EC INDEX METHANOL	67923-07-3	3≤x< 3.5	Serious eye damage, category 1 H318, Skin irritation, category 2 H315
CAS	67-56-1	$0.1 \le x \le 0.4$	Flammable liquid, category 2 H225, Acute toxicity, category 3 H301, Acute toxicity, category 3 H311, Acute toxicity, category 3 H331, Specific target organ toxicity - single exposure, category 1 H370
EC INDEX REACH Reg. Octamethylcy	200-659-6 603-001-00-X 01-2119433307-44 /clotetrasiloxane		
CAS	556-67-2	0 ≤ 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
EC INDEX REACH Reg.	209-136-7 014-018-00-1 01-2119529238-36	-XXXX	
* There is a ba	atch to batch variation	I.	

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

* METHANOL, OCTAMETHYL CYCLOTETRASILOXANE: present as impurities

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



4. First-aid measures ... / >>

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

METHANOL

Methanol (CAS 67-56-1) is readily and rapidly absorbed at all exposure routes and is toxic by all routes. Methanol may cause irritation of the mucosa, as well as nausea, vomiting, headaches, vertigo and visual disorders, including blindness (irreversible damage to the optic nerve), acidosis, spasms, narcosis and coma. There may be a delay in the onset of these effects after exposure.

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. 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:

USA USA	OSHA-PEL CAL/OSHA-PEL	Occupational Exposure Limits - Limits for Air Contaminants TABLE Z-1-1910.1000. California Division of Occupational Safety and Health (Cal-OSHA) Permissible Exposure Limits (PELs).
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 2022

	METHANOL						
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-	262	200	328	250	SKIN	
OEL	EU	260	200				
OSHA	USA	260	200				
CAL/OSHA	USA	260	200	325 (C)	1000 (C)	SKIN	
NIOSH	USA	260	200	325	250	SKIN	

ETHANOL							
Threshold Limit Value							
Туре	Country	TWA/8h		STEL/15	min	Remarks / Observations	
		mg/m3	ppm	mg/m3	ppm		
TLV-ACGIH	-			1884	1000		
OSHA	USA	1900	1000				
CAL/OSHA	USA	1.9	1				
NIOSH	USA	1900	1000				

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.

The following should be considered when choosing work glove material (OSHA 29 CFR 1910.138): compatibility, degradation, failure time and permeability.



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

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).

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). 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.

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 from chemical agents in nitrile or neoprene (EN 374-1: 2016) at least type B or higher based on the risk assessment carried out by the company

9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties Appearance Colour Odour Odour threshold		Value liquid colourless typical		Information
pH		not available 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		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		
Explosive properties		not available		
Oxidising properties		not available		
9.2. Other information				
VOC :		91,42 % - 758,74	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

EN



10. Stability and reactivity ... / >>

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.

ETHANOL

Risk of explosion on contact with: alkaline metals,alkaline oxides,calcium hypochlorite,sulphur monofluoride,acetic anhydride,acids,concentrated hydrogen peroxide,perchlorates,perchloric acid,perchloronitrile,mercury nitrate,nitric acid,silver,silver nitrate,ammonia,silver oxide,ammonia,strong oxidising agents,nitrogen dioxide.May react dangerously with: bromoacetylene,chlorine acetylene,bromine trifluoride,chromium trioxide,chromyl chloride,fluorine,potassium tert-butoxide,lithium hydride,phosphorus trioxide,black platinum,zirconium (IV) chloride,zirconium (IV) iodide.Forms explosive mixtures with: air.

10.4. Conditions to avoid

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

ETHANOL

Avoid exposure to: sources of heat, naked flames.

10.5. Incompatible materials

Octamethylcyclotetrasiloxane Strong oxidizing agents

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

METHANOL

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

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

METHANOL

The minimum lethal dose for humans by ingestion is considered to be in the range from 300 to 1000 mg/kg. Ingestion of 4-10 ml of the substance may cause permanent blindness in adult humans (IPCS).

Interactive effects

Information not available

ACUTE TOXICITY

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

> 4800 mg/kg Ratto > 2375 mg/kg Ratto 36 mg/l/4h Ratto



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11. Toxicological information ... / >>

ETHANOL LD50 (Oral): LC50 (Inhalation vapours):

> 5000 mg/kg Rat 120 mg/l/4h Pimephales promelas

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

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

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 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

ΕN

Tenax

12 Ecological information

/ >>

TENAX SPA PECTRO

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12. Ecological information / >>		
Chronic NOEC for Crustacea	> 0.0079 mg/l Daphnia magna	
12.2. Persistence and degradability		
Octamethylcyclotetrasiloxane NOT rapidly degradable		
METHANOL		
Solubility in water Rapidly degradable	1000 - 10000 mg/l	
ETHANOL		
Solubility in water Rapidly degradable	1000 - 10000 mg/l	
12.3. Bioaccumulative potential		
Octamethylcyclotetrasiloxane		
Partition coefficient: n-octanol/water	6.49 Log Kow 25°C	
METHANOL		
Partition coefficient: n-octanol/water	-0.77	
BCF	0.2	
ETHANOL		
Partition coefficient: n-octanol/water	-0.35	
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)
IMDG:	FLAMMABLE LIQUID, N.O.S. (ETHANOL)
IATA:	FLAMMABLE LIQUID, N.O.S. (ETHANOL)



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, <u>S-E</u> Limited Quantities: 1 L Maximum quantity: 60 L Packaging instructions: 364 IATA: Cargo: Passengers: 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

U.S. Federal Regulations

TSCA:

All components of this product are listed on US Toxic Substances Control Act (TSCA) Inventory or are exempt from the listing / notification requirements.

