



## KRYON 404A

Precautionary statements:

**P410+P403** Protect from sunlight. Store in a well-ventilated place.

### 2.3. Other hazards

Asphyxiant in high concentrations. Contact with liquid can cause cryogenic burns.

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

Contains:

Identification	Conc. %	Classification (EC) 1272/2008 (CLP)
<b>1,1,1 - TRIFLUOROETHANE (R143a)</b>		
INDEX -	52	Flam. Gas 1A H220, Press. Gas (Liq.) H280
EC 206-996-5		
CAS 420-46-2		
REACH Reg. 01-2119492869-13-XXXX		
<b>PENTAFLUOROETHANE</b>		
INDEX -	44	Press. Gas (Comp.) H280
EC 206-557-8		
CAS 354-33-6		
REACH Reg. 01-2119485636-25-XXXX		
<b>NORFLURANE</b>		
INDEX -	4	Press. Gas (Liq.) H280
EC 212-377-0		
CAS 811-97-2		
REACH Reg. 01-2119459374-33-XXXX		

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

No episodes of harm to the staff authorised to use the product have been reported. The following general measures should be adopted as necessary:

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

**INGESTION:** Get medical advice/attention. Induce vomiting only if indicated by the doctor. Do not give anything by mouth to an unconscious person.

**EYES:** Remove any contact lenses. Wash immediately and abundantly with water for at least 30/60 minutes, opening the eyelids wide. Consult a doctor immediately if the patient shows signs of frostbite, pain, swelling, tearing or persistent photophobia or damage caused by high pressure jets.

**SKIN:** In case of accidental contact with the skin, take the first aid measures specified below:

Do not remove clothing that adheres to burned skin.

Rinse immediately contaminated areas with warm (not boiling) water and continue for at least 15 minutes.

If the patient has signs of frostbite (whitening or redness of the skin or burning or tingling sensation) do not rub, massage or press the affected area. Consult a doctor immediately.

**PROTECTIVE MEASURES FOR THE FIRST RESCUE WORKERS:** for PPE (personal protection equipment) required for first aid refer to section 8.2 of this safety data sheet.

**KRYON 404A****4.2. Most important symptoms and effects, both acute and delayed**

Contact with skin can cause cold burns.

Inhalation of high concentrations may cause depression of the central nervous system with the following effects: dizziness, weakness, nausea, headache, anesthetic effects, possible unconsciousness, light-headedness, confusion, lack of coordination, drowsiness, irregular heartbeat with a strange feeling in the chest, heart pounding, apprehension, feeling faint, dizzy or weak.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

In case of accident or if you feel unwell, seek medical advice immediately (show directions for use or safety data sheet if possible).

**SECTION 5. Firefighting measures****5.1. Extinguishing media**

SUITABLE EXTINGUISHING EQUIPMENT

Water spray.

UNSUITABLE EXTINGUISHING EQUIPMENT

Water jets.

**5.2. Special hazards arising from the substance or mixture**

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE

Exposure to fire may cause containers to rupture or explode.

Under certain high pressure conditions, mixtures of the product with air/oxygen may become flammable.

Avoid mixtures with air/oxygen at pressures above atmospheric.

Thermal decomposition of the substance produces toxic gas (carbon oxides, hydrogen fluoride, fluorocarbons, carbonyl fluoride).

**5.3. Advice for firefighters**

GENERAL INFORMATION

Exposure to flame and heat can cause the container to break. Cool the containers with jets of water to avoid overpressure. Always wear full fire prevention gear.

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****6.1.1 For non-emergency personnel**

Remove all sources of ignition (cigarettes, flames, sparks, electricity, etc.) or heat from the area where the leak occurred and ensure adequate ventilation. Evacuate the surrounding areas and prevent the entry of external and unprotected personnel. Notify emergency crews.

Stop the leak if there is no danger. Do not handle damaged containers or leaked product without first donning the appropriate protective equipment. Avoid breathing the gas. For information relating to environmental and health risks, respiratory protection, ventilation and personal protective equipment, refer to section 8.

