



SAFETY DATA SHEET

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

ATLAS GRAWIS P

Creation date	07th February 2025	Revision no.	
Revision date		Version	1.0

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

- 1.1. Product identifier** ATLAS GRAWIS P
Substance / mixture mixture
- 1.2. Relevant identified uses of the substance or mixture and uses advised against**
Mixture's intended use
GRAWIS P is a single-component adhesive and has excellent adhesion to most building materials: wood, concrete, stone, plastic, metal, etc. It is used in structures with higher strength and can be used both as a non-elastic and permanently elastic adhesive.
Mixture uses advised against
The product should not be used in ways other than those referred in Section 1.
- 1.3. Details of the supplier of the safety data sheet**
- 1.4. Emergency telephone number**
112 - emergency number
+48 800 168 083 - ATLAS INFOLINE telephone, open from Monday to Friday between 8:00 am - 4:00 pm, other information is answered by the machine.

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
Skin Irrit. 2, H315
Skin Sens. 1, H317
Eye Irrit. 2, H319
Resp. Sens. 1, H334
STOT SE 3, H335
Carc. 2, H351
STOT RE 2, H373

Most serious adverse physico-chemical effects

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

Most serious adverse effects on human health and the environment

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs through prolonged or repeated exposure.

- 2.2. Label elements**
Hazard pictogram



Signal word

Danger

Hazardous substances

Isocyanic acid, polymethylene polyphenylene ester (P-MDI)/-
Reaction products of phosphoryl trichloride and 2-methyloxirane

Hazard statements

H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.



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H373	May cause damage to organs through prolonged or repeated exposure.
Precautionary statements	
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of container to properly marked containers for selective waste collection emptied by an authorized company.

Requirements for child-resistant fastenings and tactile warning of danger

Container must carry a tactile warning of danger.

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 contain any substance meet the criteria for PBT in accordance with Annex XIII of Regulation (EC) No. 1907/2006 (REACH) as amended. Does not contain any PMT or vPvM components.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

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
CAS: 9016-87-9 EC: 618-498-9	Isocyanic acid, polymethylene polyphenylene ester (P-MDI)/-	30-50	Skin Irrit. 2, H315 Skin Sens. 1, H317 Eye Irrit. 2, H319 Acute Tox. 4, H332 Resp. Sens. 1, H334 STOT SE 3, H335 Carc. 2, H351 STOT RE 2, H373 Specific concentration limit: ATE Inhalation (vapor) = 11 mg/l	4, 5
CAS: 1244733-77-4 EC: 807-935-0 Registration number: 01-2119486772-26	Reaction products of phosphoryl trichloride and 2-methyloxirane	5-15	Acute Tox. 4, H302 Carc. 2, H351 Aquatic Chronic 3, H412	
Index: 601-004-00-0 CAS: 75-28-5 EC: 200-857-2 Registration number: 01-2119485395-27-xxxx	isobutane	2-<8	Flam. Gas 1, H220 Press. Gas, H280	1, 2
Index: 603-019-00-8 CAS: 115-10-6 EC: 204-065-8 Registration number: 01-2119472128-37-xxxx	dimethyl ether	2-8	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	2, 3



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Identification numbers	Substance name	Content in % weight	Classification according to Regulation (EC) No 1272/2008	Note
Index: 601-003-00-5 CAS: 74-98-6 EC: 200-827-9 Registration number: 01-2119486944-21-xxxx	propane	2-8	Flam. Gas 1, H220 Press. Gas (compressed gas), H280	2
CAS: 6425-39-4 EC: 229-194-7 Registration number: 01-2119969278-20-xxxx	2,2'-dimorpholinyl-diethyl ether	0.1-1.5	Skin Irrit. 2, H315 Eye Irrit. 2, H319	

Notes

- 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.*
- 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).

- A substance for which exposure limits are set.*
- Substance for which biological limit values exist.*
- The use of the substance is restricted by Annex XVII of REACH Regulation*

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. Protect the person against growing cold. Provide medical treatment if irritation, dyspnoea or other symptoms persist.

If on skin

Remove contaminated clothes. Wash the affected area with plenty of water, lukewarm if possible.

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.



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4.2. Most important symptoms and effects, both acute and delayed

If inhaled

May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation.

If on skin

May cause an allergic skin reaction.

