

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 11.04.2022

Version 2

Revision: 11.04.2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** INSEBO Montage-Brandschutzschaum**1.2 Relevant identified uses of the substance or mixture and uses advised against****Application of the substance / the mixture** Polyurethane-sealant**1.3 Details of the supplier of the safety data sheet**

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1.4 Emergency telephone number: Call local emergency information.**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Acute Tox. 4	H332	Harmful if inhaled.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Irrit. 2	H319	Causes serious eye irritation.
Resp. Sens. 1	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
Skin Sens. 1	H317	May cause an allergic skin reaction.
Carc. 2	H351	Suspected of causing cancer.
STOT SE 3	H335	May cause respiratory irritation.
STOT RE 2	H373	May cause damage to organs through prolonged or repeated exposure.

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS02 GHS07 GHS08

Signal word Danger**Hazard-determining components of labelling:**

diphenylmethanediisocyanate, isomeres and homologues

Hazard statements

H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H332	Harmful if inhaled.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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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.
- P211 Do not spray on an open flame or other ignition source.
- P251 Do not pierce or burn, even after use.
- P261 Avoid breathing vapours/spray.
- P271 Use only outdoors or in a well-ventilated area.
- P280 Wear protective gloves, eye protection.
- P302+P352 IF ON SKIN: Wash with plenty of water and soap.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P314 Get medical advice/attention if you feel unwell.
- P405 Store locked up.
- P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
- P501 Dispose of contents/container to hazardous or special waste collection point.

Additional safetyphrases according to Annex XVII of the Commission Regulation No.1907/2006:

Persons already sensitised to diisocyanates may develop allergic reactions when using this product.
Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product.

This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

As from 24 August 2023 adequate training is required before industrial or professional use.

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not meet the PBT- or vPvB-criteria according to Regulation (EC) No 1907/2006.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Description: Mixture of substances listed below with non-hazardous additions.

Dangerous components:

CAS: 9016-87-9	diphenylmethanediisocyanate, isomeres and homologues Resp. Sens. 1, H334; Carc. 2, H351; STOT RE 2, H373; Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335, EUH204 Specific concentration limits: Eye Irrit. 2; H319: C ≥ 5 % Skin Irrit. 2; H315: C ≥ 5 % Resp. Sens. 1; H334: C ≥ 0.1 % STOT SE 3; H335: C ≥ 5 %	30 - 60%
CAS: 1244733-77-4 EC number: 807-935-0 Reg.No.: 01-2119486772-26	tris(2-chloro-1-methylethyl)phosphate Acute Tox. 4, H302	20 - 30%

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CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0 Reg.No.: 01-2119485395-27	isobutane (< 0.1% butadiene) Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5 - 10%
CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.No.: 01-2119472128-37	dimethyl ether Flam. Gas 1A, H220; Press. Gas (Comp.), H280	5 - 10%
CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5 Reg.No.: 1-2119486944-21	propane Flam. Gas 1A, H220; Press. Gas (Comp.), H280	1 - 5%

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General information:

In case of accident or if you feel unwell seek medical advice (show label where possible).

In case of unconsciousness place patient stably in side position for transportation.

After inhalation: Supply fresh air, keep warm and at rest. If symptoms persist seek medical advice.

After skin contact:

Remove contaminated clothes. Rinse skin thoroughly with water and soap. In case of irritation seek medical treatment.

After eye contact:

Remove contact lenses, if present and easy to do. Rinse opened eyes for at least 15 minutes with plenty of water. If irritation persists seek medical advice.

After swallowing: Seek medical advice immediately and show the container or label.

