

**PM - PRIMER**

Creation date	08th December 2022	Version	3.0
Revision date			

**SECTION 1: Identification of the substance/mixture and of the company/undertaking**

- 1.1. Product identifier** PM - PRIMER  
Substance / mixture mixture  
Number R 34375  
UFI C862-830F-U00N-GCN5
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**  
**Mixture's intended use**  
Activator.  
**Mixture uses advised against**  
For professional use only.
- 1.3. Details of the supplier of the safety data sheet**  
**Supplier**  
Name or trade name RETECH, s.r.o.  
Address Vackova 1541/4, Praha 5 - Stodůlky, 155 00  
Czech Republic  
Identification number (CRN) 25018205  
VAT Reg No CZ25018205  
Phone +420327596428  
E-mail info@retech.cz  
Web address www.retech.com
- Competent person responsible for the safety data sheet**  
Name RETECH, s.r.o.  
E-mail info@retech.cz
- 1.4. Emergency telephone number**  
European emergency number: 112

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture**  
**Classification of the mixture in accordance with Regulation (EC) No 1272/2008**

The mixture is classified as dangerous.

Aerosol 1, H222, H229  
Acute Tox. 4, H312+H332  
Skin Irrit. 2, H315

Full text of all classifications and hazard statements is given in the section 16.

**Most serious adverse physico-chemical effects**

Extremely flammable aerosol. Pressurised container: May burst if heated.

**Most serious adverse effects on human health and the environment**

Causes skin irritation. Harmful in contact with skin or if inhaled.

- 2.2. Label elements**

**Hazard pictogram****Signal word**

Danger

**Hazardous substances**

xylene (mixture of isomers)

**Hazard statements**

H222 Extremely flammable aerosol.

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## PM - PRIMER

Creation date	08th December 2022	Version	3.0
Revision date			

H229 Pressurised container: May burst if heated.  
 H315 Causes skin irritation.  
 H312+H332 Harmful in contact with skin or if inhaled.

### Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
 P211 Do not spray on an open flame or other ignition source.  
 P251 Do not pierce or burn, even after use.  
 P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
 P280 Wear protective gloves/protective clothing.  
 P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C.

### Supplemental information

Density 0,700 g/cm<sup>3</sup>  
 VOC 90,32 %  
 VOC limit value cat. B (e) : 840 g/l  
 Max. VOC content in the product in its ready to use condition 632,24 g/l

### 2.3. Other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605. Mixture does not contain any substance meet the criteria for PBT or vPvB in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Chemical characterization

Mixture of substances and additives specified below.

**Mixture contains these hazardous substances and substances with the highest permissible concentration in the working environment**

Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-022-00-9 CAS: 1330-20-7 EC: 215-535-7	xylene (mixture of isomers)	60-<70	Flam. Liq. 3, H226 Acute Tox. 4, H312, H332 Skin Irrit. 2, H315 Specific concentration limit: ATE Inhalation (vapor) = 11 mg/l ATE Dermal = 1100 mg/kg bw	1, 4
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21	propane	20-<25	Press. Gas, Flam. Gas 1, H220	
CAS: 87741-01-3 EC: 289-339-5 Registration number: 01-2119480480-41	Hydrocarbons, C4	12,5-<15,0	Flam. Gas 1A, H220 Press. Gas, H280	2, 3, 5
Index: 601-023-00-4 CAS: 100-41-4 EC: 202-849-4	ethylbenzene	0,25-<0,50	Flam. Liq. 2, H225 Asp. Tox. 1, H304 Acute Tox. 4, H332 STOT RE 2, H373	4
Index: 602-033-00-1 CAS: 108-90-7 EC: 203-628-5	chlorobenzene	0-<0,5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Acute Tox. 4, H332 Aquatic Chronic 2, H411	4

**PM - PRIMER**

Creation date

08th December 2022

Revision date

Version

3.0

**Notes**

- 1 Note C: Some organic substances may be marketed either in a specific isomeric form or as a mixture of several isomers. In this case the supplier must state on the label whether the substance is a specific isomer or a mixture of isomers.
- 2 Note U (Table 3): When put on the market gases have to be classified as "Gases under pressure", in one of the groups compressed gas, liquefied gas, refrigerated liquefied gas or dissolved gas. The group depends on the physical state in which the gas is packaged and therefore has to be assigned case by case. The following codes are assigned:

Press. Gas (Comp.)  
Press. Gas (Liq.)  
Press. Gas (Ref. Liq.)  
Press. Gas (Diss.)

