

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

Printing date 14.03.2016

Version number 8

Revision: 14.03.2016

**1 Identification of the substance/mixture and of the company/undertaking****· Product identifier****· Trade name: BRUNOX® Epoxy - Spray****· Relevant identified uses of the substance or mixture and uses advised against**

No further relevant information available.

**· Sector of Use**

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU21 Consumer uses: Private households / general public / consumers

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

**· Product category**

PC9a Coatings and paints, thinners, paint removers

PC14 Metal surface treatment products, including galvanic and electroplating products

**· Process category**

PROC7 Industrial spraying

PROC11 Non industrial spraying

**· Environmental release category**

ERC8c Wide dispersive indoor use resulting in inclusion into or onto a matrix

ERC8f Wide dispersive outdoor use resulting in inclusion into or onto a matrix

**· Application of the substance / the mixture** Coating material**· Details of the supplier of the safety data sheet****· Manufacturer/Supplier:**

BRUNOX Korrosionsschutz GmbH

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Postfach 100127, 85001 Ingolstadt

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Distributor in New Zealand  
R A Johnstone & Co Ltd  
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Auckland. New Zealand

Tel: + 64 9 250 0090

Fax: + 64 9 250 0092

www.raj.co.nz

Emergency telephone in New Zealand(24 hours)  
National Poison Center : 0800 POISON [764 766]

**· Further information obtainable from:** Abteilung Produktsicherheit: Tel. +41/ (0)79 372 34 44**· Emergency telephone number:**

Toxikologisches Informationszentrum

CH - 8030 Zürich, Freiestrasse 16

Tel. +41/ 044 251 51 51

Notruf - CH, STIZ : 145

Notruf - BE - : 070 -245 245

Notruf - GB - : 844 892 0111

Notruf - IE - : + 353 1 837 9964 (medical professionals); + 353 1 809 2166 (public)

Notruf - IS - : + 354 543 22 22

Notruf - D - : Giftnotrufzentrale 030 19240

EUROPÄISCHE NOTRUFNR. : 112

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**Trade name: BRUNOX® Epoxy - Spray**

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Notruf - JP - : + 81 72 727 2499; + 81 29 852 9999  
Notruf - NZ - : 0800 764 766  
Notruf - PK - : + 92 21 9920509; + 92 21 35686535  
Notruf - PH - : + 632 524 10 78; + 632 544 84 00; local 2311  
Notruf - SA - : + 966 146 77 353, + 966 3 8155 646; Ext. 280, 282, 283  
Notruf - TH - : + 66 201 1086  
Notruf - UAE - : 800 424  
Notruf - ZA - : + 27 824 910 160

**2 Hazards identification****· Classification of the substance or mixture**

flame

Aerosol 1 H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.



Skin Irrit. 2 H315 Causes skin irritation.  
Eye Irrit. 2A H319 Causes serious eye irritation.  
STOT SE 3 H336 May cause drowsiness or dizziness.

**· Classification according to Directive 67/548/EEC or Directive 1999/45/EC**

Not applicable.



Xi; Irritant

R36: Irritating to eyes.



F+; Extremely flammable

R12: Extremely flammable.  
R67: Vapours may cause drowsiness and dizziness.

**· Information concerning particular hazards for human and environment:**

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Warning! Pressurised container.

**· Classification system:**

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

**· Label elements****· GHS label elements**

The product is classified and labelled according to the Globally Harmonised System (GHS).

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**Hazard pictograms**

GHS02 GHS07

**Signal word** Danger**Hazard statements**

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**Other hazards****Results of PBT and vPvB assessment**

PBT: Not applicable.

vPvB: Not applicable.