4.2 Most important symptoms and effects, both acute and delayed

MDI:

Inhalation: irritation of the respiratory tract, cough, dyspnea, breathing difficulties, asthma

Skin contact: irritation, erythema

Eye contact: pain or irritation, lacrimation, redness

Ingestion: irritation of the gastrointestinal tract

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

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents: CO₂, extinguishing powder, sand, soil

For safety reasons unsuitable extinguishing agents: Water

5.2 Special hazards arising from the substance or mixture

Product contains highly flammable vapours and liquids. Formation of smoke in case of fire; carbon oxides, soot, hydrocarbons and aldehydes can be released due to incomplete combustion and thermolysis.

Risk of bursting due to heat. Formation of explosive air/vapour mixtures are possible. Vapors are heavier than air.

By distribution at ground level flash back to distant ignition sources is possible.

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5.3 Advice for firefighters

Protective equipment:

In the case of fire wear self-contained respiratory equipment and full protective suit.

Do not inhale explosion gases or combustion gases.

Additional information

Cool endangered receptacles with water spray. Contain runoff to prevent entry into water or drainage systems.

Dispose of fire debris and contaminated fire fighting water according to the regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Please notice instructions for person-related safety precautions, wear protective equipment (see 8.)

Avoid inhalation and contact with skin and eyes.

Keep unprotected persons away. Ensure adequate ventilation.

Keep away from ignition sources.

6.2 Environmental precautions:

Do not allow to enter sewers, surface or ground water.

Advise water authority in case of seepage into water course or sewage system.

6.3 Methods and material for containment and cleaning up:

Cover with sand or damp soil.

Allow to solidify and remove mechanically.

Dispose contaminated material as waste according to item 13.

Remove residues using PU foam cleaner.

Additional information: Material automatically cures when exposed to air.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

While handling pay attention to the usual precaution for chemicals.

Comply with instructions for use.

Avoid any contact with skin, eyes and clothes.

Do not breathe gas/vapours/spray.

Provide good ventilation/exhaustion at the workplace.

Wash hands before break and at the end of work.

Information about fire - and explosion protection:



Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50 °C, i.e. electric lights.

Do not pierce or burn, even after use.

Vapours are heavier than air. They can spread along the ground and form mixtures that are explosive with air.

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Do not spray on an open flame or glowing objects.

7.2 Conditions for safe storage, including any incompatibilities

Requirements to be met by storerooms and receptacles:

Store in cool, dry place in tightly closed original containers.
Storage regulations for pressurized gas receptacles must be observed.
Suitable material for receptacles: FE (40) or ALU (41)

Information about storage in one common storage facility:

Do not store food, beverages and animal feeding stuffs in the storage area.

Further information about storage conditions:

Keep out of the reach of children and domestic animals.
Protect from heat and direct sunlight.

Class according to regulation on flammable liquids: Void

7.3 Specific end use(s) Sealant

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace:

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

MAK (Austria)	Short-term value: 0.1 mg/m ³ , 0.01 ppm; Long-term value: 0.05 mg/m ³ , 0.005 ppm Gruppeneintrag Diphenylmethan-diisocyanat
AGW (Germany)	Long-term value: 0.05 E mg/m ³ ; 1;=2=(I);DFG, H, Sah, Y, 12

CAS: 75-28-5 isobutane (< 0.1% butadiene)

MAK (Austria)	Short-term value: 3800 mg/m ³ , 1600 ppm; Long-term value: 1900 mg/m ³ , 800 ppm
AGW (Germany)	Long-term value: 2400 mg/m ³ , 1000 ppm; 4(II);DFG

CAS: 115-10-6 dimethyl ether

IOELV (EU)	Long-term value: 1920 mg/m ³ , 1000 ppm
MAK (Austria)	Short-term value: 3820 mg/m ³ , 2000 ppm; Long-term value: 1910 mg/m ³ , 1000 ppm
AGW (Germany)	Long-term value: 1900 mg/m ³ , 1000 ppm; 8(II);DFG, EU

CAS: 74-98-6 propane

MAK (Austria)	Short-term value: 3600 mg/m ³ , 2000 ppm; Long-term value: 1800 mg/m ³ , 1000 ppm
AGW (Germany)	Long-term value: 1800 mg/m ³ , 1000 ppm; 4(II);DFG

