

Revision nr. 4 Dated 24/11/2022 Printed on 24/11/2022 Page n. 1/17 Replaced revision:3

STING RTU

	Safety Da			
According to An	nex II to REACH - Regulatio	n 2020/878 and to Annex II to UK	REACH	
SECTION 1. Identification of the	substance/mixture	and of the company/u	ndertaking	
.1. Product identifier				
Product name	STING RTU			
Surgical medicl device n°	19745			
JFI :	8F23-506X-F00C-N	4SY		
I.2. Relevant identified uses of the substand ntended use Ready to use li		vised against Introl of flying and crawling inse	ects	
dentified Uses	Industrial	Professional	Consumer	
nsecticides	-	~	4	
Jses Advised Against				
1.3. Details of the supplier of the safety data Name Full address District and Country	sheet COLKIM S.r.I. Via Piemonte, 50 40064 OZZANO EM Italia	MILIA (BO)		
	Tel. 051 / 799445			
	Fax 051 / 797555			
e-mail address of the competent person				
responsible for the Safety Data Sheet Supplier:	info@colkim.it COLKIM S.r.I Via	Piemonte, 50 - 40064 OZZANO	E. (BO)	
1.4. Emergency telephone number For urgent inquiries refer to 118 Contact a poison control center:				
Nane	City	Address	Zip code	Phone
CAV "Osp. Pediatrico Bambino Gesù"	Roma	P.zza Sant`Onofrio, 4	00165	06 68593726
Az. Osp. Univ. Foggia	Foggia	V.le Luigi pinto, 1	71122	0881 732326
Az. Osp. "A. Cardarelli"	Napoli	Via A. Cardarelli, 9	80131	081 7472870
CAV Policlinico "Umbero I"	Roma	V.le del policlinico, 155	00161	06 49978000

CAV Policinico "Umbero I"	Roma	Vile del policinico, 155	00161	06 49978000
CAV Policlinico "A. Gemelli"	Roma	Largo Agostino Gemelli, 8	00168	06 3054343
Az. Osp. "Careggi" U.O. Tossicologia Medica	Firenze	Largo Brambilla, 3	50134	055 7947819
CAV Centro Nazionale di Informazione Tossicologica	Pavia	Via Salvatore Maugeri, 10	27100	0382 24444
Osp. Niguarda Ca' Granda	Milano	P.zza Ospedale Maggiore,3	20162	02 66101029
Azienda Ospedaliera Papa Giovanni XXII	Bergamo	P.zza OMS, 1	24127	800883300
CAV centro antiveleni Verona	Verona	Piazzale Aristide Stefani,1	37126	800011858

SECTION 2. Hazards identification



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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 (EU) Regulation 2020/878. 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:		
Eye irritation, category 2	H319	Causes serious eye irritation.
Hazardous to the aquatic environment, acute toxicity, category 1	H400	Very toxic to aquatic life.
Hazardous to the aquatic environment, chronic toxicity, 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.



2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration $\geq 0.1\%$.

SECTION 3. Composition/information on ingredients

3.2. Mixtures



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Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
2-(2-BUTOXYETHOXY)ETHANOL		
INDEX 603-096-00-8	10 ≤ x < 11,5	Eye Irrit. 2 H319
EC 203-961-6		
CAS 112-34-5		
REACH Reg. 01-2119475104-44-		
0006 PIPERONYL BUTOXIDE		
INDEX -	0,45 ≤ x < 0,5	Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1
EC 200-076-7		
CAS 51-03-6		
REACH Reg. 01-2119537431-46- 0000 PERMETHRIN		
	0.45 4.4 4.0 5	Ander True A 11000, Ander True A 11000, Olije Orane, A 11047, Amerika Ander A
INDEX 613-058-00-2	$0,45 \le x \le 0,5$	Acute Tox. 4 H302, Acute Tox. 4 H332, Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1000, Aquatic Chronic 1 H410 M=1000
EC 258-067-9		LD50 Oral: 664 mg/kg, LC50 Inhalation mists/powders: 4,638 mg/l/4h
CAS 52645-53-1		
PRALLETHRIN		
INDEX 607-431-00-9	0,05 ≤ x < 0,1	Acute Tox. 3 H331, Acute Tox. 4 H302, Aquatic Acute 1 H400 M=10, Aquatic Chronic 1 H410 M=10
EC 245-387-9		LD50 Oral: 460 mg/kg, STA Inhalation vapours: 3 mg/l
CAS 23031-36-9		
REACH Reg. 05-2116475244-44- 0000		

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

SECTION 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. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.

INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless 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

SECTION 5. Firefighting measures

5.1. Extinguishing media



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SUITABLE EXTINGUISHING EQUIPMENT

The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray. UNSUITABLE EXTINGUISHING EQUIPMENT None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE 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).

SECTION 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.

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. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

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. Keep containers away from any incompatible materials, see section 10 for details.



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7.3. Specific end use(s)

Information not available

SECTION 8. Exposure controls/personal protection

PIPERONYL BUTOXIDE

It have not been set official limits of exposure for the product

8.1. Control parameters

Regulatory References:

ITA	Italia	Decreto Legislativo 9 Aprile 2008, n.81
GBR	United Kingdom	EH40/2005 Workplace exposure limits (Fourth Edition 2020)
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 2021

2-(2-BUTOXYETHOXY)ETHANOL

Туре	Country	TWA/8h		STEL/15min		Remarks Observa		
		mg/m3	ppm	mg/m3	ppm			
VLEP	ITA	67,5	10	101,2	15			
WEL	GBR	67,5	10	101,2	15			
OEL	EU	67,5	10	101,2	15			
TLV-ACGIH		66	10			INHAL		
Predicted no-effect concent	ation - PNEC							
Normal value in fresh water				1	mç	g/l		
Normal value in marine wate	er			0,1	mç	g/l		
Normal value for fresh water	sediment			4,4	mç	g/kg		
Normal value for marine wat	er sediment			0,44	mç	g/kg		
Normal value of STP microo	rganisms			200	mç	g/l		
Normal value for the food ch	ain (secondary poison	ing)		56	mç	g/kg		
Normal value for the terrestr	ial compartment			0,4	mç	g/kg		
Health - Derived no-eff	ect level - DNEL / D	MEL						
	Effects on consumers				Effects on workers			
Route of exposure	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/m3	VND	VND	34 mg/m3			VND	67,5 mg/m3
Skin			VND	10 mg/kg/d			VND	20 mg/kg/d
PIPERONYL BUTOXID								
Predicted no-effect concent								
Normal value in fresh water				0,00148	mç	n/l		



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Normal value in marine wat	er			0,000148	mç	g/I		
Normal value for fresh wate	r sediment			0,043	mį	g/kg		
Normal value for marine wa	ter sediment			0,0043	mç	g/kg		
Normal value of STP micro	organisms			2,89	mç	g/l		
Normal value for the terrest	rial compartment			0,111	mç	g/kg/d		
Health - Derived no-eff	ect level - DNEL / E Effects on consumers	DMEL			Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				0,221 mg/kg bw/d				
Inhalation				0.388 mg/m3				1,6 mg/m3
Skin				0,221 mg/kg bw/d				0,443 mg/kg bw/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 ; LOW = low hazard ; MED = medium hazard ; HIGH = high hazard.

