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

Printing date 26.04.2015 Version number 7 Revision: 26.04.2015

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

· **1.1 Product identifier**

· **Trade name: BRUNOX® Epoxy - Spray**
· **1.2 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
rust neutraliser and epoxy primer

· **1.3 Details of the supplier of the safety data sheet**
· **Manufacturer/Supplier:**
BRUNOX Korrosionsschutz GmbH
Adlzreiterstrasse 13, 85051 Ingolstadt
Postfach 100127 , 85001 Ingolstadt

Tel. + 49/ (0) 841 961 29 04
Fax + 49/ (0) 841 961 29 13
E-mail: office@brunox.com
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BRUNOX AG
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CH - 8732 Neuhaus/SG

Tel. +41/ (0)55 285 80 80
Fax +41/ (0)55 285 80 81
E-mail: office@brunox.com
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· **Further information obtainable from:** Abteilung Produktsicherheit: Tel. +41/ (0)79 372 34 44
· **1.4 Emergency telephone number:**
Toxikologisches Informationszentrum
CH - 8030 Zürich, Freiestrasse 16
Tel. +41/ 044 251 51 51
Notruf - CH, STIZ : 145 Notruf - D - : Giftnotrufzentrale 030 19240
Notruf - BE - : 070 -245 245 EUROPÄISCHE NOTRUFNR. : 112
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 - JP - : + 81 72 727 2499; + 81 29 852 9999
Notruf - NZ - : 0800 764 766
Notruf - PK - : + 92 21 9920509; + 92 21 35686535

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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

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SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**
· **Classification according to Regulation (EC) No 1272/2008**


GHS02 flame

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


GHS07

Eye Irrit. 2	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.

· **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

· **Signal word** Danger

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· **Hazard-determining components of labelling:**
acetone
· **Hazard statements**
H222-H229 Extremely flammable aerosol. Pressurised container: May burst if heated.
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.
P211 Do not spray on an open flame or other ignition source.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves / eye protection.
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.
· **Additional information:**
Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C.
Do not pierce or burn, even after use.
Do not spray on a naked flame or any incandescent material. Keep away from sources of ignition - No smoking.
· **2.3 Other hazards**
· **Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.

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SECTION 3: Composition/information on ingredients

· **3.2 Mixtures**
· **Description:** Mixture of substances listed below with nonhazardous additions.
· **Dangerous components:**

CAS: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-XXXX	acetone Xi R36; F R11 R66-67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	25-50%
CAS: 108-10-1 EINECS: 203-550-1 Reg.nr.: 01-2119473980-30-XXXX	4-methylpentan-2-one Xn R20; Xi R36/37; F R11 R66 Flam. Liq. 2, H225 Acute Tox. 4, H332; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-10%

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CAS: 107-98-2 EINECS: 203-539-1 Reg.nr.: 01-2119457435-35-XXXX	1-methoxy-2-propanol R10-67 Flam. Liq. 3, H226 STOT SE 3, H336	2.5-10%
CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-XXXX	propan-2-ol Xi R36; F R11 R67 Flam. Liq. 2, H225 Eye Irrit. 2, H319; STOT SE 3, H336	2.5-10%
CAS: 10024-97-2 EINECS: 233-032-0 Reg.nr.: 01-2119970538-25-XXXX	dinitrogen oxide O R8 Ox. Gas 1, H270 Press. Gas L, H280	2.5-10%
CAS: 64-18-6 EINECS: 200-579-1 Reg.nr.: 01-2119491174-37-XXXX	formic acid C R35 Acute Tox. 3, H331 Skin Corr. 1C, H314 Acute Tox. 4, H302	≤2.0%
CAS: 112-34-5 EINECS: 203-961-6 Reg.nr.: 01-2119475104-44-XXXX	2-(2-butoxyethoxy)ethanol Xi R36 Eye Irrit. 2, H319	≤2.8%

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

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SECTION 4: First aid measures

· **4.1 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.
· **4.2 Most important symptoms and effects, both acute and delayed**
Disziness
Disziness
· **4.3 Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

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SECTION 5: Firefighting measures

· **5.1 Extinguishing media**
· **Suitable extinguishing agents:** CO2, sand, extinguishing powder. Do not use water.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet

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· **5.2 Special hazards arising from the substance or mixture**
In case of fire, the following can be released:
Carbon monoxide (CO)
· **5.3 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.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Wear protective equipment. Keep unprotected persons away.
· **6.2 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.
· **6.3 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
· **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**
Store in cool, dry place in tightly closed receptacles.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
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.

· **7.2 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.

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Protect from heat and direct sunlight.

· **7.3 Specific end use(s)** No further relevant information available.

*
SECTION 8: Exposure controls/personal protection

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

· **8.1 Control parameters**

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

67-64-1 acetone

WEL (Great Britain)	Short-term value: 3620 mg/m³, 1500 ppm Long-term value: 1210 mg/m³, 500 ppm
NES (Australia)	Short-term value: 2375 mg/m³, 1000 ppm Long-term value: 1185 mg/m³, 500 ppm
WES (New Zealand)	Short-term value: 2375 mg/m³, 1000 ppm Long-term value: 1185 mg/m³, 500 ppm bio

108-10-1 4-methylpentan-2-one

WEL (Great Britain)	Short-term value: 416 mg/m³, 100 ppm Long-term value: 208 mg/m³, 50 ppm Sk, BMGV
NES (Australia)	Short-term value: 307 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm
WES (New Zealand)	Short-term value: 307 mg/m³, 75 ppm Long-term value: 205 mg/m³, 50 ppm