Aerosols shall not be classified as gases under pressure (See Annex I, Part 2, Section 2.3.2.1, Note 2).

- 3 Note K: The harmonised classification as a carcinogen or mutagen applies unless it can be shown that the substance contains less than 0,1 % w/w 1,3- butadiene (Einecs No 203-450-8), in which case a classification in accordance with Title II of this Regulation shall be performed also for those hazard classes. Where the substance is not classified as a carcinogen or mutagen, at least the precautionary statements (P102-)P210-P403 shall apply.
- 4 A substance for which exposure limits are set.
- 5 Fulfilled Note K

Full text of all classifications and hazard statements is given in the section 16.

**SECTION 4: First aid measures****4.1. Description of first aid measures**

If any health problems are manifested or if in doubt, inform a doctor and show him information from this safety data sheet.

**If inhaled**

Terminate the exposure immediately; move the affected person to fresh air. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

**If on skin**

Remove contaminated clothes. And wash it before reuse. Wash the affected area with plenty of water, lukewarm if possible. Provide medical treatment if skin irritation persists.

**If in eyes**

Rinse eyes immediately with a flow of running water, open the eyelids (also using force if needed); remove contact lenses immediately if worn by the affected person. Rinsing should continue at least for 10 minutes. Provide medical treatment, specialized if possible.

**If swallowed**

Unlikely. Provide medical treatment. Do not induce vomiting unless directed to do so by medical personnel. Do not provide anything by mouth if the person is unconscious or if having cramps.

**4.2. Most important symptoms and effects, both acute and delayed****If inhaled**

not available

**If on skin**

Causes skin irritation.

**If in eyes**

not available

**If swallowed**

not available

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

not available

## PM - PRIMER

Creation date 08th December 2022  
Revision date Version 3.0

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

##### Suitable extinguishing media

Carbon dioxide, foam, powder. Water spray jet.

##### Unsuitable extinguishing media

not available

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

Container: May burst if heated. Exploding canisters can fly up to tens of metres away. Do not breathe smoke.

#### 5.3. Advice for firefighters

Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. EN137 - Respiratory protective devices — Self-contained open-circuit compressed air breathing apparatus with full face mask. EN 469 - Protective clothing for firefighters - Performance requirements for protective clothing for firefighting. EN 659+A1: - Protective gloves for firefighters.

### SECTION 6: Accidental release measures

#### 6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Extremely flammable aerosol. Pressurised container: May burst if heated. Remove all ignition sources. Use personal protective equipment for work. Use personal protective equipment as per Section 8. Keep unprotected persons away.

#### 6.2. Environmental precautions

Avoid release to the environment.

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

Spilled product should be covered with suitable (non-flammable) absorbing material (sand, diatomaceous earth, earth and other suitable absorption materials); to be contained in well closed containers and removed as per the Section 13. Ventilate the room.

#### 6.4. Reference to other sections

See the Section 7, 8 and 13.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Do not spray on an open flame or other ignition source. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. No smoking. Take precautionary measures against static discharge. Pressurised container: May burst if heated. Keep away from sources of heating, ignition and direct sunlight. Do not pierce or burn, even after use. Do not eat, drink or smoke when using this product. Do not inhale aerosols.

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

Store in tightly closed containers in cold, dry and well ventilated areas designated for this purpose. Protect from sunlight. Keep container tightly closed. Do not expose to temperatures exceeding 50 °C.

Storage class

2B - Aerosols

#### 7.3. Specific end use(s)

not available

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

The mixture contains substances for which occupational exposure limits are set.