8.2. Exposure controls

	engineering controls can be highly effective in protecting workers and will typically this high level of protection. The basic types of engineering controls are: Process activity or process is done to reduce the risk. Enclosure and/or isolation of er "physically" away from the worker and ventilation that strategically "adds" and "re can remove or dilute an air contaminant if designed properly. The design of a vent and chemical or contaminant in use. Employers may need to use multiple types of General exhaust is adequate under normal operating conditions. If risk of overe Correct fit is essential to obtain adequate protection. Provide adequate ventila contaminants generated in the workplace possess varying "escape" velocities wh fresh circulating air required to effectively remove the contaminant.	s controls which involve chan nission source which keep emoves" air in the work envi ilation system must match to f controls to prevent employ xposure exists, wear SAA tion in warehouse or close	anging the way a job is a selected hazard ironment. Ventilation he particular process oyee overexposure. approved respirator. d storage areas. Air capture velocities" of	
	Type of Contaminant:		Air Speed:	
	solvent, vapours, degreasing etc., evaporating from tank (in still air)	0.25-0.5 m/s (50-100 f/min)		
8.2.1 APPROPRIATE ENGINEERING CONTROLS	aerosols, fumes from pouring operations, intermittent container filling, low s welding, spray drift, plating acid fumes, pickling (released at low velocity into zon	0.5-1 m/s (100-200 f/min.)		
	direct spray, spray painting in shallow booths, drum filling, conveyer loading, cru (active generation into zone of rapid air motion)	1-2.5 m/s (200-500 f/min)		
	grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released zone of very high rapid air motion).	2.5-10 m/s (500-2000 f/min.)		
	Within each range the appropriate value depends on:		I	
	Lower end of the range	Upper end of the range		
	1: Room air currents minimal or favourable to capture	1: Disturbing room air c		
	2: Contaminants of low toxicity or of nuisance value only	2: Contaminants of high	/	
	3: Intermittent, low production.	3: High production, hear	/	
	4: Large hood or large air mass in motion	4: Small hood - local co	ntrol only	
Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speer extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air veloci extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min.) for extraction of solvents generated in a				



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	meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.
8.2.2 PERSONAL PROTECTION	
Eye and face protection	Safety glasses with side shields. Chemical goggles. Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]
Skin protection	See Hand protection below
Hands/feet protection	Wear chemical protective gloves, e.g. PVC. Wear safety footwear or safety gumboots, e.g. Rubber NOTE: The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact. Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed. The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice. Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended. Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include: - frequency and duration of contact - chemical resistance of glove material - glove thickness - dexterity.
	 Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent). When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended. Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use. Contaminated gloves should be replaced. As defined in ASTM F-739-96 in any application, gloves are rated as: Excellent when breakthrough time > 480 min. Good when breakthrough time < 20 min. Fair when breakthrough time < 20 min. Poor when glove material degrades For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended. It should be emphasised that glove thickness is not necessarily a good predictor of glove raterial. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times. Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers' technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example: Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of. Thicker gloves (up to 3
	Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.
Body protection	See Other protection below
Other protection	Overalls.P.V.C apron. Barrier cream. Skin cleansing cream. Eye wash unit.
Environmental	Emissions from manufacturing processes, including those from ventilation equipment, should be controlled for compliance with
exposure controls	environmental protection legislation. Product residues must not be discharged without control into wastewater or water courses.

SECTION 9. Physical and chemical properties



9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance Colour Odour Melting point / freezing point	liquid lightly yellow characteristic not determined	Method:OPPTS 830.6303 Method:OPPTS 830.6302 Method:OPPTS 830.6304 Reason for missing data: Determination not
Initial boiling point	not determined	necessary for safe use of the product Reason for missing data: Determination not necessary for safe use of the product
Flammability	not determined	Reason for missing data: Determination not necessary for safe use of the product
Lower explosive limit	not determined	Reason for missing data: Determination not necessary for safe use of the product
Upper explosive limit	not determined	Reason for missing data: Determination not necessary for safe use of the product
Flash point	not determined	Reason for missing data: Determination not necessary for safe use of the product
Auto-ignition temperature	not determined	Reason for missing data: Determination not necessary for safe use of the product
Decomposition temperature	not applicable	Reason for missing data: The mixture is not self-reactive
pH Kinematic viscosity	6 not determined	Method:OECD test 122 Reason for missing data: Determination not necessary for safe use of the product
Solubility	emulsionable	Remark: The product was created to be mixed with water
Partition coefficient: n-octanol/water	not applicable	Reason for missing data: Not determinable for mixtures
Vapour pressure	not available	Reason for missing data: Determination not necessary for safe use of the product
Density and/or relative density	1 kg/l not determined	Method:OECD test 109
Relative vapour density Particle characteristics	not determined	Reason for missing data: Determination not necessary for safe use of the product not relevant because the product is liquid
9.2. Other information		
9.2.1. Information with regard to physical haz	zard classes	
Information not available		
9.2.2. Other safety characteristics		
VOC (Directive 2010/75/EU)	0,46 % - 4,60 g/litre	

SECTION 10. Stability and reac	tivity
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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.

PERMETHRIN



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Stable in normal conditions of use and storage °C.

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.

PERMETHRIN

Reacts with: oxidising agents.