If in eyes

Causes serious eye irritation.

If swallowed

Irritation, nausea.

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

Symptomatic treatment.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam, carbon dioxide, powder, water spray jet, water mist.

Unsuitable extinguishing media

Water - full jet.

5.2. Special hazards arising from the substance or mixture

In the event of fire, carbon monoxide, carbon dioxide and other toxic gases may arise. Inhalation of hazardous degradation (pyrolysis) products may cause serious health damage.

5.3. Advice for firefighters

Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely. Use a self-contained breathing apparatus and full-body protective clothing. Closed containers with the product near the fire should be cooled with water. Do not allow run-off of contaminated fire extinguishing material to enter drains or surface and ground water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Provide sufficient ventilation. Pressurised container: May burst if heated. Extremely flammable aerosol. Remove all ignition sources. Use personal protective equipment for work. Follow the directions given in the sections Do not breathe spray. Avoid contact with eyes and skin.

6.2. Environmental precautions

Prevent contamination of the soil and entering surface or ground water. Do not allow to enter drains.

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. In the event of a larger leak, inform the fire department and other competent authorities. After removal of the product, wash the contaminated site with plenty of water. Do not use solvents.

6.4. Reference to other sections

Patrz sekcja 8. i 13.



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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Prevent formation of gases and vapours in flammable or explosive concentrations and concentrations exceeding the occupational exposure limits. The product should be used only in the areas where it is not in contact with open fire and other ignition sources. Use non-sparking tools. Use of antistatic clothes and footwear is recommended. Do not inhale aerosols. Prevent contact with skin and eyes. No smoking. Protect against direct sunlight. Do not pierce or burn, even after use. Obtain special instructions before use. Wash hands and exposed parts of the body thoroughly after handling. Do not eat, drink or smoke when using this product. Do not spray on an open flame or other ignition source. Avoid contact during pregnancy and while nursing. Use only outdoors or in a well-ventilated area. Use personal protective equipment as per Section 8. Observe valid legal regulations on safety and health protection. Avoid release to the environment.

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. Storage temperature from + 5°C to + 30°C. Avoid storage at temperatures exceeding 50°C. Stir the product before use. Store away from food, drink and animal feed. Store in an upright position.

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. Ensure regular monitoring of technical parameters in accordance with the technical specifications/instructions provided for the equipment. Qualitative risk assessment and risk management in the workplace may be required for assessment. Recommended standard at EU level: EN 689 Workplace exposure - Measurement of inhalation exposure to chemical agents EN 14042 Workplace atmospheres - Guide to the application of procedures for the assessment of exposure to chemical and biological agents EN 482 Workplace exposure - General requirements for the performance of procedures for the measurement of chemical agents Note: approved national monitoring methods should/may also be used and will take precedence over other differential methods.

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Substance name (component)	Type	Value
dimethyl ether (CAS: 115-10-6)	WEL 8h	766 mg/m ³
	WEL 8h	400 ppm
	WEL 15min	958 mg/m ³
	WEL 15min	500 ppm

Biological limit values

United Kingdom

EH40/2005 Workplace exposure limits (Fourth Edition 2020)

Name	Parameter	Value	Tested material	Time of sampling
Methylenediphenyl diisocyanate (CAS: 9016-87-9)	isocyanate-derived diamine	1 µmol/mol creatinine	Urine	End of exposure or end of shift



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8.2. Exposure controls

Take off contaminated clothing and wash before reuse. Follow the usual measures intended for health protection at work and especially for good ventilation. This can be achieved only by local suction or efficient general ventilation. If exposure limits cannot be observed in this mode, suitable protection of airways must be used. Do not eat, drink and smoke during work. Wash your hands thoroughly with water and soap after work and before breaks for a meal and rest.

Eye/face protection

EN 166 Standard: Provides adequate eye protection. • Mechanical resistance: S (increased resistance). • Protection against specific hazards: Level 3 (protection against liquid drops and splashes).