#### European Union

#### Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
xylene (mixture of isomers) (CAS: 1330-20-7)	OEL 8 hours	221 mg/m <sup>3</sup>	Skin
	OEL 8 hours	50 ppm	
	OEL 15 minutes	442 mg/m <sup>3</sup>	
	OEL 15 minutes	100 ppm	
ethylbenzene (CAS: 100-41-4)	OEL 8 hours	442 mg/m <sup>3</sup>	Skin

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## PM - PRIMER

Creation date

08th December 2022

Revision date

Version

3.0

### European Union

### Commission Directive 2000/39/EC

Substance name (component)	Type	Value	Note
ethylbenzene (CAS: 100-41-4)	OEL 8 hours	100 ppm	Skin
	OEL 15 minutes	884 mg/m <sup>3</sup>	
	OEL 15 minutes	200 ppm	

### European Union

### Commission Directive 2006/15/EC

Substance name (component)	Type	Value	Note
chlorobenzene (CAS: 108-90-7)	OEL 8 hours	23 mg/m <sup>3</sup>	
	OEL 8 hours	5 ppm	
	OEL 15 minutes	70 mg/m <sup>3</sup>	
	OEL 15 minutes	15 ppm	

### DNEL

Hydrocarbons, C4

Workers / consumers	Route of exposure	Value	Effect	Value determination	Source
Workers	Inhalation	2.21 mg/m <sup>3</sup>	Systemic chronic effects		
Workers	Dermal	23.4 mg/kg bw/day	Systemic chronic effects		
Consumers	Inhalation	0.066 mg/m <sup>3</sup>	Systemic chronic effects		

### 8.2. Exposure controls

Follow the usual measures intended for health protection at work and especially for good ventilation. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Ensure workplace is equipped with a safety shower and eye wash station.

#### Eye/face protection

Tightly sealed goggles. EN166 - Personal Eye Protection Standard.

#### Skin protection

Hand protection: Protective gloves resistant to the product. Category III. EN ISO 374-1. Material of gloves: Nitrile rubber, NBR. Penetration time of glove material: 240 min. Recommended thickness of the material: 0.5 mm. When choosing appropriate thickness, material and permeability of the gloves, observe recommendations of their particular manufacturer. Observe other recommendations of the manufacturer. Other protection: Wear category II professional long-sleeved overalls and safety footwear (see Regulation (EU) 2016/425 and standard EN ISO 20344). Contaminated skin should be washed thoroughly.

#### Respiratory protection

Use a mask with filter when the exposition limits of the substances are exceeded or at the place with insufficient ventilation. Filter of type AX in combination with filter of type P. EN143 - Respiratory protective devices - Gas filter(s) and combined filter(s). 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.

#### Thermal hazard

Not available.

#### Environmental exposure controls

Observe usual measures for protection of the environment, see Section 6.2.

## SECTION 9: Physical and chemical properties

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

Physical state

gas

**PM - PRIMER**

Creation date	08th December 2022	Version	3.0
Revision date			

Colour	colourless
Odour	after solvents
Melting point/freezing point	data not available
Boiling point or initial boiling point and boiling range	data not available
Flammability	Extremely flammable aerosol.
Lower and upper explosion limit	data not available
Flash point	<0 °C
Auto-ignition temperature	400 °C
Decomposition temperature	data not available
pH	data not available
Kinematic viscosity	data not available
Solubility in water	insoluble
Solubility in fats	data not available
Partition coefficient n-octanol/water (log value)	data not available
Vapour pressure	4 Bar
Density and/or relative density	
Density	0,700 g/cm <sup>3</sup>
Relative vapour density	>2
Form	aerosol dispenser: spray aerosol
data not available	
<b>9.2. Other information</b>	
Evaporation rate	data not available
Content of organic solvents (VOC)	90,32 %
VOC limit value	cat. B (e) : 840 g/l
Max. VOC content in the product in its ready to use condition	632,24 g/l

**SECTION 10: Stability and reactivity****10.1. Reactivity**

When used in the standard way, there is not any dangerous reaction with other substances.

**10.2. Chemical stability**

The product is stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Unknown.

**10.4. Conditions to avoid**

Protect against overheating.

**10.5. Incompatible materials**

Protect against strong acids, bases and oxidizing agents. Protect against strong oxidizing agents and reducing agents.

**10.6. Hazardous decomposition products**

not available

**SECTION 11: Toxicological information****11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

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.