**6.1.2 For emergency responders**

Asphyxiant gas. When release of asphyxiating gases is possible, oxygen detectors should be used.

Considering the hermetic nature of the container, it is rather unlikely that considerable spillages can occur. However, in the event that any container is damaged such as to cause a leak, insulate the container in question by placing it in the open air or by covering it with inert and non-combustible material (eg sand, earth, vermiculite). Stay upwind.

**6.2. Environmental precautions**

Stop the spill if possible and there is no danger. Ensure adequate ventilation, avoid confined spaces, including underground spaces.

Prevent dispersion in the environment and underground spaces (tunnels, caves, etc ...).

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### 6.3. Methods and material for containment and cleaning up

Provide sufficient ventilation of the place affected by the leak and allow the product to evaporate, favoring its dispersion. 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

Use closed installations and systems. Ensure adequate ventilation and/or extraction in the workplace. Do not breathe the gas. The pressurized gas must be handled in accordance with good safety and industrial hygiene practices and can only be handled by experienced and suitably trained personnel. Avoid release of product into work area. Not smoking. Make sure that the entire gas distribution system has been (or is regularly) checked for leaks before use.

### 7.2. Conditions for safe storage, including any incompatibilities

Store in a place where adequate ventilation is ensured, away from direct sunlight at a temperature below 50°C / 122°F, away from any combustion sources.

### 7.3. Specific end use(s)

No use other than as indicated in section 1.2 of this safety data sheet

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

Regulatory References:

GBR United Kingdom EH40/2005 Workplace exposure limits (Fourth Edition 2020)

### NORFLURANE

Threshold Limit Value								
Type	Country	TWA/8h		STEL/15min		Remarks / Observations		
		mg/m3	ppm	mg/m3	ppm			
WEL	GBR	4240	1000					
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,1		mg/l		
Normal value in marine water				0,01		mg/l		
Normal value for fresh water sediment				0,75		mg/kg/d		
Normal value for water, intermittent release				1		mg/l		
Normal value of STP microorganisms				73		mg/l		
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
Inhalation				2476 mg/m3			VND	13936 mg/m3

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Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,1				mg/l
Normal value for fresh water sediment				0,6				mg/kg/d
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
Inhalation				1753 mg/m3				16444 mg/m3

1,1,1 - TRIFLUOROETHANE (R143a)								
Predicted no-effect concentration - PNEC								
Normal value in fresh water				0,35				mg/l
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
Inhalation				10700 mg/m3				38800 mg/m3

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

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).

In the identification phase of the relevant material and the relative thickness to be used, it is highly recommended to deal directly with the PPE manufacturer to evaluate the effective protection with regard to the specific characteristics of the same on the basis of use and duration of use.

The following must be considered: compatibility, degradation, breakthrough time and permeation. The gloves have a wear time that depends on the duration and method of use. Latex gloves can give rise to sensitization phenomena.

#### THERMAL HAZARDS

Wear cryogenic gloves during the transfer operations or any other operation which may involve contact with the refrigerated gas (ref. UNI EN 511 standard).

#### SKIN PROTECTION

Wear category I professional long-sleeved overalls and safety footwear (see Regulation 2016/425 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

A mask with a type A filter combined with a type P filter should be worn (see standard EN 14387).

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.

#### ENVIRONMENTAL EXPOSURE CONTROLS

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

## SECTION 9. Physical and chemical properties

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

## KRYON 404A

Properties	Value	Information
Appearance	Liquefied gas	
Colour	colourless	
Odour	mild	
Melting point / freezing point	not available	
Initial boiling point	-47,8 °C	
Flammability	not flammable	
Lower explosive limit	not available	
Upper explosive limit	not available	
Flash point	not applicable	
Auto-ignition temperature	not available	
Decomposition temperature	not available	
pH	7	
Kinematic viscosity	not available	
Solubility	Very slightly soluble in cold water, hot water	
Partition coefficient: n-octanol/water	log Pow 1,06	Substance: 1,1,1,2-tetrafluoroethane
Vapour pressure	12.610 hPa (21,1°C)	
Density and/or relative density	1,08 g/cm <sup>3</sup> (21,1°C)	
Relative vapour density	3,4 (Air = 1.0)	
Particle characteristics	not applicable	

**9.2. Other information**

## 9.2.1. Information with regard to physical hazard classes

Information not available

## 9.2.2. Other safety characteristics

Information not available

**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**

Strong heating of the containers leads to an increase in the pressure and volume of the liquefied gas and can cause the container to burst.

