Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 02.09.2025 Version 2 Revision: 15.03.2024

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

1.1 Product identifier

Trade name: INSEBO GunTec Weichzell 879 / INSEBO GunXpert Weichzell 880

UFI: YQXE-DXDK-8U1N-MW5S

1.2 Relevant identified uses of the substance or mixture and uses advised against
Application of the substance / mixture Polyurethane-sealant

1.3 Details of the supplier of the safety data sheet
Manufacturer/Supplier:
WS INSEBO GmbH
Industriestraße 24, A-2325 Himberg bei Wien
Tel.: +43 (0) 2235/86227-0
e-mail: office@insebo.com

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.

Additional information:
Pressurized container: Protect from sunlight. Do not expose to temperatures exceeding 50 °C. Formation of explosive mixtures possible without sufficient ventilation.
Persons with high respiratory sensitivity (e.g. asthma, chronic bronchitis) must not come into contact with the product.
Respiratory symptoms in case of overexposure may still occur after several hours. Dust, vapours and aerosols are particularly harmful to the respiratory tract.

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:
4,4'-methylenediphenyl diisocyanate, oligomers

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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.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H335 May cause respiratory irritation.
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 information:
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.

Determination of endocrine-disrupting properties
The product contains no components considered to have endocrine disrupting properties according to REACH Article 57(f), Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixture
Description: Prepolymer (mixed polyol and polymeric isocyanate) with freon-free low-boiling propellant

Dangerous components:		
CAS: 25686-28-6 NLP: 500-040-3 Reg.No.: 01-2119457013-49	4,4'-methylenediphenyl diisocyanate, oligomers 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	30 - 60%
CAS: 75-28-5 EINECS: 200-857-2 Index number: 601-004-00-0	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%

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CAS: 74-98-6 EINECS: 200-827-9 Index number: 601-003-00-5	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 the 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:
Not anticipated as this is an aerosol spray.
Keep affected person warm and at rest.
Seek medical advice immediately and show the container or label.

4.2 Most important symptoms and effects, both acute and delayed
In case of inhalation irritation of mucous membranes of the airways can occur in sensitive people.
Local skin irritation (redness, itchiness). Degreases and dries skin.
Local eye conjunctiva irritation (redness, burning eyes, eye watering)
May cause irritation to the gastrointestinal tract accompanied by abdominal pain and nausea, even vomiting and diarrhoea can occur.

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.

5.3 Advice for firefighters
Protective equipment:
In 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.

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Dispose of fire debris and contaminated firefighting 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.
Do not breathe vapour/spray.
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 section 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.
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)

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Information about storage in one common storage facility:
Do not store food, beverages and animal feeding stuff 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.

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: 25686-28-6 4,4'-methylenediphenyl diisocyanate, oligomers	
MAK (Austria)	Short-term value: 0.1 mg/m³, 0.01 ppm; Long-term value: 0.05 mg/m³, 0.005 ppm Group entry diphenylmethane diisocyanate
AGW (Germany)	Long-term value: 0.05 E mg/m³; 1;=2=(I);DFG, 11, 12, H, Sah, Y
CAS: 75-28-5 isobutane (< 0.1% butadiene)	
MAK (Austria)	Short-term value: 3800 mg/m³, 1600 ppm; Long-term value: 1900 mg/m³, 800 ppm
AGW (Germany)	Long-term value: 2400 mg/m³, 1000 ppm; 4(II);DFG
CAS: 115-10-6 dimethyl ether	
IOELV (EU)	Long-term value: 1920 mg/m³, 1000 ppm
MAK (Austria)	Short-term value: 3820 mg/m³, 2000 ppm; Long-term value: 1910 mg/m³, 1000 ppm
AGW (Germany)	Long-term value: 1900 mg/m³, 1000 ppm; 8(II);DFG, EU
CAS: 74-98-6 propane	
MAK (Austria)	Short-term value: 3600 mg/m³, 2000 ppm; Long-term value: 1800 mg/m³, 1000 ppm
AGW (Germany)	Long-term value: 1800 mg/m³, 1000 ppm; 4(II);DFG

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

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
consumer, short-term exposure - systemic effects, dermal 25 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
sediment (freshwater, marine water): exposure of sediment is not expected.

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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.
After use, ensure thorough cleansing of the skin.
Pregnant women should strictly avoid inhalation or skin contact.

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 breakthrough time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye/face protection

Safety glasses (EN 166)

Body protection
Protective work clothing
Protective clothing should be professionally laundered regularly.

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:	Liquid in aerosol containers
Colour:	According to product specification
Odour:	Not determined
Melting point/freezing point:	< 0 °C (MDI, ISO 3016)
Boiling point or initial boiling point and boiling range:	Not applicable.