Skin protection

EN ISO 374: Protective gloves against hazardous chemicals and microorganisms. • Type A: Gloves resistant to at least 6 chemicals from an approved list, with a breakthrough time of not less than 30 minutes. Suitable glove materials: Nitrile, neoprene, butyl rubber, natural rubber latex. Glove thickness: • For short-term contact: 0.15 mm, breakthrough time >240 minutes. • For long-term contact: 0.2– 0.3 mm, breakthrough time >480 minutes. If there is a risk of mechanical damage to the gloves, refer to EN 388. If the risk is related to thermal effects, refer to EN 407. Other Body Protection Equipment EN 14605: Protective clothing against liquid chemicals, including resistance to penetration by liquids and aerosols. • Type 4: Splash-proof clothing – protection against liquid splashes. EN ISO 20345 standard: Protective footwear against mechanical hazards and other risks. • Type SB: Basic safety footwear with toe protection.

Respiratory protection

When selecting respiratory protection and/or filter protection levels, the following should be taken into account: • Known or anticipated exposure. • State of aggregation and level or manner of exposure. • Additional factors such as specific hazards and safe work limits for the selected equipment. In cases of insufficient ventilation, increased exposure or inadequate ventilation, personal respiratory protection is recommended. Standard EN 149: Filtering half masks (FFP) for protection against particles, intended for single use during a single shift. Only to be used when there is no exposure to gases/vapours. • Filtration efficiency classes: o FFP1: Filters at least 80% of airborne particles. o FFP2: Filters at least 94% of airborne particles. o FFP3: Filters at least 99% of airborne particles. Standard EN 1827: Half masks without inhalation valves and with separate filters for protection against gases, gases and particles or particles only. Only used with filters specified by the manufacturer, marked according to filter type and class, with FM label. Standard EN 405: Filtering half masks with valves for protection against gases or a combination of gases and particles. Used with filters designed for specific gases or a combination of gas and particle filters. Typy filtrów: 1. Filtry gazowe/parowe (ABEK 1/2/3): o A: Organic gases and vapours with a boiling point above 65°C. o B: Inorganic gases and vapours (e.g. chlorine, hydrogen sulphide). o E: Acidic gases and vapours (e.g. sulphur dioxide, hydrogen chloride). o K: Ammonia and organic ammonia derivatives. 2. Combination filters (ABEK 1/2/3 + P 1/2/3): Provide protection against both particles and gases/vapours. Marked to indicate capability and effectiveness. Standard EN 143: Particle filters for use with half masks and/or full face masks (standards EN 1827 and EN 405). Does not apply to FFP masks (Standard EN 149). • Filtration efficiency: o P1: Filters at least 80% of the particles in the air. o P2: Filters at least 94% of the particles in the air. o P3: Filters at least 99% of the particles in the air.

Thermal hazard

Data not available.

Environmental exposure controls

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	
physical state	liquid at 20 °C
color	yellow
Odour	characteristic
pH	non-soluble (in water)
Melting point/freezing point	not determined
Initial boiling point and boiling range	not determined
Flash point	not applicable
Flammability (solid, gas)	extremely flammable aerosol
Upper/lower flammability or explosive limits	
explosive limits	not determined
Vapour pressure	not determined
Solubility(ies)	
solubility in water	not determined



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Partition coefficient: n-octanol/water	not determined
Auto-ignition temperature	>240 °C
Decomposition temperature	not determined
Viscosity	
Kinematic viscosity	not determined
Density	not determined
9.2. Other information	
particle characteristics	not determined
relative vapour density	not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

not available

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 flames, sparks, overheating and against frost. Pressurised container: May burst if heated.

10.5. Incompatible materials

explosives, oxidizers, flammable materials, strong acids/bases, acid chlorides, acid anhydrides, alcohol, amines.

10.6. Hazardous decomposition products

Not developed under normal uses.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Inhalation of solvent vapors above values exceeding exposure limits for working environment may result in acute inhalation poisoning, depending on the level of concentration and exposure time. No toxicological data is available for the mixture.

Acute toxicity

Based on the available data, the criteria for classification of the mixture are not met.

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Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	ATE	4213 mg/kg				Calculation of value
Inhalation (vapor)	ATE	22 mg/l				Calculation of value

Isocyanic acid, polymethylene polyphenylene ester (P-MDI)/-

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Inhalation	ATE	>10-<20 mg/l				
Inhalation (vapor)	ATE	11 mg/l				

Reaction products of phosphoryl trichloride and 2-methyloxirane

Route of exposure	Parameter	Value	Exposure time	Species	Sex	Value determination
Oral	LD ₅₀	632 mg/kg				

Skin corrosion/irritation

Causes skin irritation.