**3 Composition/information on ingredients****Chemical characterisation: Mixtures****Description:** Mixture of substances listed below with nonhazardous additions.**Dangerous components:**

CAS: 67-64-1 acetone 25-50%

EINECS: 200-662-2 Xi R36; F R11  
R66-67

Flam. Liq. 2, H225

Eye Irrit. 2, H319; STOT SE 3, H336

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**Trade name: BRUNOX® Epoxy - Spray**

CAS: 108-10-1	4-methylpentan-2-one	(Contd. of page 3)
EINECS: 203-550-1	Xn R20;  Xi R36/37;  F R11	2,5-<10%
	R66	
	Flam. Liq. 2, H225	
	Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	
CAS: 67-63-0	propan-2-ol	2,5-<10%
EINECS: 200-661-7	Xi R36;  F R11	
	R67	
	Flam. Liq. 2, H225	
	Eye Irrit. 2, H319; STOT SE 3, H336	
CAS: 107-98-2	1-methoxy-2-propanol	2,5-<10%
EINECS: 203-539-1	R10-67	
	Flam. Liq. 3, H226	
	STOT SE 3, H336	
CAS: 10024-97-2	dinitrogen oxide	2,5-<10%
EINECS: 233-032-0	O R8	
	Ox. Gas 1, H270	
	Press. Gas L, H280	
CAS: 112-34-5	2-(2-butoxyethoxy)ethanol	2,5-<10%
EINECS: 203-961-6	Xi R36	
	Eye Irrit. 2, H319	
CAS: 64-18-6	formic acid	0,1-<2%
EINECS: 200-579-1	C R35	
	Acute Tox. 3, H331	
	Skin Corr. 1C, H314	
	Acute Tox. 4, H302	

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

**4 First aid measures****Description of first aid measures****General information:**

Take affected persons out into the fresh air.  
Do not leave affected persons unattended.  
Position and transport stably in side position.  
Seek medical treatment.

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** If skin irritation continues, consult a doctor.

**After eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

**After swallowing:**

Rinse out mouth and then drink plenty of water.

A person vomiting while laying on their back should be turned onto their side.

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- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed**  
Disziness  
Disziness
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

**5 Firefighting measures**

- **Extinguishing media**
- **Suitable extinguishing agents:** CO<sub>2</sub>, sand, extinguishing powder. Do not use water.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture**  
In case of fire, the following can be released:  
Carbon monoxide (CO)
- **Advice for firefighters**
- **Protective equipment:**  
Do not inhale explosion gases or combustion gases.  
Wear self-contained respiratory protective device.
- **Additional information** Cool endangered receptacles with water spray.

**6 Accidental release measures**

- **Personal precautions, protective equipment and emergency procedures**  
Ensure adequate ventilation  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:**  
Do not allow product to reach sewage system or any water course.  
Inform respective authorities in case of seepage into water course or sewage system.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Send for recovery or disposal in suitable receptacles.  
Ensure adequate ventilation.  
Do not flush with water or aqueous cleansing agents
- **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.

**7 Handling and storage**

- **Handling:**
- **Precautions for safe handling**  
Store in cool, dry place in tightly closed receptacles.  
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).

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Ensure good ventilation/exhaustion at the workplace.

Open and handle receptacle with care.

**Information about fire - and explosion protection:**

Do not spray onto a naked flame or any incandescent material.

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.

**Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:**

Store in a cool location.

Observe official regulations on storing packagings with pressurised containers.

**Information about storage in one common storage facility:** Store away from foodstuffs.**Further information about storage conditions:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

Keep container tightly sealed.

Do not seal receptacle gas tight.

Store in cool, dry conditions in well sealed receptacles.

Protect from heat and direct sunlight.

