

Product name / chemical name: R600 / Butane

SDS according to setting: EU 2015/830

(\*) only chemical-announcement

(\*\*) to be filled either 3.1 or 3.2

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY/UNDERTAKING**

1.1 Product identifier	
<b>Product / Trade name</b>	R600 Refrigerant
<b>Chemical name, formula</b>	C <sub>4</sub> H <sub>10</sub> 100 % (% by weight)
<b>CAS No, EC No, REACH-reg.no</b>	Butane, CAS 106-97-8, EC 203-448-7, REACH 01-2119474691-32 (100 %)

1.2 Relevant identified uses of the substance	
<b>Identified uses</b>	Industrial and professional use. Perform risk assessment prior to use. Refrigerant. Filling gas or filler fluid Use of gas alone or in mixtures for the calibration of analytical equipment.
<b>Use advised against</b>	Consumer use.

1.3 Details of the supplier of the safety data sheet	
Darment Oy	
<b>VAT</b>	FI09368266
<b>Address</b>	Ruosilantie 18
<b>Postal code and city</b>	FI-00390 HELSINKI
<b>Telephone</b>	+358 20 5588 250
<b>E-mail</b>	info@darment.fi
<b>www-site, www-shop site</b>	darment.fi, kauppa.darment.fi

**Emergency telephone numbers in Finland**

tel. 112

**Emergency tel. your country:** \_\_\_\_\_tes. **0800 147 111**, HUS Poison Information Center (free calls), tel. **09 471 977**, open 24 h/day.**SECTION 2: HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture****Classification accordint to Regulation (EU) N:o 1272/2008 as amended.****Physical Hazards**

Gases under pressure

Liquefied gas


H220: Extremely flammable gas.

H280: Contains gas under pressure; may explode if heated.

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## 2.2 Label Elements

<p><b>GHS Hazard Pictogram(s)</b></p>  <p><b>Signal Word: Danger</b></p>	<p><b>Hazard Statement(s):</b></p> <p>H220 Extremely flammable gas. H280 Contains gas under pressure; may explode if heated.</p> <p><b>Precautionary Statements</b></p> <p><i>Prevention</i> None <i>Response</i> None <i>Storage</i> P102 Keep out of reach of children P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources - No smoking. P243 Take actions to prevent static discharges P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely. P381 In case of leakage, eliminate all ignition sources. P410 + P403 Protect from sunlight. Store in a well-ventilated place.</p> <p><i>Disposal</i> None</p> <p><b>Supplemental label information:</b> Asphyxiant in high concentrations.</p>
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## 2.3 Other hazards

Vapors are heavier than air and may accumulate in wells and cause asphyxiation.

Contact with evaporating liquid may cause frostbite or freezing of skin.

## SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1 Substances

Chemical name, trade name	CAS No, EC-No, REACH Reg. No	Concentration (% by weight)	Classification CLP
Butane, C <sub>4</sub> H <sub>10</sub> , R600	CAS 106-97-8 EC 203-448-7 REACH 01-2119474691-32	100 %	Flam. Gas 1A; H220 Press. Gas Liquefied Gas; H280

All concentrations are nominal. Classification, CLP Regulation No. 1272/2008.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

**Inhalation:** In high concentrations may cause asphyxiation. Symptoms may include loss of mobility or consciousness. Victim may not be aware of asphyxiation. Remove victim to uncontaminated area wearing self contained breathing apparatus. Keep victim warm and rested. Call a doctor or 112. Apply artificial respiration if breathing stopped.

**Skin contact:** Contact with evaporating liquid may cause frostbite or freezing of skin. Thaw frosted parts with lukewarm water. Do not rub affected area. Do not remove clothing.

**Eye contact:** Rinse the eye with water immediately. Continue rinsing. Flush thoroughly with water for at least 15 minutes. Get immediate medical assistance.

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**Ingestion:** Ingestion is not considered a potential route of exposure.

**4.2 Most important symptoms and effects, acute and delayed**

Respiratory arrest. Contact with liquefied gas can cause damage (frostbite) due to rapid evaporative cooling. Shortness of breath.

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

**Hazards:** Respiratory arrest. Contact with liquefied gas can cause damage (frostbite) due to rapid evaporative cooling,

**Treatment:** Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.

**SECTION 5: FIREFIGHTING MEASURES**

Extremely flammable gas.  
Heat may cause the containers to explode.

**5.1 Extinguishing media**

**Suitable extinguishing media:** Extinguishing powder; Water spray jet, Water mist, foam  
**Unsuitable Extinguishing media:** High power water jet, carbon dioxide (CO<sub>2</sub>)

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

Flammable gas. Fire or excessive heat may cause violent rupture of the containers. Formation of flammable or explosive vapour/air mixtures possible. Vapours are heavier than air. Keep all ignition sources out of area. In case of fire cool endangered containers with water.

