

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Trade name:** GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR**1.2 Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

Application of the substance / the mixture Adhesive**1.3 Details of the supplier of the safety data sheet****Manufacturer/Supplier:**

Bison International

Dr.A.F.Philipsstraat 9

NL-4462 EW Goes

PO Box 160

NL-4460 AD Goes

tel. +31 88 3235700

fax. +31 88 3235800

e mail: sds@boltonadhesives.com

Further information obtainable from: PSRA**1.4 Emergency telephone number:**

National Poisons Information Centre: +353 (1) 809 2166 (8.00 a.m. to 10.00 p.m. 7 days a week)

Healthcare Professionals: +353 (1) 809 2566 (24 hour service)

SECTION 2: Hazards identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS02 flame

Aerosol 1

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



GHS09 environment

Aquatic Acute 1

H400

Very toxic to aquatic life.

Aquatic Chronic 1

H410

Very toxic to aquatic life with long lasting effects.



GHS07

Skin Irrit. 2

H315

Causes skin irritation.

STOT SE 3

H336

May cause drowsiness or dizziness.

Asp. Tox. 1

H304

May be fatal if swallowed and enters airways.

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

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

(Contd. on page 2)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 1)

· **Hazard pictograms**



GHS02 GHS07 GHS09

· **Signal word** Danger

· **Hazard-determining components of labelling:**

Naphtha (petroleum), hydrotreated light
pentane
Acetone

· **Hazard statements**

H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
H315 Causes skin irritation.
H336 May cause drowsiness or dizziness.
H410 Very toxic to aquatic life with long lasting effects.

· **Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.
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 spray.
P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501 Dispose of contents/container in accordance with national regulations.

· **2.3 Other hazards**

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.
· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**

· **Description:** Adhesive

· **Dangerous components:**

CAS: 115-10-6 EINECS: 204-065-8 Index number: 603-019-00-8 Reg.nr.: 01-2119472128-37	dimethyl ether ⚠ Flam. Gas 1A, H220; Press. Gas (Comp.), H280	25-50%
CAS: 64742-49-0 EC number: 926-605-8 Index number: 649-328-00-1 Reg.nr.: 01-2119486291-36-XXXX	Naphtha (petroleum), hydrotreated light ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336, EUH066	25-50%
CAS: 109-66-0 EINECS: 203-692-4 Index number: 601-006-00-1	pentane ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Chronic 2, H411; ⚠ STOT SE 3, H336	≥10-<25%

(Contd. on page 3)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

CAS: 67-64-1
EINECS: 200-662-2
Index number: 606-001-00-8
Reg.nr.: 01-2119471330-49-XXXX

Acetone
⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336, EUH066

(Contd. of page 2)

≥2.5-<10%

· **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:** No special measures required.

· **After inhalation:**

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

· **After skin contact:** Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents:**

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

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

No further relevant information available.

· **5.3 Advice for firefighters**

· **Protective equipment:** No special measures required.

SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

Wear protective equipment. Keep unprotected persons away.

· **6.2 Environmental precautions:**

Inform respective authorities in case of seepage into water course or sewage system.

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

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

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· **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.

IE

(Contd. on page 4)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 3)

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace.
- **Information about fire - and explosion protection:**
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
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.
- **7.2 Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**
Observe official regulations on storing packagings with pressurised containers.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** 2 B
- **7.3 Specific end use(s)** No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· **Ingredients with limit values that require monitoring at the workplace:**

115-10-6 dimethyl ether

OEL (Ireland)	Long-term value: 1920 mg/m ³ , 1000 ppm
IOELV	IOELV

IOELV (EU)	Long-term value: 1920 mg/m ³ , 1000 ppm
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109-66-0 pentane

OEL (Ireland)	Long-term value: 3000 mg/m ³ , 1000 ppm
IOELV	IOELV

IOELV (EU)	Long-term value: 3000 mg/m ³ , 1000 ppm
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67-64-1 Acetone

OEL (Ireland)	Long-term value: 1210 mg/m ³ , 500 ppm
IOELV	IOELV

IOELV (EU)	Long-term value: 1210 mg/m ³ , 500 ppm
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· **DNELs**

64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	Consumer, oral, longterm exposition	1301 mg/kg bw/day (rat)
Dermal	Worker, dermal, longterm exposition	13964 mg/kg bw/day (rat)
	Consumer, dermal, longterm exposition	1377 mg/kg bw/day (rat)
Inhalative	Worker, inhalative, longterm exposition	5306 mg/m ³ (rat)
	Consumer, inhalative, longterm exposition	1131 mg/m ³ (rat)

67-64-1 Acetone

Oral	Consumer, oral, longterm exposition	62 mg/kg bw/day
Dermal	Worker, dermal, longterm exposition	186 mg/kg bw/day
	Consumer, dermal, longterm exposition	62 mg/kg bw/day

(Contd. on page 5)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 4)

Inhalative	Worker, inhalative, shortterm exposition	2420 mg/m ³
	Worker, inhalative, longterm exposition	1210 mg/m ³
	Consumer, inhalative, longterm exposition	200 mg/m ³

· **PNECs**

67-64-1 Acetone

Fresh water	10.6 mg/l
Fresh water sediment	30.4 mg/kg dry weight
Marine water	1.06 mg/l
Marine sediment	3.04 mg/kg dry weight
Soil	29.5 mg/kg
Sewage treatment plant	100 mg/l
Sporadic release	21 mg/l

· **Additional information:** The lists valid during the making were used as basis.