**Specific end use(s)** No further relevant information available.**8 Exposure controls/personal protection**

**Additional information about design of technical facilities:** No further data; see item 7.

**Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 67-64-1 acetone**

WES Short-term value: 2375 mg/m<sup>3</sup>, 1000 ppm

Long-term value: 1185 mg/m<sup>3</sup>, 500 ppm  
bio

**CAS: 108-10-1 4-methylpentan-2-one**

WES Short-term value: 307 mg/m<sup>3</sup>, 75 ppm

Long-term value: 205 mg/m<sup>3</sup>, 50 ppm

**CAS: 67-63-0 propan-2-ol**

WES Short-term value: 1230 mg/m<sup>3</sup>, 500 ppm

Long-term value: 983 mg/m<sup>3</sup>, 400 ppm

**CAS: 107-98-2 1-methoxy-2-propanol**

WES Short-term value: 553 mg/m<sup>3</sup>, 150 ppm

Long-term value: 369 mg/m<sup>3</sup>, 100 ppm

**CAS: 10024-97-2 dinitrogen oxide**

WES Long-term value: 45 mg/m<sup>3</sup>, 25 ppm

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**CAS: 64-18-6 formic acid**WES Short-term value: 19 mg/m<sup>3</sup>, 10 ppmLong-term value: 9,4 mg/m<sup>3</sup>, 5 ppm

- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**
  - 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 eyes.
  - Avoid contact with the eyes and skin.
- **Respiratory protection:**
  - Short term filter device:
    - Filter A/P2
    - Filter AX
  - In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- **Protection of hands:**
  - Check the permeability prior to each renewed use of the glove.



Protective gloves

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

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

- **Material of gloves**
  - Nitrile rubber, NBR
  - Butyl rubber, BR
- The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **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 protection:**

Tightly sealed goggles

**· Body protection:** Solvent resistant protective clothing**\* 9 Physical and chemical properties****· Information on basic physical and chemical properties****· General Information****· Appearance:****Form:**

Aerosol

**Colour:**

Amber coloured

**· Odour:**

Characteristic

**· Odour threshold:**

Not determined.

**· pH-value at 20 °C:**

4,8

**· Change in condition****Melting point/Melting range:**

Undetermined.

**Boiling point/Boiling range:**

55 °C

**· Flash point:**

13 °C

**· Flammability (solid, gaseous):**

Not applicable.

**· Ignition temperature:**

270 °C

**· Decomposition temperature:**

Not determined.

**· Self-igniting:**

Product is not selfigniting.

**· Danger of explosion:**

Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

**· Explosion limits:****Lower:**

2,6 Vol %

**Upper:**

13,0 Vol %

**· Vapour pressure at 20 °C:**

233 hPa

**· Density at 20 °C:**0,93 g/cm<sup>3</sup>**· Relative density**

Not determined.

**· Vapour density**

Not determined.

**· Evaporation rate**

Not applicable.

**· Solubility in / Miscibility with****water:**

Not miscible or difficult to mix.

**· Partition coefficient (n-octanol/water):** Not determined.

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- **Viscosity:**
  - Dynamic:** Not determined.
  - Kinematic:** Not determined.
- **Solvent content:**
  - Organic solvents:** 65,5 %
  - VOC (EC)** 65,47 %
- **Solids content:** 0,8 %
- **Other information** No further relevant information available.

**10 Stability and reactivity**

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Possibility of hazardous reactions** Danger of bursting.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**
  - ATE (Acute Toxicity Estimates)**
  - Oral LD50 17039 mg/kg (rat)
  - Dermal LD50 152672 mg/kg (rabbit)
  - Inhalative LC50/4 h 18,2 mg/l
- **CAS: 67-64-1 acetone**
  - Oral LD50 5800 mg/kg (rat)
  - Dermal LD50 20000 mg/kg (rabbit)
- **CAS: 108-10-1 4-methylpentan-2-one**
  - Oral LD50 2080 mg/kg (rat)
  - Dermal LD50 16000 mg/kg (rab)
  - Inhalative LC50/4 h 8,3-16,6 mg/l (rat)
- **CAS: 67-63-0 propan-2-ol**
  - Oral LD50 5045 mg/kg (rat)

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Dermal LD50 12800 mg/kg (rabbit)

Inhalative LC50/4 h 30 mg/l (rat)

**CAS: 107-98-2 1-methoxy-2-propanol**

Oral LD50 5660 mg/kg (rat)

Dermal LD50 13000 mg/kg (rabbit)

Inhalative LC50/4 h 6 mg/l (rat)

**CAS: 10024-97-2 dinitrogen oxide**

Inhalative LC50/4 h 1,06 mg/l (rat)

**CAS: 112-34-5 2-(2-butoxyethoxy)ethanol**

Oral LD50 5660 mg/kg (rat)