**5.3 Advice for firefighters**

**Special fire fighting procedures:** Containers close to fire should be transferred to a safe place. Cool closed containers exposed to fire with water. Stop leak if safe to do so. Use extinguishant. Isolate the source of the fire or let it burn out.

Follow the internal emergency plan and general accident and emergency guidelines.

Depending on the intensity of the fire, it may be necessary to wear full protective clothing and self-contained breathing apparatus. Safety equipment and first aid equipment must be available at the minimum level.

**Firefighters** must wear standard protective equipment: a fire-resistant jacket, a helmet with a face shield, gloves and rubber boots even in an enclosed area with an oxygen device.

**Instructions:** EN 469 Protective clothing for firefighters. Requirements and test methods for fire rating. EN 15090 Safety footwear for firefighters. EN 659 Protective gloves for firefighters. EN 443 Helmets for fire fighting in houses and others constructions. Standard EN 137 Compressed air breathing apparatus - Portable open circuit compressed air devices - Requirements, testing, marking.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES****6.1 Personal precautions, protective equipments and emergency procedures**

Risk of explosion. Evacuate area. Provide adequate ventilation.

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.

Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.

Standard EN 137 Respiratory protective devices – Self-contained open-circuit compressed air breathing apparatus with full face mask – Requirements, testing, marking.

**6.2 Environmental precautions**

The product is not classified as dangerous for the environment. Keep away from drains, surface and ground water. Prevent further leakage or spillage if safe to do so.

**6.3 Methods and material for containment and cleaning up**

Use explosion-proof equipment, no sparking tools allowed. Provide adequate ventilation, allow to evaporate.

**6.4 References to other sections**

Refer to sections 8 and 13.

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**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling**

- Only experienced and properly instructed persons should handle gases under pressure.
- Use only properly specified equipment which is suitable for this product, its supply pressure and temperature.
- Refer to supplier's handling instructions.
- The substance must be handled in accordance with good industrial hygiene and safety procedures.
- Protect containers from physical damage; do not drag, roll, slide or drop.
- Do not remove or deface labels provided by the supplier for the identification of the container contents.
- When moving containers, even for short distances, use appropriate equipment eg. trolley, hand truck, fork truck etc.
- Secure cylinders in an upright position at all times, close all valves when not in use.
- Provide adequate ventilation.
- Suck back of water into the container must be prevented.
- Do not allow backfeed into the container.
- Avoid suckback of water, acid and alkalis.
- Keep container below 50°C in a well ventilated place.
- Observe all regulations and local requirements regarding storage of containers.
- When using do not eat, drink or smoke.
- Observe all legal and local requirements for the storage of cylinders / containers.
- Never use direct flame or electrical heating devices to raise the pressure of a container.
- Leave valve protection caps in place until the container has been secured against either a wall or bench or placed in a container stand and is ready for use.
- Damaged valves should be reported immediately to the supplier Close container valve after each use and when empty, even if still connected to equipment.
- Never attempt to repair or modify container valves or safety relief devices.
- Replace valve outlet caps or plugs and container caps where supplied as soon as container is disconnected from equipment.
- Keep container valve outlets clean and free from contaminates particularly oil and water.
- If user experiences any difficulty operating container valve discontinue use and contact supplier.
- Never attempt to transfer gases from one container to another.
- Container valve guards or caps should be in place.

**7.2 Conditions for safe storage including any incompatibilities**

- Containers should not be stored in conditions likely to encourage corrosion.
- Stored containers should be periodically checked for general conditions and leakage.
- Container valve guards or caps should be in place.
- Store containers in location free from fire risk and away from sources of heat and ignition.
- Keep away from combustible material, oxidizing agents and substances, explosive substances.

**7.3 Specific end use(s)**

None.

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## SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

### 8.1 Control parameters

#### Occupational exposure limit values

Critical ingredient	STM 09/2018 htp-values	ppm	mg/m <sup>3</sup>
Butane	15 min	1000	2400
	8 h	800	1900

### 8.2 Exposure controls

#### Appropriate engineering controls

- Consider a work permit system e.g. for maintenance activities.
- Ensure adequate ventilation including exhaust ventilation to ensure that the specified exposure limit value is not exceeded.
- Systems under pressure should be regularly checked for leakages.
- Preferably use permanent leak tight connections (eg. welded pipes).
- Do not eat, drink or smoke when using the product.