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.

PERMETHRIN

Avoid exposure to: sources of heat, naked flames.

PIPERONYL BUTOXIDE

Tenere lontano da: luce

10.5. Incompatible materials

2-(2-BUTOXYETHOXY)ETHANOL

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

PERMETHRIN

Keep away from: alkalis.

10.6. Hazardous decomposition products

2-(2-BUTOXYETHOXY)ETHANOL

May develop: hydrogen.

SECTION 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.



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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.

PERMETHRIN

Oral toxicity: acute LD50 (rat): 1476 mg/Kg (WHO > 500 mg/Kg) Dermal acute toxicity (rabbit): LD50 > 4000 mg/Kg Acute inhalation toxicity: LC50 (rat) > 23,5 mg/L (4 h) Adverse effects: the substance is a low toxic pyrethroid insecticide.

PIPERONYL BUTOXIDE

Oral toxicity: acute LD50 (rat): 4570 mg/Kg (males) 7220 mg/Kg (females) Dermal acute toxicity (rabbit): LD50 > 2000 mg/Kg Acute inhalation toxicity: LC50 (rat) > 5,9 mg/L (4 h) Irritability: non irritant Cutaneous sensitization: not sensitizing.

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

2-(2-BUTOXYETHOXY)ETHANOL WORKERS: inhalation; contact with the skin.

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

2-(2-BUTOXYETHOXY)ETHANOL

May be absorbed by inhalation, ingestion and skin contact; is irritating for the skin and especially for the eyes. May cause damage to the spleen. At room temperature the danger of inhalation is unlikely, due to the low vapour pressure of the substance.

Interactive effects

Information not available

ACUTE TOXICITY

ATE (Inhalation) of the mixture: ATE (Oral) of the mixture: ATE (Dermal) of the mixture:

2-(2-BUTOXYETHOXY)ETHANOL

LD50 (Dermal): LD50 (Oral):

PERMETHRIN

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

PIPERONYL BUTOXIDE

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): Not classified (no significant component) Not classified (no significant component) Not classified (no significant component)

2764 mg/kg Rabbit 2410 mg/kg Rat

> 2000 mg/kg Ratto 664 mg/kg Ratto 4,638 mg/l/4h Ratto

> 2000 mg/kg Coniglio 4570 mg/kg ratto maschio > 5,9 mg/l/4h ratto



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PRALLETHRIN

LD50 (Dermal): LD50 (Oral): LC50 (Inhalation vapours): > 2000 mg/kg 460 mg/kg > 0,47 mg/l

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

May produce an allergic reaction. Contains:PERMETHRIN

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

11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

This product is dangerous for the environment and highly toxic for aquatic organisms. In the long term, it have negative effects on aquatic environment. **12.1. Toxicity**

PERMETHRIN

LC50 - for Fish

0,145 mg/l/96h PESCI Carpa (Cyprinus carpio)



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EC50 - for Crustacea 0,32 mg/l/48h EC50 - for Algae / Aquatic Plants > 0,022 mg/l/72h ALGHE(Scenedesmus subspicatus) PRALLETHRIN 0,0176 mg/l/96h SPECIE BRACHYDANIO RERIO LC50 - for Fish 0,019 mg/l/48h SPECIE DAPHNIA MAGNA EC50 - for Crustacea EC50 - for Algae / Aquatic Plants 4,9 mg/l/72h SPECIE SCENEDESMUS SUBSPICATUS Chronic NOEC for Algae / Aquatic Plants 2,6 mg/l Scenedesmus subspicatus PIPERONYL BUTOXIDE 3,94 mg/l/96h SPECIE CYPRINODON VARIEGATUS LC50 - for Fish 0,51 mg/l/48h SPECIE DAPHNIA MAGNA EC50 - for Crustacea EC50 - for Algae / Aquatic Plants 3,89 mg/l/72h SPECIE SELENASTRUM CAPRICORNUTUM Chronic NOEC for Fish 0,18 mg/l (Pimephales promelas) Chronic NOEC for Crustacea 0,03 mg/l Daphnia magna Chronic NOEC for Algae / Aquatic Plants 0,824 mg/l 2-(2-BUTOXYETHOXY)ETHANOL LC50 - for Fish 1300 mg/l/96h EC50 - for Crustacea > 100 mg/l/48h 12.2. Persistence and degradability PRALLETHRIN Solubility in water 4,98 mg/l PIPERONYL BUTOXIDE Solubility in water 28,9 mg/l NOT rapidly degradable 2-(2-BUTOXYETHOXY)ETHANOL Solubility in water 1000 - 10000 mg/l Rapidly degradable 12.3. Bioaccumulative potential PRALLETHRIN BCF 46 L*kg PIPERONYL BUTOXIDE Partition coefficient: n-octanol/water 4,8 2-(2-BUTOXYETHOXY)ETHANOL Partition coefficient: n-octanol/water 1 12.4. Mobility in soil PRALLETHRIN