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Flammability:	Extremely flammable.
Lower and upper explosion limit:	
Lower:	1.5 Vol % (propellant)
Upper:	16 Vol% (propellant)
Flash point:	> 200 °C (MDI, DIN 53171)
Auto-ignition temperature:	> 350 °C (propellant) > 500 °C (MDI, DIN 51794)
Decomposition temperature:	Not determined.
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:	Not determined.
Vapour pressure:	< 0.00001 hPa (MDI) < 0.7 mPa (propellant, 20 °C)
Density at 20 °C:	1.2 g/cm³
Relative gas density	No data available.

9.2 Other information

Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
VOC (EC):	0.25 kg/kg
Oxidising properties:	No data available.

Information with regard to physical hazard classes

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

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
Carbon dioxide is produced by the reaction with substances containing active oxygen, incl. water. This leads to an increase in pressure and temperature in closed containers.

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 Avoid contact with strong oxidising agents and strong acids. Reacts with 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

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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.

CAS: 25686-28-6 4,4'-methylenediphenyl diisocyanate, oligomers		
oral	LD50	> 5,000 mg/kg (rat) (OECD 425)
dermal	LD50	> 9,400 mg/kg (rat)
inhalative	LC50/4h*	0.31 mg/l (rat) (OECD 403)

Additional information: * tested as a respirable aerosol

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.

Germ cell mutagenicity No data available.

Carcinogenicity Suspected of causing cancer.

Reproductive toxicity No data available.

STOT-single exposure May cause respiratory irritation.

STOT-repeated exposure May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard No data available.

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
The mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f), Regulation (EU) 2017/2100 or Regulation (EU) 2018/605 at levels of 0.1% or higher.

SECTION 12: Ecological information

12.1 Toxicity
Aquatic toxicity:
For the product there are no ecotoxicological data available.

CAS: 25686-28-6 4,4'-methylenediphenyl diisocyanate, oligomers	
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)

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EC50/72h	> 1,640 mg/l (alga, Desmodesmus subspicatus) (OECD 201)
EC50/3h	> 100 mg/l (activated sludge) (OECD 209)
NOEC/21d	≥ 10 mg/l (water flea, Daphnia magna) (OECD 211)

The statement was derived from substances/products of similar structure or composition.

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

12.2 Persistence and degradability
4,4'-methylenediphenyl diisocyanate, oligomers: not readily biodegradable (according to OECD criteria).
Degradability: 0 % BOD of COD (28 d) (OECD Guideline 302 C; aerobic, wastewater).
The statement was derived from substances/products of similar structure or composition.
Stability in water: on contact with water the substance hydrolyses slowly.
Hydrolysis: approx. t1/2 20 h, (50 h; 25 °C). The assessment was derived from products with similar chemical character.

12.3 Bioaccumulative potential
4,4'-methylenediphenyl diisocyanate, oligomers: does not accumulate significantly in organisms.
The statement was derived from substances/products of similar structure or composition.
Bioaccumulative potential: Bioconcentration factor (BCF): 92 - 200 (28 d), Cyprinus carpio (OECD 305 E).

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

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14.2 UN proper shipping name	
ADR	1950 AEROSOLS
IMDG	AEROSOLS
IATA	AEROSOLS, flammable
14.3 Transport hazard class(es)	
ADR	
	
Class	2 5F Gases.
Label	2.1
IMDG, IATA	
	
Class	2.1 Gases.
Label	2.1
14.4 Packing group	
ADR, IMDG, IATA	void
14.5 Environmental hazards:	not applicable
14.6 Special precautions for user	Warning: Gases.
Hazard identification number (Kemler code):	-
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

Seveso category P3a FLAMMABLE AEROSOLS

Restrictions according to Annex XVII of the Regulation (EC) 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.

Methylenediphenyl diisocyanate (MDI), including some specific monomers, was included in Annex XVII (entry 56) of REACH by Regulation (EC) No 552/2009.
Diisocyanates, O = C=NR-N = C=O, were included in Annex XVII (entry 74) of REACH by Regulation (EU) 2020/1149.

VOC (EC): 0.25 kg/kg

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

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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.
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:
The classification of the mixture is in accordance with point 1.1.3.7, Annex I, Part 1 of the CLP Regulation.

Date of previous version: 02.11.2022

Abbreviations and acronyms:
UFI: Unique Formula Identifier
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)
EINECS: European Inventory of Existing Commercial Chemical Substances
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
IOELV: indicative occupational exposure limit values (EU)
MAK: maximum concentration of a chemical substance in the workplace
AGW: occupational exposure limit
DNEL: Derived No-Effect Level
PNEC: Predicted No-Effect Concentration
LC50: lethal concentration, 50%
LD50: lethal dose, 50%
EC50: maximal effective concentration, 50%
NOEC: no observed effect concentration
OECD: Organisation for Economic Co-operation and Development
BOD: biochemical oxygen demand
COD: chemical oxygen demand
BCF: bioconcentration factor
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
VOC: Volatile Organic Compounds
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

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STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2

Data compared to the previous version altered: Section 1,2,4,9,10,16