#### Individual protection measures like personal protective equipment

**General information:** A risk assessment should be conducted and documented in each work area to assess the risks related to the use of the product and to select the PPE that matches the relevant risk. The following recommendations should be considered. Keep self contained breathing apparatus readily available for emergency use. Personal protective equipment for the body should be selected based on the task being performed and the risks involved.

#### Eye and face protection

To avoid exposure to liquid splashes, safety glasses, eye protection or face shields should be used in accordance with EN 166. (Instructions: EN 166 Personal Eye Protection.)

#### Skin protection: see Hand and Face protection

**Hand protection:** Wear working gloves while handling containers. (Guidelines: EN 388 Protective gloves against mechanical risks)

**Body protection:** No special precautions.

**Other:** Wear safety shoes while handling containers.

Guideline: ISO 20345 Personal protective equipment – safety footwear.

**Respiratory protection:** Respiratory filter type AX (gas).

**Thermal hazards:** No precautionary measures are necessary.

**Hygiene measures:** Specific risk management measures are not required beyond good industrial hygiene and safety procedures. Do not eat, drink or smoke when using the product.

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**Environmental exposure controls:** Waste disposal, see sec. 13.**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

<b>Appearance, physical state, form and color</b>	Liquefied gas, colorless.
<b>Odor</b>	petrol-like
<b>Odor threshold</b>	No data available
<b>pH</b>	No data available
<b>Melting point</b>	- 138,2 °C
<b>Boiling point (°C)</b>	- 0,5 °C
<b>Critical temperature (°C)</b>	152,0 °C
<b>Flash point</b>	- 60 °C
<b>Evaporation rate</b>	Not applicable
<b>Flammability (solid, gas)</b>	Extremely flammable gas.
<b>Flammability limit upper / lower</b>	Lower flammability limit 1,4 % (V)
<b>Vapor pressure</b>	242,65 kPa (25 °C)
<b>Vapor density (air=1)</b>	2,07 (0 °C)
<b>Relative density</b>	0,589 g/cm <sup>3</sup> (-25 °C)
<b>Solubility (Water)</b>	61,2 mg/l
<b>Partition coefficient, n-oktanol/water</b>	Log Pow 2.8 (20 °C)
<b>Autoignition temperature</b>	287 °C
<b>Decomposition temperature</b>	435 °C
<b>Viscosity, kinematic</b>	Not applicable
<b>Viscosity, dynamic</b>	0,007 mPa.s
<b>Explosive properties</b>	May form explosive gas-air mixtures
<b>Oxidizing properties</b>	No data available

**9.2 Other information**

Gas/vapour is heavier than air. May accumulate in confined spaces, particularly at or below ground level.

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**SECTION 10: STABILITY AND REACTIVITY****10.1 Reactivity**

Not classified as reactivity hazard.

**10.2 Chemical stability**

Stable under normal conditions.

**10.3 Possibility of hazardous reactions**

Hazardous reactions will not occur under normal transport or storage conditions

**10.4 Conditions to avoid**

Flames, heat and sparks. Sources of ignition. Do not expose to strong oxidizing agents. Risk of formation of explosive gas mixtures in the air.

**10.5 Incompatible materials**

Oxidizing agents, humidity.

**10.6 Hazardous decomposition products**

None

**SECTION 11: TOXICOLOGICAL INFORMATION****11.1 Information on toxicological effects****General information:** None.**Acute toxicity /Oral**

Product: Based on the available data, the classification criteria are not met.

**Acute toxicity /Dermal**

Product: Based on the available data, the classification criteria are not met.

**Product information****Acute toxicity / Inhalation**

Butane	LC <sub>50</sub> (Rat 15 min)	800000 ppm
	LC <sub>50</sub> (Rat 15 min)	1442,738-1443 mg/l air
	LC <sub>50</sub> (Mouse 2 h)	520400 - 539600 ppm
	LC <sub>50</sub> (Mouse 2 h)	1237 mg/l air

**Repeated dose toxicity**

Butane	NOAEC (Rat)	4000 - 16000 ppm
	NOAEC (Rat)	7214 – 21394 mg/l air
	LOAEC (Rat)	12000 ppm
	LOAEC (Rat)	21641 mg/l air



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**Skin corrosion / irritation**

Product: Based on the available data, the classification criteria are not met.

**Serious eye damage / eye irritation**

Product: Based on the available data, the classification criteria are not met.

**Respiratory or skin sensitization**

Product: Based on the available data, the classification criteria are not met.

**Germ cell mutagenicity**

Product: Based on the available data, the classification criteria are not met.

**Carcinogenicity**

Product: Based on the available data, the classification criteria are not met.