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Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

May cause an allergic skin reaction. May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Germ cell mutagenicity

Based on the available data, the criteria for classification of the mixture are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Based on the available data, the criteria for classification of the mixture are not met.

Toxicity for specific target organ - single exposure

May cause respiratory irritation.

Toxicity for specific target organ - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard

Based on the available data, the criteria for classification of the mixture are not met.

SECTION 12: Ecological information

12.1. Toxicity

Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Data for the components of the mixture are not available.

12.2. Persistence and degradability

not available

12.3. Bioaccumulative potential

No data are available for either the mixture or the components.

12.4. Mobility in soil

Based on the available data, the criteria for classification of the mixture are not met. Does not contain any PMT or vPvM components.

12.5. Results of PBT and vPvB assessment

Based on the available data, the criteria for classification of the mixture are not met. Contains PBT and vPvB ingredients - chloroalkanes, C14-17.

12.6. Other adverse effects

Data not available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Hazard of environmental contamination; dispose of the waste in accordance with the local and/or national regulations. 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. Perfectly cleaned containers can be submitted for recycling.

Waste management legislation

Producer Responsibility Obligations (Packaging Waste) Regulations 2007 (S.I. No. 871 of 2007). 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.



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SECTION 14: Transport information

14.1. UN 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

not relevant

14.6. Special precautions for user

Patrz w sekcjach w sekcjach 4 do 8.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

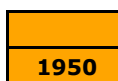
not relevant

Additional information

Hazard identification No.

UN number

Safety signs



2.1



SECTION 15: Regulatory information

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

Clean Air Act 1993 as amended. The Aerosol Dispensers (Amendment) Regulations 2018. The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 as amended. Public health act 1961. Environmental Protection Act 1990 as amended. 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 as amended. Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

In accordance with Regulation (EC) 1907/2006 (REACH) Article 14, a chemical safety assessment was not carried out (not applicable to the mixture).

SECTION 16: Other information

A list of standard risk phrases used in the safety data sheet

H220	Extremely flammable gas.
H222	Extremely flammable aerosol.
H229	Pressurised container: May burst if heated.
H280	Contains gas under pressure; may explode if heated.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.



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H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Guidelines for safe handling used in the safety data sheet	
P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251	Do not pierce or burn, even after use.
P280	Wear protective gloves/protective clothing/eye protection.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310	Immediately call a POISON CENTER/doctor.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of container to properly marked containers for selective waste collection emptied by an authorized company.

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

Acute Tox.	Acute toxicity
ADR	Agreement concerning the international carriage of dangerous goods by road
Aerosol	Aerosol
Aquatic Chronic	Hazardous to the aquatic environment (chronic)
BCF	Bioconcentration Factor
Carc.	Carcinogenicity
CAS	Chemical Abstracts Service
CLP	Regulation (EC) No 1272/2008 on classification, labelling and packaging of substance and mixtures
EC	Identification code for each substance listed in EINECS
EINECS	European Inventory of Existing Commercial Chemical Substances
EmS	Emergency plan
EU	European Union
EuPCS	European Product Categorisation System
Eye Irrit.	Eye irritation
Flam. Gas	Flammable gas
IATA	International Air Transport Association
IBC	International Code For The Construction And Equipment of Ships Carrying Dangerous Chemicals
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
LD ₅₀	Lethal dose of a substance in which it can be expected death of 50% of the population
log K _{ow}	Octanol-water partition coefficient
MARPOL	International Convention for the Prevention of Pollution from Ships
OEL	Occupational Exposure Limits
PBT	Persistent, bioaccumulative and toxic
PMT	Persistent, mobile and toxic
ppm	Parts per million
Press. Gas	Gases under pressure
Press. Gas (Comp.)	Gas under pressure: compressed gas
Press. Gas (Diss.)	Gas under pressure: dissolved gas
Press. Gas (Liq.)	Gas under pressure: liquefied gas



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Press. Gas (Ref. Liq.)	Gas under pressure: refrigerated liquefied gas
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
Resp. Sens.	Respiratory sensitization
RID	Agreement on the transport of dangerous goods by rail
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
UN number	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
vPvM	Very persistent and very mobile

Training guidelines

From 24 August 2023, appropriate training is required before industrial or professional use. 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.

More information

Classification procedure - calculation method.

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.