

Safety Data Sheet

SECTION 1. Identification of the substance/mixture and of the company/undertaking.

1.1. Product identifier.

Product name. **ETOX RTU**

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

Intended use. **Water-based liquid insecticide and acaricide ready to use. Specific for fight flying and crawling insects. For domestic and civil use.**

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

Name. **COLKIM S.r.l.**
Full address. **Via Piemonte, 50**
District and Country. **40064 OZZANO EMILIA (BO)**
Italia
Tel. 051 / 799445
Fax. 051 / 797555
E-mail address of the competent person. **info@colkim.it**
Responsible for the Safety Data Sheet.
Product distribution by: **COLKIM S.r.l. - Via Piemonte, 50 - 40064 OZZANO E. (BO)**

1.4. Emergency telephone number.

For urgent inquiries refer to. **118**

Contact a poison control center:

Poison Control Center	Address	Telephone Number
CAV "Osp. Pediatrico Bambino Gesù"	P.zza Sant'Onofrio, 4 – 00165 Roma (RM)	06 68593726
Az. Osp. Univ. Foggia	V.le Luigi Pinto, 1 – 71122 Foggia (FG)	0881 732326
Az. Osp. "A. Cardarelli"	Via A. Cardarelli, 9 – 80131 Napoli (NA)	081 7472870
CAV Policlinico "Umberto I"	V.le del Policlinico, 155 – 00161 Roma (RM)	06 49978000
CAV Policlinico "A. Gemelli"	Largo Agostino Gemelli, 8 – 00168 Roma (RM)	06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica	Largo Brambilla, 3 – 50134 Firenze (FI)	055 7947819
CAV Centro Nazionale di Informazione Tossicologica	Via Salvatore Maugeri, 10 – 27100 Pavia (PV)	0382 24444
Osp. Niguarda Ca' Granda	P.zza Ospedale Maggiore, 3 – 20162 Milano (MI)	02 66101029
Azienda Ospedaliera Papa Giovanni XXII	P.zza OMS, 1 – 24127 Bergamo (BG)	800883300

SECTION 2. Hazards identification.

2.1. Classification of the substance or mixture.

The product is classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:

Reproduction toxicity, Additional category for effects on or via lactation;	H362	May cause harm to breast-fed children.
Hazardous to the aquatic environment - Chronic Hazard, Category 1	H410	Very toxic to aquatic life with long lasting effects.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Warning.

Hazard statements:

H362 May cause harm to breast-fed children.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P102
P263
P270
P273 Avoid release to the environment.
P308+P313
P391
P501

2.3. Other hazards.

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

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

Information not relevant.

3.2. Mixtures.

Contains:

Identification.	Conc.%	Classification 1272/2008 (CLP).
DIPROPYLENE GLYCOL MONOMETHYL ETHER CAS. 34590-94-8 EC. 252-104-2 INDEX. - Reg. no. 01-2119450011-60	6-7	Substance with a community workplace exposure limit.
PIPERONYL BUTOXIDE CAS. 51-03-6 EC. 200-076-7 INDEX. - Reg. no. 01-219918969-16-0000	1	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
ETOFENPROX CAS. 80844-07-1 EC. 407-980-2 INDEX. -	0,5	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
2-(2-BUTOXYETHOXY)ETHANOL CAS. 112-34-5 EC. 203-961-6 INDEX. 603-096-00-8 Reg. no. 01-2119475104-44-0006	0,5-0,6	Eye Irrit. 2 H319
2-BROMO-2-NITROPROPAN-1,3-DIOL CAS. 52-51-7	0,3-0,35	Acute Tox. 4 H302, Acute Tox. 4 H312, Eye Dam. 1 H318, Skin Irrit. 2 H315, STOT SE 3 H335, Aquatic Acute 1 H400 M=10

SECTION 7. Handling and storage.

7.1. Precautions for safe handling.

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use. Wash hands after use.

7.2. Conditions for safe storage, including any incompatibilities.

Keep the product in clearly labelled containers. Store the containers sealed, in a well ventilated place, away from direct sunlight.

7.3. Specific end use(s).

Information not available.

SECTION 8. Exposure controls/personal protection.

8.1. Control parameters.

Regulatory References:

GBR	United Kingdom	EH40/2005 Workplace exposure limits
ITA	Italy	Legislative Decree of 9 April 2008, No.81
EU	OEL EU	Directive 2009/161/EU; Directive 2006/15/EC; Directive 2004/37/EC; Directive 2000/39/EC.
	TLV-ACGIH	ACGIH 2014

DIPROPYLENE GLYCOL MONOMETHYL ETHER

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min		
		mg/m ³	ppm	mg/m ³	ppm	
WEL	GBR	308	50			SKIN.
VLEP	ITA	308	50			SKIN.
OEL	EU	308	50			SKIN.
TLV-ACGIH		606	100	909	150	SKIN.

