

Safety Data Sheet<br>According to Annex II to REACH - Regulation 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Product name
PIRETRO RTU
Chemical name and synonym
UFI:

Surgical medical device n ${ }^{\circ} 19542$
G233-Q01Q-K00T-8HVE
1.2. Relevant identified uses of the substance or mixture and uses advised against Intended use

Liquid insecticide for the control of flying and crawling insects. For domestic and civil use.

| Identified Uses | Industrial | Professional | Consumer |
| :---: | :---: | :---: | :---: |
| Insecticides |  | $\checkmark$ | $\checkmark$ |
| Uses Advised Against |  |  |  |
| All uses other than those recommended |  |  |  |
| 1.3. Details of the supplier of the safety data sheet |  |  |  |
| Name | COLKIM |  |  |
| Full address | Via Piem |  |  |
| District and Country | $40064 \text { OZZ }$ <br> Italia |  |  |
|  | Tel. 051 / |  |  |
|  | Fax 051 / |  |  |
| e-mail address of the competent person |  |  |  |
| responsible for the Safety Data Sheet Supplier: | info@colk COLKIM | , 50-40064 |  |

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 Gesü" | Roma | P.zza Sant'Onofrio, 4 | 00165 | 0668593726 |
| Az. Osp. Univ. Foggia | Foggia | V.le Luigi pinto, 1 | 71122 | 0881732326 |
| Az. Osp. "A. Cardarelli" | Napoli | Via A. Cardarelli, 9 | 80131 | 0817472870 |
| CAV Policlinico "Umbero I" | Roma | V.le del policlinico, 155 | 00161 | 0649978000 |
| CAV Policlinico "A. Gemelli" | Roma | Largo Agostino Gemelli, 8 | 00168 | 063054343 |
| Az. Osp. "Careggi" U.O. Tossicologia Medica | Firenze | Largo Brambilla, 3 | 50134 | 0557947819 |
| CAV Centro Nazionale di Informazione Tossicologica | Pavia | Via Salvatore Maugeri, 10 | 27100 | 038224444 |
| Osp. Niguarda Ca' Granda | Milano | P.zza Ospedale Maggiore,3 | 20162 | 0266101029 |
| Azienda Ospedaliera Papa Giovanni XXII | Bergamo | P.zza OMS, 1 | 24127 | 800883300 |
| CAV centro antiveleni Verona | Verona | Piazzale Aristide Stefani, 1 | 37126 | 800011858 |


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|  | PIRETRO RTU |  |

## 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 (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 $2 \quad$ H319 Causes serious eye irritation
Skin sensitization, category $1 \quad$ H317 H317
H41 May cause an allergic skin reaction.
Hazardous to the aquatic environment, chronic toxicity, H411 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:

H319 Causes serious eye irritation.
H317 May cause an allergic skin reaction
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

| P102 | Keep out of reach of children. |
| :--- | :--- |
| P261 | Avoid breathing dust / fume / gas / mist / vapours / spray. |
| P270 | Do not eat, drink or smoke when using this product. |
| P273 | Avoid release to the environment. |
| P280 | Wear protective gloves / eye protection / face protection. |
| P301+P310 | IF SWALLOWED: immediately call a POISON CENTER / doctor / . . . |
| 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. |
| P391 | Collect spillage. |
| P501 | Dispose of contents / container to . . . |
|  |  |
| Contains: | CHRYSANTHEMUM CINERARIAEFOLIUM |

### 2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage $\geq$ 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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The full wording of hazard $(\mathrm{H})$ 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. 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

## SECTION 5. Firefighting measures

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### 5.1. Extinguishing media

## 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

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incompatible materials, see section 10 for details.