**NORFLURANE**

May react violently in contact with alkali, alkaline-earth metals.

Under certain high pressure conditions, mixtures of the product with air/oxygen may become flammable.

**10.4. Conditions to avoid**

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Avoid overheating.

**10.5. Incompatible materials**

Strong reducing or oxidising agents, strong acids or alkalis, hot material.

**NORFLURANE**

Finely divided metals , alkali metals ( sodium , potassium ) , alkaline earth metals ( barium , magnesium ) , alloys containing more than 2% magnesium

**10.6. Hazardous decomposition products**

Hydrogen fluoride (HF), carbon monoxide (CO), carbonyl fluoride reactions COF<sub>2</sub>, Carbonyl Fluoride.

**SECTION 11. Toxicological information**

According to currently available data, this product has not yet produced health damages. Anyway, it must be handled according to good industrial practices.

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

ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

**PENTAFLUOROETHANE**

LC50 (Inhalation gas):	> 800000 ppm/4h Rat (OECD 403)
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**1,1,1 - TRIFLUOROETHANE (R143a)**

LC50 (inhalation/gas) > 591000 ppm (4h) (Rat; equivalent or similar to a OECD 403).

**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

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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**

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

**12.1. Toxicity**

## NORFLURANE

LC50 - for Fish	450 mg/l/96h (Oncorhynchus mykiss; EU C.1)
EC50 - for Crustacea	980 mg/l/48h (Daphnia magna; EU C.2)
EC50 - for Algae / Aquatic Plants	> 118 mg/l/72h (OECD 201)

## PENTAFLUOROETHANE

LC50 - for Fish	> 81,8 mg/l/96h (Oncorhynchus mykiss; OECD 203)
EC50 - for Crustacea	> 97,9 mg/l/48h (Daphnia magna; OECD 202)
EC50 - for Algae / Aquatic Plants	> 114 mg/l/72h (Raphidocelis subcapitata; OECD 201)

## 1,1,1 - TRIFLUOROETHANE (R143a)

EC50 - for Crustacea	390 mg/l/48h (Daphnia magna; OECD 202)
EC50 - for Algae / Aquatic Plants	71 mg/l/72h (ECOSAR v0.99g)
LC10 for Fish	40 mg/l/96h (Oncorhynchus mykiss; OECD 203)

**12.2. Persistence and degradability**

## NORFLURANE

Not rapidly degradable, 3% in 28 days (OECD 301 D).

## PENTAFLUOROETHANE

Not rapidly biodegradable, 5% in 28 days (OECD 301 D).

**12.3. Bioaccumulative potential**

Information not available

**12.4. Mobility in soil**



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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. (Directive 2008/98/EC and subsequent amendments and adjustments and related national transpositions). Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.

The legal responsibility for disposal is the producer / holder of the waste.

To this mixture different CER codes could be applied (European Waste Code) based on the specific circumstances that generated the waste, possible alterations and / or possible contamination.

The product as such, contained in the original packaging, or decanted in an appropriate container for the purpose of disposal, or no longer usable (for example following an accidental spill), must be classified with a CER code that is compatible with the description of the use indicated in section 1.2.

The suitable final destination of the waste must be evaluated by the manufacturer on the basis of the chemical-physical characteristics of the waste, the compatibility with the authorized facility to which it will be given for recovery, and the definitive treatment or disposal according to the procedures established by current regulations .

Disposal through wastewater discharge is not permitted.

For hazardous substances registered according to Regulation EC 1907/2006 (REACH), for which a chemical safety report has been drawn up, refer to the specific information contained in the exposure scenarios attached to this SDS.