67-63-0 propan-2-ol

WEL (Great Britain)	Short-term value: 1250 mg/m³, 500 ppm Long-term value: 999 mg/m³, 400 ppm
NES (Australia)	Short-term value: 1230 mg/m³, 500 ppm Long-term value: 983 mg/m³, 400 ppm
WES (New Zealand)	Short-term value: 1230 mg/m³, 500 ppm Long-term value: 983 mg/m³, 400 ppm

107-98-2 1-methoxy-2-propanol

WEL (Great Britain)	Short-term value: 560 mg/m³, 150 ppm Long-term value: 375 mg/m³, 100 ppm Sk
NES (Australia)	Short-term value: 553 mg/m³, 150 ppm Long-term value: 369 mg/m³, 100 ppm
WES (New Zealand)	Short-term value: 553 mg/m³, 150 ppm Long-term value: 369 mg/m³, 100 ppm

10024-97-2 dinitrogen oxide

WEL (Great Britain)	Long-term value: 183 mg/m³, 100 ppm
NES (Australia)	Long-term value: 45 mg/m³, 25 ppm
WES (New Zealand)	Long-term value: 45 mg/m³, 25 ppm

112-34-5 2-(2-butoxyethoxy)ethanol

WEL (Great Britain)	Short-term value: 101.2 mg/m³, 15 ppm Long-term value: 67.5 mg/m³, 10 ppm

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64-18-6 formic acid

WEL (Great Britain)	Long-term value: 9.6 mg/m³, 5 ppm
NES (Australia)	Short-term value: 19 mg/m³, 10 ppm Long-term value: 9.4 mg/m³, 5 ppm
WES (New Zealand)	Short-term value: 19 mg/m³, 10 ppm Long-term value: 9.4 mg/m³, 5 ppm

· **Ingredients with biological limit values:**

108-10-1 4-methylpentan-2-one

BMGV (Great Britain)	20 µmol/L Medium: urine Sampling time: post shift Parameter: 4-methylpentan-2-one

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

· **8.2 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 anewed 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

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SECTION 9: Physical and chemical properties

· **9.1 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 (68 °F):**	4.8
· **Change in condition**	
Melting point/Melting range:	Undetermined.
Boiling point/Boiling range:	55 °C (131 °F)
· **Flash point:**	13 °C (55 °F)
· **Flammability (solid, gaseous):**	Not applicable.
· **Ignition temperature:**	270 °C (518 °F)
· **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 (68 °F):**	233 hPa (175 mm Hg)
· **Density at 20 °C (68 °F):**	0.93 g/cm³ (7.761 lbs/gal)
· **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.
· **Viscosity:**	
Dynamic:	Not determined.
Kinematic:	Not determined.
· **Solvent content:**	
Organic solvents:	65.5 %

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VOC (EC) 64.03 %

Solids content: 0.8 %

· **9.2 Other information** No further relevant information available.

*
SECTION 10: Stability and reactivity

· **10.1 Reactivity**
· **10.2 Chemical stability** stable
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used and stored according to specifications.
· **10.3 Possibility of hazardous reactions** Danger of bursting.
· **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.

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SECTION 11: Toxicological information

· **11.1 Information on toxicological effects**
· **Acute toxicity:**
· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	69620 mg/kg (rat)
Inhalative	LC50/4 h	18.2 mg/l

67-64-1 acetone

Oral	LD50	5800 mg/kg (rat)
Dermal	LD50	20000 mg/kg (rabbit)

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)

67-63-0 propan-2-ol

Oral	LD50	5045 mg/kg (rat)
Dermal	LD50	12800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

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)

10024-97-2 dinitrogen oxide

Inhalative	LC50/4 h	1.06 mg/l (rat)

112-34-5 2-(2-butoxyethoxy)ethanol

Oral	LD50	5660 mg/kg (rat)
Dermal	LD50	4000 mg/kg (rabbit)

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64-18-6 formic acid

Oral	LD50	1100 mg/kg (rat)
Inhalative	LC50/4 h	3 mg/l (ATE)

· **Primary irritant effect:**
· **on the skin:** No irritant effect.
· **on the eye:** Irritating effect.
· **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

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.
· **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.
· **12.5 Results of PBT and vPvB assessment**
· **PBT:** Not applicable.
· **vPvB:** Not applicable.
· **12.6 Other adverse effects** No further relevant information available.

*
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.

· **Uncleaned packaging:**
· **Recommendation:** Disposal must be made according to official regulations.

*
SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR, IMDG, IATA** UN1950

· **14.2 UN proper shipping name**
· **ADR** 1950 AEROSOLS
· **IMDG** AEROSOLS
· **IATA** AEROSOLS, flammable

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· **14.3 Transport hazard class(es)**

· **ADR**

· **Class**	2 5F Gases.
· **Label**	2.1

· **IMDG, IATA**

· **Class**	2.1
· **Label**	2.1
· **14.4 Packing group**	
· **ADR, IMDG, IATA**	Void
· **14.5 Environmental hazards:**	
· **Marine pollutant:**	No
· **14.6 Special precautions for user**	Warning: Gases.
· **Danger code (Kemler):**	-
· **EMS Number:**	F-D,S-U
· **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	Not applicable.
· **Transport/Additional information:**	
· **ADR**	
· **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":**	UN1950, AEROSOLS, 2.1

*
SECTION 15: Regulatory information

· **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
No further relevant information available.

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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**

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.
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 MSDS:** 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
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)
VOC: Volatile Organic Compounds (USA, EU)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
Flam. 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
Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3
· *** Data compared to the previous version altered.**