Dermal LD50 4000 mg/kg (rabbit)

**CAS: 64-18-6 formic acid**

Oral LD50 1100 mg/kg (rat)

Inhalative LC50/4 h 3 mg/l (ATE)

- **Primary irritant effect:**
- **Skin corrosion/irritation** No irritant effect.
- **Serious eye damage/irritation** Irritating effect.
- **Respiratory or skin sensitisation** No sensitising effects known.
- **Additional toxicological information:**

The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:

Irritant

**12 Ecological information**

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**

**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water  
Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**Results of PBT and vPvB assessment**

- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

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**13 Disposal considerations**

- **Waste treatment methods**
- **Recommendation**  
Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- **European waste catalogue**  
HP 3 Flammable  
HP 4 Irritant - skin irritation and eye damage  
HP 5 Specific Target Organ Toxicity (STOT)/Aspiration Toxicity
- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.

**14 Transport information**

- **UN-Number**
- **ADR,RID,ADN, IMDG, IATA** UN1950
- **UN proper shipping name**
- **ADR/RID/ADN** 1950 AEROSOLS
- **IMDG** AEROSOLS
- **IATA** AEROSOLS, flammable
- **Transport hazard class(es)**
- **ADR/RID/ADN**
- 
- **Class** 2 5F Gases.
- **Label** 2.1
- **IMDG, IATA**
- 
- **Class** 2.1
- **Label** 2.1
- **Packing group**
- **ADR,RID,ADN, IMDG, IATA** Void

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- **Environmental hazards:**
- **Marine pollutant:** No
- **Special precautions for user** Warning: Gases.
- **Danger code (Kemler):** -
- **EMS Number:** F-D,S-U
- **Stowage Code** SW1 Protected from sources of heat.  
SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters.  
SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.
- **Segregation Code**
- **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.
- **Transport/Additional information:**
- **ADR/RID/ADN**
- **Limited quantities (LQ)** 1L
- **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 1950 AEROSOLS, 2.1

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **New Zealand Inventory of Chemicals**  
All ingredients are listed.
- **GHS label elements**  
The product is classified and labelled according to the Globally Harmonised System (GHS).

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The HSNO Approval Number for this Group Standard is HSR002515.
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**· Hazard pictograms**

GHS02 GHS07

**· Signal word** Danger**· Hazard statements**

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

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

**· Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

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.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

**· Directive 2012/18/EU****· Named dangerous substances - ANNEX I** None of the ingredients is listed.**· Seveso category** P3b FLAMMABLE AEROSOLS**· Qualifying quantity (tonnes) for the application of lower-tier requirements** 5.000 t**· Qualifying quantity (tonnes) for the application of upper-tier requirements** 50.000 t**· Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.**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**

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H270 May cause or intensify fire; oxidiser.

H280 Contains gas under pressure; may explode if heated.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

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- H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H336 May cause drowsiness or dizziness.
- R10 Flammable.  
R11 Highly flammable.  
R20 Harmful by inhalation.  
R35 Causes severe burns.  
R36 Irritating to eyes.  
R36/37 Irritating to eyes and respiratory system.  
R66 Repeated exposure may cause skin dryness or cracking.  
R67 Vapours may cause drowsiness and dizziness.  
R8 Contact with combustible material may cause fire.

• **Department issuing SDS:** Abteilung Produktsicherheit

• **Contact:** siehe Seite 1 / see page 1

• **Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organisation

ADR: Accord européen sur le transport 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

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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Aerosol 1: Flammable aerosols, Hazard Category 1

Ox. Gas 1: Oxidising Gases, Hazard Category 1

Press. Gas L: Gases under pressure: Liquefied gas

Flam. Liq. 2: Flammable liquids, Hazard Category 2

Flam. Liq. 3: Flammable liquids, Hazard Category 3

Acute Tox. 3: Acute toxicity, Hazard Category 3

Acute Tox. 4: Acute toxicity, Hazard Category 4

Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C

Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation, Hazard Category 2A

STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

• **\* Data compared to the previous version altered.**