**Acute toxicity**

Harmful in contact with skin or if inhaled.  
ethylbenzene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	3500 mg/kg		Rat	
Dermal	LD <sub>50</sub>	15354 mg/kg		Rabbit	

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## PM - PRIMER

Creation date

08th December 2022

Revision date

Version

3.0

ethylbenzene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation	LC <sub>50</sub>	17.2 ml/l	4 hour	Rat	

chlorobenzene

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	>2000 mg/kg		Rat	
Inhalation (vapor)	LC <sub>50</sub>	15.5 mg/l	4 hour	Rat	

PM - PRIMER

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Inhalation (dust/mist)	ATE	1.6 mg/l			
Dermal	ATE	1200 mg/kg			

xylene (mixture of isomers)

Route of exposure	Parameter	Value	Exposure time	Species	Sex
Oral	LD <sub>50</sub>	3523 mg/kg		Rat	
Dermal	LD <sub>50</sub>	4350 mg/kg		Rabbit	
Inhalation	LC <sub>50</sub>	26 mg/l	4 hour	Rat	
Inhalation (vapor)	ATE	11 mg/l			
Dermal	ATE	1100 mg/kg bw			

### Skin corrosion/irritation

Causes skin irritation.

### Serious eye damage/irritation

Based on available data the classification criteria are not met.

### Respiratory or skin sensitisation

Based on available data the classification criteria are not met.

### Germ cell mutagenicity

Based on available data the classification criteria are not met.

### Carcinogenicity

Based on available data the classification criteria are not met.

### Reproductive toxicity

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - single exposure

Based on available data the classification criteria are not met.

### Toxicity for specific target organ - repeated exposure

Based on available data the classification criteria are not met.

### Aspiration hazard

Based on available data the classification criteria are not met.

## 11.2. Information on other hazards

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Acute toxicity

chlorobenzene

Parameter	Value	Exposure time	Species	Environment
LC <sub>50</sub>	7.72 mg/l	96 hour	Fishes (Pimephales promelas)	

### 12.2. Persistence and degradability

**PM - PRIMER**

Creation date

08th December 2022

Revision date

Version

3.0

**Biodegradability**

ethylbenzene

Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

chlorobenzene

Parameter	Value	Exposure time	Environment	Result
				Hardly biodegradable

xylene (mixture of isomers)

Parameter	Value	Exposure time	Environment	Result
				Easily biodegradable

Data not available.

**12.3. Bioaccumulative potential**

ethylbenzene

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Kow	3.6				

chlorobenzene

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Kow	3				

xylene (mixture of isomers)

Parameter	Value	Exposure time	Species	Environment	Temperature [°C]
Log Kow	3.12				
BCF	25.9				

Not available.

**12.4. Mobility in soil**

chlorobenzene

Parameter	Value	Environment	Temperature
Log Koc	2.42		

xylene (mixture of isomers)

Parameter	Value	Environment	Temperature
Log Koc	2.73		

Not available.

**12.5. Results of PBT and vPvB assessment**

Product does not contain any substance meeting the criteria for PBT or vPvB in accordance with the Annex XIII of Regulation (EC) No 1907/2006 (REACH) as amended.

**12.6. Endocrine disrupting properties**

The mixture does not contain substances with endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

**12.7. Other adverse effects**

Not available.

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

Proceed in accordance with valid regulations on waste disposal. Any unused product and contaminated packaging should be put in labelled containers for waste collection and submitted for disposal to a person authorised for waste removal (a specialized company) that is entitled for such activity. Do not empty unused product in drainage systems. The product must not be disposed of with municipal waste. Empty containers may be used at waste incinerators to produce energy or deposited in a dump with appropriate classification.



## PM - PRIMER

Creation date	08th December 2022	Version	3.0
Revision date			

### Waste management legislation

Directive 2008/98/EC of the European Parliament and of the Council of 19 November 2008 on waste, as amended.  
Decision 2000/532/EC establishing a list of wastes, as amended.