Regulatory information

MAK (Austria): GKV 2020, 156. Verordnung, 09.04.2021, Teil II
AGW (Germany): TRGS 900
IOELV (EU): (EU) 2019/1831

DNELs:

methylenediphenyl diisocyanate (CAS 101-68-8)
worker, short-term exposure - local and systemic effects, inhalation 0.1 mg/m³
worker, long-term exposure - local and systemic effects, inhalation 0.05 mg/m³
worker, short-term exposure - local effects, dermal 28.7 mg/cm²
worker, short-term exposure - systemic effects, dermal 50 mg/kg bw/day
consumer, short-term exposure - systemic effects, oral 20 mg/kg bw/day
consumer, short-term exposure - local and systemic effects, inhalation 0.05 mg/m³
consumer, long-term exposure - local and systemic effects, inhalation 0.025 mg/m³
consumer, short-term exposure - local effects, dermal 17.2 mg/cm²

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consumer, short-term exposure - systemic effects, dermal 25 mg/kg bw/day

tris(2-chloro-1-methylethyl)phosphate (CAS 1244733-77-4):

worker, short-term exposure - systemic effects, inhalation 22.6 mg/m³

worker, long-term exposure - systemic effects, dermal 8.2 mg/cm²

worker, short-term exposure - systemic effects, dermal 2.91 mg/kg bw/day

consumer, short-term exposure - systemic effects, oral 2 mg/kg bw/day

consumer, long-term exposure - systemic effects, oral 0.52 mg/kg bw/day

consumer, long-term exposure - systemic effects, inhalation 1.45 mg/m³

consumer, long-term exposure - systemic effects, dermal 1.04 mg/kg bw/day

PNECs:

methylenediphenyl diisocyanate (CAS: 101-68-8)

freshwater 1 mg/l, marine water 0.1 mg/l;

intermittent releases 10 mg/l; STP 1 mg/l; soil 1 mg/kg

tris(2-chloro-1-methylethyl)phosphate (CAS 1244733-77-4):

freshwater 0.32 mg/l, marine water 0.032 mg/l

sediment freshwater 11.5 mg/kg, marine water 11.15 mg/kg

soil 0.34 mg/kg, STP 19.1 mg/l, secondary poisoning 11.6 mg/kg

Ingredients with biological limit values:

Additional information: Based on actual legally binding lists.

8.2 Exposure controls

Appropriate engineering controls Provide good ventilation or exhaust at work.

Individual protection measures, such as personal protective equipment**General protective and hygienic measures:**

Avoid unnecessary contact with the product. Do not eat, drink or smoke at workplace and keep it tidy.

Avoid inhalation and contact with skin and eyes.

Remove contaminated clothing immediately and wash carefully before reuse.

Ensure thorough skin cleansing after use.

Respiratory protection:

Use protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) in case of insufficient ventilation.

Hand protection

Chemical resistant gloves (EN 374)

Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed.

Material of gloves

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

Butyl rubber (thickness ≥ 0.5 mm), fluorinated elastomer (thickness ≥ 0.4 mm), chlorinated polyethylene, ethylene vinyl alcohol (EVOH), neoprene (thickness ≥ 0.5 mm), nitrile/butadiene rubber (NBR, thickness ≥ 0.35 mm), polyvinyl chloride (PVC)

Rate of permeability: ≥ 480 minutes

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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Eye/face protection



Safety glasses (EN 166)