### 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:

| EU | OEL EU |
| :--- | :--- |
|  | Directive (EU) 2022/431; Directive (EU) 2019/1831; Directive (EU) 2019/130; Directive (EU) 2019/983; |
|  | Directive (EU) 201/2398; 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. |  |

## PIPERONYL BUTOXIDE

| Predicted no-effect concentration - PNEC |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Normal value in fresh water | 0,00148 | mg/l |  |  |  |
| Normal value in marine water | 0,000148 | mg/l |  |  |  |
| Normal value for fresh water sediment | 0,043 | mg/kg |  |  |  |
| Normal value for marine water sediment | 0,0043 | $\mathrm{mg} / \mathrm{kg}$ |  |  |  |
| Normal value of STP microorganisms | 2,89 | mg/l |  |  |  |
| Normal value for the terrestrial compartment | 0,111 | mg/kg/d |  |  |  |
| Health - Derived no-effect level - DNEL / DMELEffects onconsumersEffects on <br> workers |  |  |  |  |  |
| Route of exposure Acute local ${ }^{\text {acute systemic }}$ Chronic local | Chronic systemic | Acute local | Acute systemic | Chronic local | Chronic systemic |
| Oral | $\begin{aligned} & 0,221 \mathrm{mg} / \mathrm{kg} \\ & \mathrm{bw} / \mathrm{d} \end{aligned}$ |  |  |  |  |
| Inhalation | $0.388 \mathrm{mg} / \mathrm{m} 3$ |  |  |  | 1,6 mg/m3 |
| Skin | $\begin{aligned} & \text { 0,221 mg/kg } \\ & \text { bw/d } \end{aligned}$ |  |  |  | $\begin{aligned} & 0,443 \mathrm{mg} / \mathrm{kg} \\ & \mathrm{bw} / \mathrm{d} \end{aligned}$ |

CHRYSANTHEMUM CINERARIAEFOLIUM

| Threshold Limit Value |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
| Type | Country | TWA/8h |  | STEL/15min |  |
|  |  | $\mathrm{mg} / \mathrm{m} 3$ | ppm | $\mathrm{mg} / \mathrm{m} 3$ | ppm |

OEL
EU

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., CALCIUM SALT
Predicted no-effect concentration - PNEC

| Normal value in fresh water | 0,023 | $\mathrm{mg} / \mathrm{l}$ |
| :--- | :--- | :--- |
| Normal value in marine water | 0,0023 | $\mathrm{mg} / \mathrm{l}$ |
| Normal value for fresh water sediment | 0,174 | $\mathrm{mg} / \mathrm{kg}$ |
| Normal value for marine water sediment | 0,0174 | $\mathrm{mg} / \mathrm{kg}$ |



Legend: $(C)=$ CEILING ; INHAL = Inhalable Fraction $; \quad$ 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

8.2.1

APPROPRIATE
ENGINEERING
CONTROLS

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection. The basic types of engineering controls are: Process controls which involve changing the way a job activity or process is done to reduce the risk. Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure. General exhaust is adequate under normal operating conditions. If risk of overexposure exists, wear SAA approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

| Type of Contaminant: | Air Speed: |
| :--- | :--- |
| solvent, vapours, degreasing etc., evaporating from tank (in still air) | $0.25-0.5 \mathrm{~m} / \mathrm{s}$ <br> $(50-100 \mathrm{f} / \mathrm{min})$ |
| aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, <br> welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation) | $0.5-1 \mathrm{~m} / \mathrm{s}$ <br> $(100-200 \mathrm{f} / \mathrm{min})$. |
| direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge <br> (active generation into zone of rapid air motion) | $1-2.5 \mathrm{~m} / \mathrm{s}$ <br> $(200-500 \mathrm{f} / \mathrm{min})$ |



### 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]
See Hand protection below
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 $>20 \mathrm{~min}$.
- 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 resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. 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.

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## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

\(\left.\begin{array}{lll}Properties \& Value \& Information <br>
Appearance \& liquid \& Method:OPPTS 830.6303 <br>

Colour \& amber \& Method:OPPTS 830.6302\end{array}\right]\)| Method:OPPTS 830.6304 |
| :--- |
| Odour |
| Melting point / freezing point |
| characteristic |
| Initial boiling point |

### 9.2. Other information

### 9.2.1. Information with regard to physical hazard classes

Information not available

### 9.2.2. Other safety characteristics

VOC (Directive 2010/75/EU)

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## SECTION 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