· **8.2 Exposure controls**

· **Appropriate engineering controls** No further data; see section 7.

· **Individual protection measures, such as personal protective equipment**

· **General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Do not inhale gases / fumes / aerosols.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

· **Respiratory protection:** Not required.

· **Hand protection**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

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

· **Material of gloves**

Recommended thickness of the material: > 0,12 mm

Nitrile rubber, NBR

· **Penetration time of glove material**

For the mixture of chemicals mentioned below the penetration time has to be at least 10 minutes (Permeation according to EN 374 Part 3: Level 1).

· **Eye/face protection** Not required.

IE

(Contd. on page 6)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 5)

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· Physical state	Aerosol
· Colour:	According to product specification
· Odour:	Characteristic
· Odour threshold:	Not determined.
· Melting point/freezing point:	Undetermined.
· Boiling point or initial boiling point and boiling range	-24.9 °C
· Flammability	Not applicable.
· Lower and upper explosion limit	
· Lower:	1.4 Vol %
· Upper:	18.6 Vol %
· Flash point:	-42 °C
· Auto-ignition temperature:	235 °C
· Decomposition temperature:	Not determined.
· pH	Not determined.
· Viscosity:	
· Kinematic viscosity	Not determined.
· Dynamic:	Not determined.
· Solubility	
· water:	Not miscible or difficult to mix.
· Partition coefficient n-octanol/water (log value)	Not determined.
· Vapour pressure at 20 °C:	5200 hPa
· Density and/or relative density	
· Density at 20 °C:	1.047 g/cm ³
· Relative density	Not determined.
· Vapour density	Not determined.

· 9.2 Other information

All relevant physical data were determined for the mixture. All non-determined data are not measurable or not relevant for the characterization of the mixture.

· Appearance:	
· Form:	Aerosol
· Important information on protection of health and environment, and on safety.	
· Ignition temperature:	Product is not selfigniting.
· Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· Solvent content:	
· Organic solvents:	83.0 %
· Solids content:	6.1 %
· Change in condition	
· Evaporation rate	Not applicable.

(Contd. on page 7)

IE

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 6)

Information with regard to physical hazard classes

· Explosives	Void
· Flammable gases	Void
· 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** No further relevant information available.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known.
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** No dangerous decomposition products known.

SECTION 11: Toxicological information

- **11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**
- **Acute toxicity** Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

115-10-6 dimethyl ether

Inhalative	LC50/4 h	308 mg/l (rat)
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64742-49-0 Naphtha (petroleum), hydrotreated light

Oral	LD50	>5000 mg/kg (rat)
Dermal	LD50	>3000 mg/kg (rabbit)
Inhalative	LC50/4 h	>20 mg/l (rat)

(Contd. on page 8)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 7)

67-64-1 Acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	>15800 mg/kg (rat)
Inhalative	LC50/4 h	76 mg/l (rat)

• 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**

Not applicable.

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.**• STOT-single exposure** May cause drowsiness or dizziness.**• STOT-repeated exposure** Based on available data, the classification criteria are not met.**• Aspiration hazard** May be fatal if swallowed and enters airways.**• Additional toxicological information:****• Acute effects (acute toxicity, irritation and corrosivity)** Not applicable.**• Sensitisation** Not applicable.**• Repeated dose toxicity** Not applicable.**• 11.2 Information on other hazards****• Endocrine disrupting properties**

None of the ingredients is listed.

SECTION 12: Ecological information**• 12.1 Toxicity****• Aquatic toxicity:** No further relevant information available.**• 12.2 Persistence and degradability** No further relevant information available.**• 12.3 Bioaccumulative potential** No further relevant information available.**• 12.4 Mobility in soil** No further relevant information available.**• 12.5 Results of PBT and vPvB assessment****• PBT:** Not applicable.**• vPvB:** Not applicable.**• 12.6 Endocrine disrupting properties**

The product does not contain substances with endocrine disrupting properties.

• 12.7 Other adverse effects**• Remark:** Very toxic for fish**• Additional ecological information:****• General notes:**

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

Also poisonous for fish and plankton in water bodies.

Very toxic for aquatic organisms

(Contd. on page 9)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 8)

SECTION 13: Disposal considerations

· **13.1 Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Disposal must be made according to official regulations.