Body protection: Protective work clothing

Environmental exposure controls

Do not allow to enter sewers or surface water. Advise water authority if spillage has entered water course or drainage system.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form:	Foam aerosols
Colour:	According to product specification
Odour:	Characteristic
Odour threshold:	Not determined
Melting point/freezing point:	< 0 °C (MDI, ISO 3016)
Boiling point or initial boiling point and boiling range:	Not applicable, as aerosol.
Flammability:	Extremely flammable.
Lower and upper explosion limit:	
Lower:	1.5 Vol % (propellant)
Upper:	16 Vol% (propellant)
Flash point:	> 200 °C (MDI, DIN 53171)
Ignition temperature:	> 350 °C (propellant)
Decomposition temperature:	To avoid thermal decomposition do not overheat.
pH:	No data available
Viscosity	
dynamic:	≥ 200 mPas (MDI, DIN 53019, 20 °C)
Solubility	
water:	Insoluble; reacts with water
organic solvents:	Soluble before curing
Partition coefficient, n-octanol/water:	No data available.
Vapour pressure:	< 0.7 mPa (propellant, 20 °C)
Vapour pressure:	< 0.00001 hPa (MDI)
Density at 20 °C:	1.0 g/cm ³

9.2 Other information

Ignition temperature:	> 500 °C (MDI, DIN 51794)
Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
VOC (EC):	≈ 0.2 kg/kg
Oxidising properties:	No data available.

Information with regard to physical hazard classes

Explosives	Void
Flammable gases	Void

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Aerosols

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

Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void
Pyrophoric solids	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water	Void
Oxidising liquids	Void
Oxidising solids	Void
Organic peroxides	Void
Corrosive to metals	Void
Desensitised explosives	Void

SECTION 10: Stability and reactivity

10.1 Reactivity Stable in standard stocking and use conditions.

10.2 Chemical stability Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions Danger of polymerisation.

10.4 Conditions to avoid

Heat, open flames, ignition sources, electrostatic charge
Heating causes rise in pressure with risk of bursting.

10.5 Incompatible materials: Strong oxidizing agents, strong acids, water

10.6 Hazardous decomposition products:

None under normal conditions of storage and use.

In the case of fire can be formed: carbon oxides, nitrogen oxides hydrogen cyanide, toxic pyrolysis products

SECTION 11: Toxicological information

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

Acute toxicity

Harmful if inhaled.

LD/LC50 values relevant for classification: There are no product specific data on toxicology available.

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitisation

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

May cause an allergic skin reaction.

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Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity Based on available data, the classification criteria are not met.

STOT-single exposure

May cause respiratory irritation.

STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard Based on available data, the classification criteria are not met.

Additional toxicological information:

pMDI:

In case of exposure to high levels, danger of irritating effects on eyes, nose, throat and respiratory tract irrespective of the concentration arises. Symptoms (breathing difficulties, cough, asthma) may even occur after several hours; Persons already sensitised to diisocyanates may develop allergic reactions even at very low concentrations of the substance. Long-term exposure may cause skin dryness or skin degreasing.

11.2 Information on other hazards

Endocrine disrupting properties

Taking into account the current state of scientific knowledge, no data on endocrine disrupting properties of the product are available.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

For the product there are no ecotoxicological data available.

CAS: 9016-87-9 diphenylmethanediisocyanate, isomeres and homologues

LC50/96h (static)	> 1,000 mg/l (zebrafish, Danio rerio) (OECD 203)
EC50/24h (static)	> 1,000 mg/l (water flea, Daphnia magna) (OECD 202)
EC50/72h (static)	> 1,640 mg/l (algae) (OECD 201)
NOEC/21d	≥ 10 mg/l (water flea, Daphnia magna) (OECD 211)

Additional information: Insoluble in water, the PU foam spreads on the water surface.

12.2 Persistence and degradability

MDI: not readily biodegradable.

test: aerobic, inoculum: activated sludge

degradability: 0 %, 28 days (OECD Guideline 302 C)

tris(2-chloro-1-methylethyl)phosphate: not readily biodegradable.

Degradability: aerobic 14 % (OECD Guideline 301 F)

Not readily biodegradable.

12.3 Bioaccumulative potential

MDI:

bioconcentration factor (BCF): <14 (OECD Guideline 305)

(Cyprinus carpio, exposure time 42 d, concentration 0.2 mg/l)

No significant accumulation in organisms, the substance hydrolyses violently in water.