### Waste type code

16 03 05 organic wastes containing hazardous substances \*

### Packaging waste type code

15 01 11 metallic packaging containing a hazardous solid porous matrix (for example asbestos), including empty pressure containers \*

(\*) - Hazardous waste according to Directive 2008/98/EC on hazardous waste

## SECTION 14: Transport information

### 14.1. UN number or ID number

UN 1950

### 14.2. UN proper shipping name

AEROSOLS

### 14.3. Transport hazard class(es)

2 Gases

### 14.4. Packing group

not relevant

### 14.5. Environmental hazards

No.

### 14.6. Special precautions for user

Reference in the Sections 4 to 8.

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

not relevant

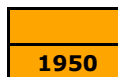
### Additional information

Hazard identification No.

UN number

Classification code

Safety signs



5F

2.1



### Road transport - ADR

Limited quantities

1 L

Excepted quantities

E0

Transport category

2

Tunnel restriction code

(D)

### Railway transport - RID

### Air transport - ICAO/IATA

Packaging instructions passenger

203

Cargo packaging instructions

203

### Marine transport - IMDG

EmS (emergency plan)

F-D, S-U

**PM - PRIMER**

Creation date

08th December 2022

Revision date

Version

3.0

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

Regulation (EC) No. 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing the European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No. 793/93 and Commission Regulation (EC) No. 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, as amended. Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No. 1907/2006, as amended.

**15.2. Chemical safety assessment**

not available

**SECTION 16: Other information****A list of standard risk phrases used in the safety data sheet**

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H373	May cause damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
H312+H332	Harmful in contact with skin or if inhaled.

**Guidelines for safe handling used in the safety data sheet**

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/protective clothing.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.

**Other important information about human health protection**

The product must not be - unless specifically approved by the manufacturer/importer - used for purposes other than as per the Section 1. The user is responsible for adherence to all related health protection regulations.

**Key to abbreviations and acronyms used in the safety data sheet**

ADR	European agreement concerning the international carriage of dangerous goods by road
BCF	Bioconcentration Factor
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
DNEL	Derived no-effect level
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
ES	Identification code for each substance listed in EINECS
EU	European Union
EuPCS	European Product Categorisation System
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006 (REACH) as amended

## PM - PRIMER

Creation date	08th December 2022	Version	3.0
Revision date			

ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods
INCI	International Nomenclature of Cosmetic Ingredients
ISO	International Organization for Standardization
IUPAC	International Union of Pure and Applied Chemistry
LC <sub>50</sub>	Lethal concentration of a substance in which it can be expected death of 50% of the population
LD <sub>50</sub>	Lethal dose of a substance in which it can be expected death of 50% of the population
log Kow	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, Bioaccumulative and Toxic
ppm	Parts per million
Press. Gas (Comp.)	Gas under pressure: compressed gas
Press. Gas (Diss.)	Gas under pressure: dissolved gas
Press. Gas (Liq.)	Gas under pressure: liquefied gas
Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Agreement on the transport of dangerous goods by rail
UN	Four-figure identification number of the substance or article taken from the UN Model Regulations
UVCB	Substances of unknown or variable composition, complex reaction products or biological materials
VOC	Volatile organic compounds
vPvB	Very Persistent and very Bioaccumulative
Acute Tox.	Acute toxicity
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
Asp. Tox.	Aspiration hazard
Flam. Gas	Flammable gas
Flam. Liq.	Flammable liquid
Press. Gas	Gases under pressure
Skin Irrit.	Skin irritation
STOT RE	Specific target organ toxicity - repeated exposure

### Training guidelines

Inform the personnel about the recommended ways of use, mandatory protective equipment, first aid and prohibited ways of handling the product.

### Recommended restrictions of use

not available

### Information about data sources used to compile the Safety Data Sheet

REGULATION (EC) No. 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL (REACH) as amended.  
REGULATION (EC) No. 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL as amended. Data from the manufacturer of the substance / mixture, if available - information from registration dossiers.

### The changes (which information has been added, deleted or modified)

The version 3.0 replaces the SDS version from 20 February 2018. Changes were made in sections 2, 3, 8, 11, 12, 13, 15 and 16.

### Statement

The safety data sheet provides information aimed at ensuring safety and health protection at work and environmental protection. The provided information corresponds to the current status of knowledge and experience and complies with valid legal regulations. The information should not be understood as guaranteeing the suitability and usability of the product for a particular application.