· **Uncleaned packaging:**

· **Recommendation:**

Packagings that may not be cleansed are to be disposed of in the same manner as the product.

SECTION 14: Transport information

· **14.1 UN number or ID number**

· **ADR/ADN, IMDG, IATA**

UN3501

· **14.2 UN proper shipping name**

· **ADR/ADN**

3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, PENTANES)

· **IMDG**

CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, PENTANES), MARINE POLLUTANT

· **IATA**

CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, PENTANES)

· **14.3 Transport hazard class(es)**

· **ADR/ADN**



· **Class**

2 5F Gases.

· **Label**

2.1

· **IMDG**



· **Class**

2.1 Gases.

· **Label**

2.1

(Contd. on page 10)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 9)

· IATA



· **Class** 2.1 Gases.
 · **Label** 2.1

· **14.4 Packing group**
 · **ADR/ADN, IMDG, IATA** not regulated

· **14.5 Environmental hazards:** Product contains environmentally hazardous substances: Naphtha (petroleum), hydrotreated light
 · **Marine pollutant:** No
 Symbol (fish and tree)
 · **Special marking (ADR/ADN):** Symbol (fish and tree)

· **14.6 Special precautions for user** Warning: Gases.
 · **Hazard identification number (Kemler code):** -
 · **Stowage Category** D
 · **Stowage Code** SW2 Clear of living quarters.

· **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

· **Transport/Additional information:**
 · **Quantity limitations** On passenger aircraft/rail: 75 kg
 On cargo aircraft only: 150 kg

· **ADR/ADN**
 · **Limited quantities (LQ)** 0
 · **Excepted quantities (EQ)** Code: E0
 Not permitted as Excepted Quantity
 · **Transport category** 2
 · **Tunnel restriction code** D

· **IMDG**
 · **Limited quantities (LQ)** 1L
 · **Excepted quantities (EQ)** Code: E0
 Not permitted as Excepted Quantity

· **UN "Model Regulation":** UN 3501 CHEMICAL UNDER PRESSURE, FLAMMABLE, N.O.S. (DIMETHYL ETHER, PENTANES), 2.1, ENVIRONMENTALLY HAZARDOUS

(Contd. on page 11)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 10)

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I** None of the ingredients is listed.
- **Seveso category**
E1 Hazardous to the Aquatic Environment
P3a FLAMMABLE AEROSOLS
- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 100 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 200 t
- **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3

- **DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II**

None of the ingredients is listed.

- **REGULATION (EU) 2019/1148**

- **Regulation (EC) No 273/2004 on drug precursors**

67-64-1	Acetone	3
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- **Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors**

67-64-1	Acetone	3
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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.
H225 Highly flammable liquid and vapour.
H280 Contains gas under pressure; may explode if heated.
H304 May be fatal if swallowed and enters airways.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H411 Toxic to aquatic life with long lasting effects.
EUH066 Repeated exposure may cause skin dryness or cracking.

- **Classification according to Regulation (EC) No 1272/2008**

Aerosols, Section 2.3.1	Bridging principles
Skin corrosion/irritation Specific target organ toxicity (single exposure) Hazardous to the aquatic environment - short-term (acute) aquatic hazard Hazardous to the aquatic environment - long-term (chronic) aquatic hazard	The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.
Aspiration hazard	Expert judgement

(Contd. on page 12)

Safety data sheet

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

Printing date 31.07.2024

Version number 35 (replaces version 34)

Revision: 31.07.2024

Trade name: GRF SPRAY ADHESIVE CS570 CS 13KG*1 NLFR

(Contd. of page 11)

- **Department issuing SDS:** PSRA
- **Contact:** PSRA
- **Date of previous version:** 19.06.2021
- **Version number of previous version:** 34
- **Abbreviations and acronyms:**
 - ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
 - IMDG: International Maritime Code for Dangerous Goods
 - IATA: International Air Transport Association
 - GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 - EINECS: European Inventory of Existing Commercial Chemical Substances
 - ELINCS: European List of Notified Chemical Substances
 - CAS: Chemical Abstracts Service (division of the American Chemical Society)
 - DNEL: Derived No-Effect Level (REACH)
 - PNEC: Predicted No-Effect Concentration (REACH)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
 - PBT: Persistent, Bioaccumulative and Toxic
 - vPvB: very Persistent and very Bioaccumulative
 - Flam. Gas 1A: Flammable gases – Category 1A
 - Aerosol 1: Aerosols – Category 1
 - Press. Gas (Comp.): Gases under pressure – Compressed gas
 - Flam. Liq. 2: Flammable liquids – Category 2
 - Skin Irrit. 2: Skin corrosion/irritation – Category 2
 - Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
 - STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
 - Asp. Tox. 1: Aspiration hazard – Category 1
 - Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1
 - Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1
 - Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

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