Clean Air Act Section 112(b):67-56-1METHANOL78-93-3METHYLETHYLKETONE

Clean Air Act Section 602 Class I Substances: No component(s) listed.

Clean Air Act Section 602 Class II Substances: No component(s) listed.

Clean Water Act – Priority Pollutants: No component(s) listed.

Clean Water Act – Toxic Pollutants: No component(s) listed.

DEA List I Chemicals (Precursor Chemicals): No component(s) listed. EN





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15. Regulatory information ... / >>

DEA List II Chemicals (Essential Chemicals): 78-93-3 METHYLETHYLKETONE

EPA List of Lists: 313 Category Code: 67-56-1 METHANOL

EPCRA 302 EHS TPQ: No component(s) listed.

EPCRA 304 EHS RQ: No component(s) listed.

CERCLA RQ:

ENGLA NG.	
67-56-1	METHANOL
78-93-3	METHYLETHYLKETONE
64-19-7	ACETIC ACID

EPCRA 313 TRI:

67-56-1 METHANOL

RCRA Code:	
67-56-1	METHANOL
78-93-3	METHYLETHYLKETONE

CAA 112 (r) RMP TQ: No component(s) listed.

State Regulations

Massachussetts:

100330010330113.				
78-10-4	ETHYL SILICATE			
67-56-1	METHANOL			
64-17-5	ETHANOL			
78-93-3	METHYLETHYLKETONE			
64-19-7	ACETIC ACID			
01.10.1				
Minnesota:				
78-10-4	ETHYL SILICATE			
67-56-1	METHANOL			
64-17-5	ETHANOL			
78-93-3	METHYLETHYLKETONE			
64-19-7	ACETIC ACID			
	ACE TIC ACID			
New Jersey: 78-10-4				
New Jersey:				
	ETHYL SILICATE			
	67-56-1 METHANOL			
64-17-5	ETHANOL			
78-93-3	METHYLETHYLKETONE			
64-19-7	ACETIC ACID			
New York:				
67-56-1	METHANOL			
78-93-3	METHYLETHYLKETONE			
64-19-7	ACETIC ACID			
Pennsylvania:				
78-10-4	ETHYL SILICATE			
67-56-1	METHANOL			
64-17-5	ETHANOL			
78-93-3	METHYLETHYLKETONE			
64-19-7	ACETIC ACID			
04-19-7	ACE TIC ACID			
California				
California:				
78-10-4	ETHYL SILICATE			
67-56-1	METHANOL			
64-17-5	ETHANOL			
78-93-3	METHYLETHYLKETONE			
64-19-7	ACETIC ACID			



15. Regulatory information ... / >>

Proposition 65:

WARNING! This product contains chemicals known to the State of California to cause cancer and birth defects or reproductive harm.

67-56-1 METHANOL					
	NSRL / MADL (µg/day)				
Hazard type	Oral	Dermal	Inhalation	Intravenous	Note
Development toxicity	23000		47000		_

International Regulations

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention: None

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.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs.
H318	Causes serious eye damage.
H315	Causes skin irritation.
H410	Very toxic to aquatic life with long lasting effects.

LEGEND:

- 313 CATEGORY CODE: Emergency Planning and Community Right-to Know Act Section 313 Category Code
- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAA 112 ® RMP TQ: Risk Management Plan Threshold Quantity (Clean Air Act Section 112®)
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CERCLA RQ: Reportable Quantity (Comprehensive Environment Response, Compensation, and Liability Act)
- CLP: Regulation (EC) 1272/2008
- DEA: Drug Enforcement Administration
- EmS: Emergency Schedule
- EPA: US Environmental Protection Agency
- EPCRA: Emergency Planning and Community Right-to Know Act
- EPCRA 302 EHS TPQ: Extremely Hazardous Substance Threshold Planning Quantity (Section 302 Category Code)
- EPCRA 304 EHS RQ: Extremely Hazardous Substance Reportable Quantity (Section 304 Category Code)
- EPCRA 313 TRI: Toxics Release Inventory (Section 313 Category Code)
- 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
- RCRA Code: Resource Conservation and Recovery Act Code
- REACH: Regulation (EC) 1907/2006
- REL: Recommended exposure limit
- 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.
- TSCA: Toxic Substances Control Act
- TWA: Time-weighted average exposure limit
- TWA STEL: Short-term exposure limit
- VOC: Volatile organic Compounds
- WHMIS: Workplace Hazardous Materials Information System.





16. Other information ... / >>

- GENERAL BIBLIOGRAPHY:
- GHS rev. 3
- 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
-
- 6 NYCRR part 597 - Cal/OSHA website
- California Safe Drinking Water and Toxic Enforcement Act
- EPA website
- Hazard Comunication Standard (HCS 2012)
- IARC website
- List Of Lists EPA: Consolidated List of Chemicals Subject to EPCRA, CERCLA and Section 112® of the Clean Air Act
- Massachussetts 105 CMR Department of public health 670.000: "Right to Know"
- Minensota Chapter 5206 Departemnt Of Labor and Industry Hazardous Substances, Employee "Right to Know".
- New Jersey Worker and Community Right to know Act N.J.S.A.
- NTP. 2011. Report on Carcinogens, 12th Edition.
- OSHA website
- Pennsylvania, Hazardous Substance List, Chapter 323

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 OSHA Hazard Communication Standard (HCS) (29 CFR 1910.1200), 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 / 04 / 08 / 09 / 10 / 11 / 12 / 14 / 15 / 16.