**CONTAMINATED PACKAGING**

Contaminated packaging must be sent, properly labeled, to recovery or disposal in compliance with national waste management regulations and must be classified with the following CER code:

**15 01 10\***: packaging containing residues of or contaminated by dangerous substances.

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

ADR / RID, IMDG, IATA: 3337

**14.2. UN proper shipping name**

ADR / RID: REFRIGERANT GAS R 404A

IMDG: REFRIGERANT GAS R 404A

IATA: REFRIGERANT GAS R 404A

**14.3. Transport hazard class(es)**

**KRYON 404A**

ADR / RID:	Class: 2	Label: 2.2
IMDG:	Class: 2	Label: 2.2
IATA:	Class: 2	Label: 2.2



**14.4. Packing group**

ADR / RID, IMDG, IATA: -

**14.5. Environmental hazards**

ADR / RID:	NO
IMDG:	NO
IATA:	NO

**14.6. Special precautions for user**

ADR / RID:	HIN - Kemler: 20	Limited Quantities: 0,12 L	Tunnel restriction code: (C/E)
	Special provision: 662		
IMDG:	EMS: F-C, S-V	Limited Quantities: 0,12 L	
IATA:	Cargo:	Maximum quantity: 150 Kg	Packaging instructions: 200
	Passengers:	Maximum quantity: 75 Kg	Packaging instructions: 200
	Special provision:	-	

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

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/EU: None

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

Product

Point *40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to that Regulation or not.*

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

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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

Information not available

Regulation (UE) n. 517/2014 (fluorinated greenhouse gases)

Substances present in Annex I

Industrial designation	Chemical name	Chemical formula	GWP
HFC-134a	1,1,1,2-tetrafluoroethane	CH <sub>2</sub> FCF <sub>3</sub>	1430
HFC-143a	1,1,1-trifluoroethane	CH <sub>3</sub> CF <sub>3</sub>	4470
HFC-125	pentafluoroethane	CHF <sub>2</sub> CF <sub>3</sub>	3500

### 15.2. Chemical safety assessment

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

## SECTION 16. Other information

### Classification according to Regulation (EC) Nr. 1272/2008

Under pressure gas, Liquefied gas, H280 - Contains gas under pressure; may burst if heated.

### Classification procedure

Expert judgement

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

<b>Flam. Gas 1A</b>	Flammable gas, category 1A
<b>Press. Gas (Liq.)</b>	Liquefied gas
<b>Press. Gas (Comp.)</b>	Compressed gas
<b>H220</b>	Extremely flammable gas.
<b>H280</b>	Contains gas under pressure; may explode if heated.

LEGEND:

## KRYON 404A

- 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
  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 the recipient of the Safety Data Sheet (SDS):**

The recipient of this SDS shall make sure of reading and understanding the information included by all people who handle, store, use, or otherwise come into contact in any way with the substance or mixture to which this SDS is referred to. In particular, the recipient shall provide adequate training to the

**Safety Data Sheet**According to Annex II to REACH - Regulation (EU) 2020/878  
and to Annex II to UK REACHEd. 23/03/2023  
Revision N° 02  
Replaced revision of 01/02/2016  
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personnel for the use of hazardous substances and/or mixtures. The recipient shall verify the suitability and completeness of the provided information according to the specific use of the substance or mixture.

However, the substance or mixture referred to by this SDS shall not be used for uses other than those specified in Section 1. The Supplier don't assume responsibility for improper uses. Since the use of the product does not fall under the direct control of the Supplier, the user shall, under his own responsibility, fulfill national and EU regulations concerning health and safety.

The information included in this SDS are provided in good faith and are based on the current state of scientific and technical knowledge, at the revision date indicated, available to the Supplier indicated in Section 1 of this SDS. It shall not be meant that the SDS is a guarantee of any specific property of the substance or mixture. The information concern only to the substance or mixture specifically designated in Section 1 and it could not be valid for the substance or mixture used in combination with other materials or in any process not specified in the text.

This version of the SDS substitutes all the previous versions.

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.