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

### 10.4. Conditions to avoid

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

Keep away from: light

### 10.5. Incompatible materials

Information not available

### 10.6. Hazardous decomposition products

Information not available

## 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.
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.

PIPERONYL BUTOXIDE
Oral toxicity: acute LD50 (rat): $4570 \mathrm{mg} / \mathrm{Kg}$ (males) $7220 \mathrm{mg} / \mathrm{Kg}$ (females)
Dermal acute toxicity (rabbit): LD50 > $2000 \mathrm{mg} / \mathrm{Kg}$
Acute inhalation toxicity: LC50 (rat) $>5,9 \mathrm{mg} / \mathrm{L}(4 \mathrm{~h})$
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

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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

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

PIPERONYL BUTOXIDE

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

## CHRYSANTHEMUM CINERARIAEFOLIUM

LD50 (Dermal):
> $2000 \mathrm{mg} / \mathrm{kg}$ RABBIT
LD50 (Oral):
LC50 (Inhalation vapours):
STA (Inhalation vapours):
> $2000 \mathrm{mg} / \mathrm{kg}$ Rabbit
$>20 \mathrm{mg} / \mathrm{l}$
>2000 mg/kg
Not classified (no significant component)
$4570 \mathrm{mg} / \mathrm{kg}$ male rat
$>5,9 \mathrm{mg} / / 4 \mathrm{~h}$ rat

BENZENESULFONIC ACID, C10-13-ALKYL DERIVS., CALCIUM SALT

LD50 (Dermal):
LD50 (Oral):

2-ETHYLHEXANOL

LD50 (Dermal):
LD50 (Oral):
LC50 (Inhalation vapours):
STA (Inhalation vapours):
> 2000 mg/kg Specie: rat
4445 mg/kg Specie: rat
> 3000 mg/kg Specie:rat
3290 mg/kg Specie: rat
$5,3 \mathrm{mg} / \mathrm{kg}$ Specie: rat
$11 \mathrm{mg} / \mathrm{l}$ estimate from table 3.1.2 of Annex I of the CLP
(figure used for calculation of the acute toxicity estimate of the mixture)

## 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

Sensitising for the skin

GERM CELL MUTAGENICITY

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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 is toxic for aquatic organisms. In the long term, it have negative effects on acquatic environment.
12.1. Toxicity

2-ETHYLHEXANOL
LC50 - for Fish $\quad 28,2 \mathrm{mg} / / / 96 \mathrm{~h} \mathrm{FISH}$
EC50 - for Crustacea
EC50 - for Algae / Aquatic Plants
$39 \mathrm{mg} / / / 48 \mathrm{~h}$ SPECIE DAPHNIA
$11,5 \mathrm{mg} / / / 72 \mathrm{~h}$

PIPERONYL BUTOXIDE
LC50 - for Fish
3,94 mg///96h SPECIE CYPRINODON VARIEGATUS
EC50 - for Crustacea
$0,51 \mathrm{mg} / / 48 \mathrm{~h}$ SPECIE DAPHNIA MAGNA
EC50 - for Algae / Aquatic Plants
Chronic NOEC for Fish $3,89 \mathrm{mg} / / / 72 \mathrm{~h}$ SPECIE SELENASTRUM CAPRICORNUTUM
$0,18 \mathrm{mg} / \mathrm{l}$ (Pimephales promelas)
Chronic NOEC for Crustacea
$0,03 \mathrm{mg} / \mathrm{l}$ Daphnia magna
Chronic NOEC for Algae / Aquatic Plants
$0,824 \mathrm{mg} / \mathrm{l}$

CHRYSANTHEMUM CINERARIAEFOLIUM
LC50 - for Fish $0,0052 \mathrm{mg} / / 96 \mathrm{~h}$
EC50 - for Crustacea
$0,012 \mathrm{mg} / / / 48 \mathrm{~h}$