**Reproductive toxicity**

Product: Based on the available data, the classification criteria are not met.

**Specific target organ toxicity – single exposure**

Product: Based on the available data, the classification criteria are not met.

**Specific target organ toxicity – repeated exposure**

Product: Based on the available data, the classification criteria are not met.

**Aspiration hazard**

Not applicable to gases and gas mixtures.

**Other relevant toxicity information**

None

**SECTION 12: ECOLOGICAL INFORMATION****12.1 Toxicity****Acute toxicity, Product** No ecological damage caused by this product.**Acute toxicity – Fish:****Butane** LC<sub>50</sub> (4 days) 24,11 – 147,54 mg/l**Acute toxicity – Aquatic invertebrates:****Butane** LC<sub>50</sub> (48 h) 14,22 – 69,43 mg/l**Toxicity to Aquatic Plants****Butane** EC<sub>50</sub> (4 days) 7,71 – 19,37 mg/l**12.2 Persistence and degradability**

Readily biodegradable.

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**12.3 Bioaccumulative potential**

No data available.

**12.4 Mobility in soil**

No data available.

**12.5 Results of PBT and vPvB**

This product is not identified as a PBT/vPvB substance.

**12.6 Other adverse effects****Ozone depletion potential (ODP):** 0**Global Warming Potential (GWP):** 4

When discharged in large quantities may contribute to the greenhouse effect.

For GWP value of product and quantities, refer to container label.

**Butane**

EU. Regulation 517/2014/EU on FGGs- Global warming potential: 4, Annex IV: Method of calculating the total GWP of a mixture: The GWP of the following non-fluorinated substances are used to calculate the GWP of mixtures.

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods**

Waste type (EU Commission Regulation 1357/2014): HP3. Waste type: Flammable.

**General information:**

Do not discharge to atmosphere. Do not discharge into any place where its accumulation could be dangerous. Refer to manufacturer or supplier for information on recovery or recycling.

**Disposal methods**Refer to the EIGA code of practice (Doc.30 "Disposal of Gases", <http://www.eiga.org>) for more guidance on suitable disposal methods. Dispose of container via supplier only. Discharge, treatment, or disposal may be subject to national, state or local laws.**European Waste Codes:**

Container: 16 05 04\*: gases in pressure containers (including halons) containing hazardous substances.

EU legislation: Directive 2008/98/ETY, 2014/955/EU, EU Commission Regulation nr 1357/2014.

National legislation (FI): Waste Act, 646/2011, 1104/2011, 195/2012, 1178/2013, 25/2014, 410/2014, 528/2014, 1062/2015, 1518/2015, 328/2016, 996/2016, 626/2017, 834/2017, 321/2018, 445/2018, 686/2018, 757/2018, 967/2018, 247/2019, 438/2019, 1421/2019.

**SECTION 14: TRANSPORT INFORMATION****14.1 UN Number**

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**ADR**

14.1 UN Number	UN 1011
14.2 UN Proper Shipping Name	BUTANE
14.3 Transport Hazard Classes	2
14.4 Packing Group	–
Classification code	2F
Hazard No.	23
Labels	2.1
Tunnel restriction code	(B/D)
14.5 Environmental Hazards	Not applicable
14.6 Special precautions for users	–

**RID**

14.1 UN Number	UN 1011
14.2 UN Proper Shipping Name	BUTANE
14.3 Transport Hazard Classes	2
14.4 Packing Group	–
Class	2F
Labels	2.1
14.5 Environmental Hazards	Not applicable
14.6 Special precautions for user:	–

**IMDG**

14.1 UN Number	UN 1011
14.2 UN Proper Shipping Name	BUTANE
14.3 Class	2.1
14.3 Packing Group	–
Labels	2.1
EmS No.	F-D, S-U
14.5 Environmental Hazards	Not applicable
14.6 Special precautions for user	–

**IATA**

14.1 UN Number	UN 1011
14.2 UN Proper Shipping Name	BUTANE
14.3 Transport Hazard Classes	2.1
14.4 Packing Group	–
Packing instructions (cargo)	200
Packing instructions (pass.)	Not permitted for transport
Class	2.1
14.5 Environmental Hazards	Not applicable
14.6 Special precautions for user	–
Other information	

**14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

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**Additional instructions:**

- Avoid transport on vehicles where the load space is not separated from the driver's compartment.
- Ensure vehicle driver is aware of the potential hazards of the load and knows what to do in the event of an accident or an emergency.
- Before transporting product containers ensure that they are firmly secured.
- Ensure that the container valve is closed and not leaking.
- Container valve guards or caps should be in place.
- Ensure adequate air ventilation