Predicted no-effect concentration - PNEC.

Normal value in fresh water	19	mg/l
Normal value in marine water	19	mg/l
Normal value for fresh water sediment	70,2	mg/kg/d
Normal value for marine water sediment	7,02	mg/kg/d
Normal value for water, intermittent release	190	mg/l
Normal value of STP microorganisms	4168	mg/l

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Effects on workers			Chronic local	Chronic systemic
	Acute local	Acute systemic	Chronic local	Acute local	Acute systemic	Chronic local		
Oral.			VND	36 mg/kg bw/d				
Inhalation.			VND	37.2 mg/m ³			VND	308 mg/kg
Skin.			VND	121 mg/kg bw/d			VND	283 mg/kg bw/d

2-(2-BUTOXYETHOXY)ETHANOL

Threshold Limit Value.

Type	Country	TWA/8h		STEL/15min	
		mg/m ³	ppm	mg/m ³	ppm
VLEP	ITA	67,5	10	101,2	15
OEL	EU	67,5	10	101,2	15
TLV-ACGIH		66	10		

Predicted no-effect concentration - PNEC.

Normal value in fresh water	1	mg/l
Normal value in marine water	0,1	mg/l
Normal value for fresh water sediment	0,4	mg/kg
Normal value of STP microorganisms	200	mg/l
Normal value for the food chain (secondary poisoning)	56	mg/kg
Normal value for the terrestrial compartment	0,4	mg/kg

Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers.			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral.			VND	1,25 mg/kg/d				
Inhalation.	50,6 mg/m ³	VND	VND	34 mg/m ³			VND	67,5 mg/m ³
Skin.			VND	10 mg/kg/d			VND	20 mg/kg/d

Legend:

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

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

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.

HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

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 (see Directive 89/686/EEC and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION

Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION

If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). 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 (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

ENVIRONMENTAL EXPOSURE CONTROLS.

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

SECTION 9. Physical and chemical properties.
9.1. Information on basic physical and chemical properties.

Appearance	Liquid
Colour	Straw yellow
Odour	Characteristic
Odour threshold.	Not available.
pH.	4,5
Melting point / freezing point.	Not relevant.
Initial boiling point.	Not relevant.
Boiling range.	Not relevant.
Flash point.	> 60 °C.
Evaporation Rate	Not available.
Flammability of solids and gases	Not applicable.
Lower inflammability limit.	Not applicable.
Upper inflammability limit.	Not applicable.
Lower explosive limit.	Not applicable.
Upper explosive limit.	Not applicable.
Vapour pressure.	Not relevant.
Vapour density	Not relevant.
Density.	1,01 kg/L
Solubility	Soluble in water
Partition coefficient: n-octanol/water	Not available.
Auto-ignition temperature.	Not applicable.
Decomposition temperature.	Not applicable.

Viscosity Not available.
Explosive properties Not applicable.
Oxidising properties Not applicable.

9.2. Other information.

Information not available.

SECTION 10. Stability and reactivity.

ETOFENPROX

10.1. Reactivity.

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

DIPROPYLENE GLYCOL MONOMETHYL ETHER

May react with: oxidising substances. When heated to decomposition releases: harsh fumes, zinc alloys.

2-BROMO-2-NITROPROPAN-1,3-DIOL

Decomposes on contact with: water, metals, strong bases.

10.2. Chemical stability.

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

10.3. Possibility of hazardous reactions.

No hazardous reactions are foreseeable in normal conditions of use and storage.

2-(2-BUTOXYETHOXY)ETHANOL

May react with: oxidising substances. May form peroxides with: oxygen. Develops hydrogen on contact with: aluminium. May form explosive mixtures with: air.

10.4. Conditions to avoid.

None in particular. However the usual precautions used for chemical products should be respected.

2-(2-BUTOXYETHOXY)ETHANOL

Avoid exposure to: air.

2-BROMO-2-NITROPROPAN-1,3-DIOL

Avoid exposure to: light, UV rays, moisture.

10.5. Incompatible materials.

2-(2-BUTOXYETHOXY)ETHANOL

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

10.6. Hazardous decomposition products.

2-(2-BUTOXYETHOXY)ETHANOL

May develop: hydrogen.

2-BROMO-2-NITROPROPAN-1,3-DIOL

May develop: nitric oxide, carbon oxides, hydrobromic acid.

SECTION 11. Toxicological information.