BENZENESULFONIC ACID, C10-13-ALKYL

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| DERIVS., CALCIUM SALT <br> LC50 - for Fish | $10 \mathrm{mg} / / / 96 \mathrm{~h}$ |  |
| EC50 - for Crustacea | $2,9 \mathrm{mg} / / / 48 \mathrm{~h}$ Specie: Dafnie |  |
| EC50 - for Algae / Aquatic Plants <br> 12.2. Persistence and degradability | $29 \mathrm{mg} / / / 72 \mathrm{~h}$ |  |
| PIPERONYL BUTOXIDE |  |  |
| Solubility in water NOT rapidly degradable | 28,9 mg/l |  |
| 12.3. Bioaccumulative potential |  |  |
| PIPERONYL BUTOXIDE |  |  |
| Partition coefficient: n-octanol/water | 4,8 |  |

### 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. 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 $\leq 5 \mathrm{Kg}$ or 5 L , 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 $\leq 5 K \mathrm{Kg}$ or 5 L , is not submitted to IMDG Code provisions.
IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity $\leq 5 \mathrm{Kg}$ or 5 L , is not submitted to IATA dangerous goods regulations.

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### 14.2. UN proper shipping name

| ADR / RID: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE; CHRYSANTHEMUM |
| :--- | :--- |
|  | CINERARIAEFOLIUM) |
| IMDG: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE; CHRYSANTHEMUM |
|  | CINERARIAEFOLIUM) |
| IATA: | ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PIPERONYL BUTOXIDE; CHRYSANTHEMUM |
|  | CINERARIAEFOLIUM) |

### 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 <br> Hazardous |
| :--- | :--- |
| IMDG: | Marine Pollutant |
| IATA: | Environmentally | Hazardous


14.6. Special precautions for user

| ADR / RID: | HIN - Kemler: 90 |
| :--- | :--- |
| IMDG: | Special provision: |
| EMS: F-A, S-F |  |
| IATA: | Cargo: |
|  | Pass.: |
|  | Special provision: |


| Limited | Tunnel <br> restriction <br> code: $(-)$ |
| :--- | :--- |
| Quantities: 5 |  |
| Limited |  |
| Quantities: 5 |  |
| L |  |
| Maximum | Packaging |
| quantity: 450 | instructions: |
| L | 964 |
| Maximum | Packaging |
| quantity: 450 | instructions: |
| L | 964 |
| A97, A158, |  |

### 14.7. Maritime transport in bulk according to IMO instruments

Information not relevant

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| :---: | :---: | :---: |
|  | PIRETRO RTU |  |

## SECTION 15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Seveso Category - Directive 2012/18/EU: E2

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

Product
Point 3

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 $\geq$ than $0,1 \%$.

Substances subject to authorisation (Annex XIV REACH)

None

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

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 $(\mathrm{H})$ indications mentioned in section 2-3 of the sheet:

| Acute Tox. 4 | Acute toxicity, category 4 |
| :--- | :--- |
| Eye Dam. 1 | Serious eye damage, category 1 |


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| :--- | :--- | :--- |
|  |  |


| Eye Irrit. 2 | Eye irritation, category 2 |
| :--- | :--- |
| Skin Irrit. $\mathbf{2}$ | Skin irritation, category 2 |
| STOT SE 3 | Specific target organ toxicity - single exposure, category 3 |
| 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 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment, chronic toxicity, category 2 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic toxicity, category 3 |
| H302 | Harmful if swallowed. |
| H332 | Harmful if inhaled. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H315 | Causes skin irritation. |
| H335 | May cause respiratory irritation. |
| H317 | May cause an allergic skin reaction. |
| H400 | Very toxic to aquatic life. |
| H410 | Very toxic to aquatic life with long lasting effects. |
| 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

- 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)
4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament

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| :---: | :--- | :--- |

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)
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

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.

Decreto Legislativo 25 Febbraio 2000, n. 174 "Attuazione della direttiva 98/8/CE in materia di immissione sul mercato di biocidi"
Decreto del Presidente della Repubblica 6 Ottobre 1998, n. 392 "Regolamento recante norme per la semplificazione dei procedimenti di autorizzazione alla produzione ed all'immissione in commercio di presidi medico-chirurgici, a norma dell'articolo 20, comma 8, della legge 15 Marzo 1997 , n. 59.

Changes to previous review:
The following sections were modified:
$01 / 02$ / $03 / 04$ / $05 / 06 / 07 / 08 / 09 / 10 / 11 / 12 / 13 / 14 / 15 / 16$