Tris(2-chloro-1-methylethyl)phosphate: low potential for bioaccumulation

octanol-water partition coefficient (log Pow): 2.68; bioconcentration factor (BCF): 0.8 - 14 days

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12.4 Mobility in soil Very limited due to chemical reaction with water to form an insoluble product (PU foam).

12.5 Results of PBT and vPvB assessment Not applicable.

12.6 Endocrine disrupting properties For information on endocrine disrupting properties see section 11.

12.7 Other adverse effects

Isocyanate reacts with water at the interface forming CO₂ and a solid insoluble product with high melting point (polyurea). This reaction is accelerated by surfactants (e.g. detergents) or by water-soluble solvents. Previous experience shows that polyurea is inert and non-degradable.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not dispose waste or remains together with domestic waste, do not empty into sink or toilet, hand over to hazardous waste disposers.

European waste catalogue

15 01 10: Packaging containing residues of or contaminated by dangerous substances

15 01 04: metallic packaging

17 02 03: plastic

Uncleaned packaging

Recommendation:

Cans should be emptied completely and should preferably be recycled or reused in compliance with the local / national regulations. Cans not emptied completely or remains have to be disposed as hazardous waste.

SECTION 14: Transport information

14.1 UN number or ID number
ADR, IMDG, IATA

UN1950

14.2 UN proper shipping name

ADR
IMDG
IATA

1950 AEROSOLS
AEROSOLS
AEROSOLS, flammable

14.3 Transport hazard class(es)

ADR



Class
Label
IMDG, IATA

2 5F Gases.
2.1



Class

2.1 Gases.

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Label	2.1
14.4 Packing group ADR, IMDG, IATA	Void
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user Hazard identification number (Kemler code):	Warning: Gases. -
14.7 Maritime transport in bulk according to IMO instruments	Not applicable.
UN "Model Regulation":	UN 1950 AEROSOLS, 2.1

SECTION 15: Regulatory information

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

Regulation (EC) No 1907/2006 Annex XVII Conditions of restriction: 3

National regulations: -

Water hazard class: Water hazard class (German Regulation) 1 (self-assessment): slightly hazardous for water.

VOC (EC): ≈ 0.2 kg/kg

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

- H220 Extremely flammable gas.
- 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.
- H335 May cause respiratory irritation.
- H351 Suspected of causing cancer.
- H373 May cause damage to organs through prolonged or repeated exposure.
- EUH204 Contains isocyanates. May produce an allergic reaction.

Further information:

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008: Calculation method

Date of previous version: 27.05.2021

Abbreviations and acronyms:

CLP: REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures
CAS: Chemical Abstracts Service (division of the American Chemical Society)

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EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
WEL: workplace exposure limit
MAK: maximum concentration of a chemical substance in the workplace
IOELV: indicative occupational exposure limit values (EU)
AGW: occupational exposure limit
DNEL: Derived No-Effect Level
PNEC: Predicted No-Effect Concentration
LC50: lethal concentration, 50%
EC50: maximal effective concentration, 50%
NOEL/NOEC: No Observed Effect Concentration
OECD: Organisation for Economic Co-operation and Development
log Pow, Kow: partition coefficient (n-octanol/water)
PBT: persistent, bioaccumulative and toxic properties
vPvB: very persistent and very bioaccumulative properties
ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
Flam. Gas 1A: Flammable gases – Category 1A
Aerosol 1: Aerosols – Category 1
Press. Gas (Comp.): Gases under pressure – Compressed gas
Acute Tox. 4: Acute toxicity – Category 4
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
Resp. Sens. 1: Respiratory sensitisation – Category 1
Skin Sens. 1: Skin sensitisation – Category 1
Carc. 2: Carcinogenicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Data compared to the previous version altered: Section 2, 8