No episodes of damage to health due to exposure to the product are known. In any case it is recommended to operate in compliance with the rules of good industrial hygiene. The preparation may, in particularly sensitive individuals, cause slight health effects due to inhalation and / or cutaneous absorption and / or contact with the eyes and / or ingestion.

11.1. Information on toxicological effects.

2-(2-BUTOXYETHOXY)ETHANOL Can be absorbed by inhalation, ingestion and skin contact; it is irritant to the skin and especially to the eyes; spleen damage may occur. Inhalation is unlikely to occur at room temperature due to the low vapour tension of the substance.

ACUTE TOXICITY.

LC50 (Inhalation - vapours) of the mixture: Not classified (no significant component).

LC50 (Inhalation - mists / powders) of the mixture: Not classified (no significant component).

LD50 (Oral) of the mixture: Not classified (no significant component).

LD50 (Dermal) of the mixture: Not classified (no significant component).

PIPERONYL BUTOXIDE

LD50 (Oral).4570 mg/kg ratto femmina

LD50 (Dermal).> 2000 mg/kg
LC50 (Inhalation).> 5,9 mg/l 4 h

ETOFENPROX

LD50 (Oral).> 42,88
LD50 (Dermal).> 2,14
LC50 (Inhalation).> 5,9 (4h)

TETRAMETHRINE

LD50 (Oral).> 2000
LD50 (Dermal).> 2000 mg/kg
LC50 (Inhalation).> 5,63 mg/l

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LD50 (Oral).5000 mg/kg
LD50 (Dermal).9510 mg/kg
LC50 (Inhalation).3,35 mg/l/4h

2-BROMO-2-NITROPROPAN-1,3-DIOL

LD50 (Oral).342 mg/kg
LD50 (Dermal).1600 mg/kg

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Oral).2410 mg/kg Rat
LD50 (Dermal).2764 mg/kg Rabbit

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

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

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

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

SECTION 12. Ecological information.

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

12.1. Toxicity.**PIPERONYL BUTOXIDE**

LC50 - for Fish.	3,94 mg/l/96h SPECIE CYPRINODON VARIEGATUS
EC50 - for Crustacea.	0,51 mg/l/48h SPECIE DAPHNIA MAGNA
EC50 - for Algae / Aquatic Plants.	3,89 mg/l/72h SPECIE SELENASTRUM CAPRICORNUTUM
Chronic NOEC for Fish.	0,053 mg/l
Chronic NOEC for Algae / Aquatic Plants.	0,824 mg/l

ETOFENPROX

LC50 - for Fish.	0,141 mg/l/96h SPECIE PESCI:CARPA
EC50 - for Crustacea.	0,00366 mg/l/48h SPECIE DAPHNIA MAGNA

TETRAMETHRINE

LC50 - for Fish.	0,033 mg/l/96h
EC50 - for Crustacea.	0,47 mg/l/48h
EC50 - for Algae / Aquatic Plants.	1,36 mg/l/72h

DIPROPYLENE GLYCOL MONOMETHYL ETHER

LC50 - for Fish.	10000 mg/l/96h
EC50 - for Crustacea.	1919 mg/l/48h
EC50 - for Algae / Aquatic Plants.	6999 mg/l/72h
Chronic NOEC for Crustacea.	0,5 mg/l

2-BROMO-2-NITROPROPAN-1,3-DIOL

LC50 - for Fish.	20 mg/l/96h <i>Oncorhynchus mykiss</i>
EC50 - for Crustacea.	1,6 mg/l/48h <i>Daphnia magna</i>

2-(2-BUTOXYETHOXY)ETHANOL

LC50 - for Fish.	1300 mg/l/96h
EC50 - for Crustacea.	> 100 mg/l/48h

12.2. Persistence and degradability.**PIPERONYL BUTOXIDE**

Solubility in water.	28,9 mg/l
NOT rapidly biodegradable.	

TETRAMETHRINE

Solubility in water.	0,25 mg/l
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DIPROPYLENE GLYCOL MONOMETHYL ETHER

Solubility in water.	1000 - 10000 mg/l
Rapidly biodegradable.	

2-BROMO-2-NITROPROPAN-1,3-DIOL

Solubility in water.	286000 mg/l
Rapidly biodegradable.	

2-(2-BUTOXYETHOXY)ETHANOL

Solubility in water.	1000 - 10000 mg/l
Rapidly biodegradable.	