**SECTION 15: REGULATORY INFORMATION****15.1 Safety, health and environmental regulations / legislation specific for the substance or mixture****EU Regulations**

- Regulation (EC) No 517/2014 on fluorinated greenhouse gases
- Regulation (EC) No 1907/2006 – Annex XVII – Restrictions on manufacture, placing on the market and use of certain dangerous substances, mixtures and articles.
- Council Directive 89/391/EEC on the introduction of measures to encourage improvements in the safety and health of workers at work.
- Regulation (EU) 2016/425 on personal protective equipment.
- Directive 2014/34/EU on equipment and protective systems intended for use in potentially explosive atmospheres (ATEX).
- Only products that comply with the food regulations (EC) No. 1333/2008 and (EU) No. 231/2012 and are labelled as such may be used as food additives.
- This Safety Data Sheet has been produced to comply with Regulation (EU) 2015/830.

**National regulations:**

- Chemicals Act 599/2013
- Act amending the Chemicals Act 554/2014, 746/2016, 199/2017, 656/2018, 756/2018, 711/2020.
- Classification and Labeling of Chemicals 807/2001: amendment 687/2005, 206/2007, 655/2008,6/2010
- Government Decree on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products 837/2005.
- Government Decree on the limitation of emissions to air from certain activities and Installations using organic solvents 64/2015
- Waste Act, 646/2011, 1104/2011, 195/2012, 1178/2013, 25/2014, 410/2014, 528/2014, 1062/2015, 1518/2015, 328/2016, 996/2016, 626/2017, 834/2017, 321/2018, 445/2018, 686/2018, 757/2018, 967/2018, 247/2019, 438/2019, 1421/2019.
- Concentrations known as harmful 268/2014

**15.2 Chemical safety assessment**

A Chemical Safety Assessment has been carried out.

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**SECTION 16: OTHER INFORMATION****Revision information:** -**Data sources of this SDS**

Safety Data Sheet provided by the manufacturer.  
Legislation on hazardous chemicals valid at the time of writing.  
European Chemicals Agency, Guidance on the compilation of safety data sheets / REACH Regulation (EU) 1907/2006, ARTICLE 31: Requirements for safety data sheets.  
European Chemicals Agency, Information on registered substances.  
International Programme on Chemical Safety.

**WWW-SOURCES**[echa.europa.eu](http://echa.europa.eu)[eiga.org](http://eiga.org)[esis.jrc.ec.europa.eu](http://esis.jrc.ec.europa.eu)[eur-lex.europa.eu](http://eur-lex.europa.eu)[atsdr.cc.gov](http://atsdr.cc.gov)[www.lvm.fi/en/home](http://www.lvm.fi/en/home)<http://toxnet.nlm.nih.gov/><http://www.who.int/ipcs/en/>[www.ericards.net](http://www.ericards.net)**Rating methods of classification**

Regulation (EU) No 1272/2008 (CLP), Regulation on classification, labeling and packaging of substances and mixtures.

**Precautionary, Wording of the H-statements in section 2 and 3**

H220 Extremely flammable gas

H280 Contains gas under pressure, may explode on heated.

**Classification according to Regulation (EC) N:o 1272/2008 as amended**

Flam. Gas. 1, H220

Press. Gas Liquefied Gas; H280

**Training information**

It is recommended that persons handling the product have minimum training in the prevention and protection of work-related hazards. This makes it easier to understand and interpret the safety data sheet and product labels. Users of breathing apparatus must be trained. Ensure all operators understand the flammability hazard.

**Other information**

Before using this product in any new process or experiment, a thorough material compatibility and safety study should be carried out. Ensure adequate air ventilation. Ensure all national/local regulations are observed. Ensure equipment is adequately earthed. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use can be accepted.

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### **Other information**

#### **Disclaimer:**

This information is provided without warranty. The data is trusted to be flawless. This information should be used to make an independent determination of the practices that protect workers and the environment.

The information contained in this MSDS is based on sources, scientific and technical knowledge, existing national and EU legislation.

The release is intended to serve the safe use of the product. We do not know or control the working methods or conditions of the users of the product. The user is always ultimately responsible for taking measures to ensure compliance with the regulations in force in the handling, storage, use and disposal of chemicals.

In this context, it is noted that the information provided in the SDS also helps employers to fulfill their obligations under Directive 98/24 / EU10 on the protection of the health and safety of workers from the risks related to chemical agents at work.

On the basis of the safety data sheet, users should be able to take the necessary measures in the field of health and safety to ensure safety and protect the environment.

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The Safety Data Sheet is provided for in Article 31 of REACH Regulation (EU) No 1907/2006 and in Annex II to the Regulation.