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Partition coefficient: soil/water

3,12

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. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. 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 authorised waste management firm, in compliance with national and local regulations.

Waste transportation may be subject to ADR restrictions.

CONTAMINATED PACKAGING

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

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG,	IATA: 3082
ADR / RID:	In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 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 ≤ 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. (PERMETHRIN; PIPERONYL BUTOXIDE)
IMDG:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN; PIPERONYL BUTOXIDE)
IATA:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PERMETHRIN; PIPERONYL BUTOXIDE)

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14.3. Transport hazard class(es)

ADR / RID:	Class: 9	Label: 9	All A
IMDG:	Class: 9	Label: 9	, M,

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IATA:	Class: 9	Label: 9			
4.4. Packing gro	pup				
ADR / RID, IME	DG, IATA:	Ш			
14.5. Environmer	ntal hazards				
ADR / RID:	Environmenta Hazardous	lly			
IMDG:	Marine Polluta	int			
IATA:	Environmenta Hazardous	lly			
14.6. Special pre	cautions for user				
ADR / RID:		HIN - Kemler: 90		Limited Quantities: 5 L	Tunnel restriction code: (-)
		Special provision: -		-	
IMDG:		EMS: F-A, S-F		Limited Quantities: 5 L	
IATA:		Cargo:		Maximum quantity: 450 I	Packaging instructions: 964
		Pass.:		Maximum quantity: 450 L	Packaging instructions: 964
		Special provision:		A97, A158, A197, A215	
14.7. Maritime tra	ansport in bulk accor	ding to IMO instruments			
nformation not rel	levant				
SECTION ²	15. Regulatory	information			
15.1. Safety, h	ealth and environme	ntal regulations/legislation spec	ific for the substance	or mixture	
Seveso Category	- Directive 2012/18/EL	J: E1			
Restrictions relating	ng to the product or co	ntained substances pursuant to Ar	nnex XVII to EC Regula	tion 1907/2006	
Product					

Product Point Contained substance

Point

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Point

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2-(2-BUTOXYETHOXY)ETHANOL REACH Reg.: 01-2119475104-44-0006

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

not applicable

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

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

PERMETHRIN

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.

15.2. Chemical safety assessment

A chemical safety assessment has not been performed for the preparation/for the substances indicated in section 3.

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

SECTION 16. Other information

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

Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Eye Irrit. 2	Eye irritation, category 2
Skin Sens. 1	Skin sensitization, category 1
Aquatic Acute 1	Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic toxicity, category 1
H331	Toxic if inhaled.
H302	Harmful if swallowed.
H332	Harmful if inhaled.



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319	Causes serious eye irritation.
317	May cause an allergic skin reaction.
400	Very toxic to aquatic life.
410	Very toxic to aquatic life with long lasting effects.

LEGEND:

H3 H3 H4 H4

- 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)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 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: 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: 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
- 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) 2020/878 (II Annex of REACH Regulation)
- Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
 Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament
 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)
- 14. Regulation (EU) 2018/669 (XI Atp. CLP)
- 15. Regulation (EU) 2019/521 (XII Atp. CLP)
- 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP)
- 17. Regulation (EU) 2019/1148
- 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP)
- 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP)
- 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP)
- 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP)
- 22. Delegated Regulation (UE) 2022/692 (XVIII 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



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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.

CALCULATION METHODS FOR CLASSIFICATION

Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9.

Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.

Changes to previous review:

The following sections were modified:

01 / 02 / 03 / 04 / 05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16.