12.3. Bioaccumulative potential.**PIPERONYL BUTOXIDE**

Partition coefficient: n-octanol/water.	4,8
BCF.	91

TETRAMETHRINE

Partition coefficient: n-octanol/water.	> 4,09
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DIPROPYLENE GLYCOL MONOMETHYL ETHER

Partition coefficient: n-octanol/water.	1,01
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2-BROMO-2-NITROPROPAN-1,3-DIOL

Partition coefficient: n-octanol/water.	0,22
BCF.	3,16

2-(2-BUTOXYETHOXY)ETHANOL

Partition coefficient: n-octanol/water.	1
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12.4. Mobility in soil.**TETRAMETHRINE**

Partition coefficient: soil/water. 3,35

DIPROPYLENE GLYCOL MONOMETHYL
ETHER

Partition coefficient: soil/water. 0,28

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%.

12.6. Other adverse effects.

Information not available.

SECTION 13. Disposal considerations.**13.1. Waste treatment methods.**

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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

Waste transportation may be subject to ADR restrictions.

The CER codes recommended (which may change according to the use) are:

CER 16.03.05* – Organic waste containing hazardous substances.

CONTAMINATED PACKAGING

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

The CER codes recommended (which may change according to the use) are:

CER 15.01.10* - Packaging containing residues of or contaminated by dangerous substances.

SECTION 14. Transport information.**14.1. UN number**

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to ADR provisions.IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IMDG Code provisions.IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity \leq 5Kg or 5L, is not submitted to IATA dangerous goods regulations.**14.2. UN proper shipping name**

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETOFENPROX, PIPERONYL BUTOXYDE)

IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETOFENPROX, PIPERONYL BUTOXYDE)

IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ETOFENPROX, PIPERONYL BUTOXYDE)

14.3. Transport hazard class(es)

ADR / RID: Class: 9 Label: 9



IMDG: Class: 9 Label: 9



IATA: Class: 9 Label: 9

**14.4. Packing group**

ADR / RID, IMDG, IATA: III

14.5. Environmental hazards

ADR / RID: Environmentally Hazardous



IMDG: Marine Pollutant

IATA: Environmentally Hazardous

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 90 Special Provision: -	Limited Quantities: 5 L	Tunnel restriction code: (-)
IMDG:	EMS: F-A, S-F	Limited Quantities: 5 L	
IATA:	Cargo: Pass.: Special Instructions:	Maximum quantity: 450 L Maximum quantity: 450 L A97, A158, A197	Packaging instructions: 964 Packaging instructions: 964

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

Information not relevant.

SECTION 15. Regulatory information.**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture.**

Seveso Category – Directive 2012/18/EC: E1

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006.Product.

Point. 3

Contained substance.

Point. 55 2-(2-BUTOXYETHOXY)ETHANOL Reg. no.: 01-2119475104-44-0006

Substances in Candidate List (Art. 59 REACH).

On the basis of available data, the product does not contain any SVHC in percentage greater than 0,1%.

Substances subject to authorisation (Annex XIV REACH).

None.

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None.

Substances subject to the Rotterdam Convention:

None.

Substances subject to the Stockholm Convention:

None.

Healthcare controls.

Information not available.

15.2. Chemical safety assessment.

Refer to the protection and prevention measures in sections 7 and 8 of the datasheet.

SECTION 16. Other information.**MINISTRY OF HEALTH AUTHORIZATION N. 20067**

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

Acute Tox. 4	Acute toxicity, category 4
Eye Dam. 1	Serious eye damage, category 1
Eye Irrit. 2	Eye irritation, category 2

Skin Irrit. 2	Skin irritation, category 2
STOT SE 3	Specific target organ toxicity - single exposure, category 3
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H302	Harmful if swallowed.
H312	Harmful in contact with skin.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic 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)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 1272/2008
- DNEL: Derived No Effect Level
- 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
- INDEX NUMBER: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level
- PNEC: Predicted no effect concentration
- REACH: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic Compounds
- vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation
- WGK: Water hazard classes (German).

GENERAL BIBLIOGRAPHY

1. Regulation (EC) 1907/2006 (REACH) of the European Parliament
 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament
 3. Regulation (EU) 790/2009 (I Atp. CLP) of the European Parliament
 4. Regulation (EU) 2015/830 of the European Parliament
 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament
 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament
 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament
 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament
 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament
 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament
 12. Regulation (EU) 2016/1179 (IX Atp. CLP)
 13. Regulation (EU) 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
 - Handling Chemical Safety
 - INRS - Fiche Toxicologique (toxicological sheet)

- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS website
- ECHA website
- Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy

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.

Changes to previous review:

The following sections were modified: 11; 14.

Legend of the information contained at section 9.1 of the datasheet:

Not Applicable: the data or the characteristic is not applicable to the product in question, due to its nature.

Not Relevant: the data or the characteristic is not relevant to determine the hazardous characteristics of the product.

Not Available: the data or the characteristic, even though it would be potentially relevant to determine the characteristics of the product, is not available.