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

Printing date 02.04.2017 Version number 6 Revision: 02.04.2017

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

· **1.1 Product identifier**

· **Trade name: BRUNOX® epoxy® (AEROSOL)**
· **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
· **Process category**
PROC5 Mixing or blending in batch processes
PROC7 Industrial spraying
PROC8a Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)
PROC10 Roller application or brushing
PROC11 Non industrial spraying
PROC13 Treatment of articles by dipping and pouring
· **Environmental release category**
ERC8c Widespread use leading to inclusion into/onto article (indoor)
ERC8f Widespread use leading to inclusion into/onto article (outdoor)
· **Application of the substance / the mixture** Coating material

· **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
Tunnelstrasse 6
CH - 8732 Neuhaus/SG

Tel. +41/ (0)55 285 80 80
Fax +41/ (0)55 285 80 81

E-mail: office@brunox.com
www.brunox.swiss

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

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**Trade name: BRUNOX® epoxy® (AEROSOL)**

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· **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
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

## 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.


GHS07

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

· **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. |
| P211 | Do not spray on an open flame or other ignition source. |
| 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. |

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

| | | |
|---|---|---|
| CAS: 67-64-1<br>EINECS: 200-662-2<br>Reg.nr.: 01-2119471330-49-XXXX | acetone<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319; STOT SE 3, H336 | 25-50% |
| CAS: 107-98-2<br>EINECS: 203-539-1<br>Reg.nr.: 01-2119457435-35-XXXX | 1-methoxy-2-propanol<br>Flam. Liq. 3, H226<br>STOT SE 3, H336 | 2.5-<10% |
| CAS: 108-65-6<br>EINECS: 203-603-9<br>Reg.nr.: 01-2119475791-29-XXXX | 2-methoxy-1-methylethyl acetate<br>Flam. Liq. 3, H226 | 2.5-<10% |
| CAS: 67-63-0<br>EINECS: 200-661-7<br>Reg.nr.: 01-2119457558-25-XXXX | propan-2-ol<br>Flam. Liq. 2, H225<br>Eye Irrit. 2, H319; STOT SE 3, H336 | 2.5-<10% |

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| | | |
|---|---|---|
| CAS: 10024-97-2<br>EINECS: 233-032-0<br>Reg.nr.: 01-2119970538-25-XXXX | dinitrogen oxide<br>Ox. Gas 1, H270<br>Press. Gas (Liq.), H280 | 2.5-<10% |
| CAS: 112-34-5<br>EINECS: 203-961-6<br>Reg.nr.: 01-2119475104-44-XXXX | 2-(2-butoxyethoxy)ethanol<br>Eye Irrit. 2, H319 | 2.5-<10% |
| CAS: 64-18-6<br>EINECS: 200-579-1<br>Reg.nr.: 01-2119491174-37-XXXX | formic acid<br>Acute Tox. 3, H331<br>Skin Corr. 1C, H314<br>Acute Tox. 4, H302 | 0.1-<2% |

· **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:**
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.
In case of unconsciousness place patient stably in side position for transportation.
· **After skin contact:**
Immediately wash with water and soap and rinse thoroughly.
Generally the product does not irritate the skin.
· **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.
If symptoms persist consult doctor.
· **4.2 Most important symptoms and effects, both acute and delayed**
Dizziness
Dizziness
· **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, sand, extinguishing powder. Do not use water.
· **For safety reasons unsuitable extinguishing agents:** Water with full jet
· **5.2 Special hazards arising from the substance or mixture**
Can form explosive gas-air mixtures.

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During heating or in case of fire poisonous gases are produced.
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.
Collect contaminated fire fighting water separately. It must not enter the sewage system.

## 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:**
Ensure adequate ventilation.
Send for recovery or disposal in suitable receptacles.
Do not flush with water or aqueous cleansing agents
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
· **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**
Use only in well ventilated areas.
Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level. (Fumes are heavier than air).
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.

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· **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:**
Keep container tightly sealed.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
· **7.3 Specific end use(s)** No further relevant information available.

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## 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:**

**CAS: 67-64-1 acetone**

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

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

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

**CAS: 108-65-6 2-methoxy-1-methylethyl acetate**

| | |
|---|---|
| WEL (Great Britain) | Short-term value: 548 mg/m³, 100 ppm<br>Long-term value: 274 mg/m³, 50 ppm<br>Sk |
| WES (Australia) | Short-term value: 548 mg/m³, 100 ppm<br>Long-term value: 274 mg/m³, 50 ppm<br>Sk |

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**Trade name: BRUNOX® epoxy® (AEROSOL)**

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

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

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

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

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

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

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

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

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

· **8.2 Exposure controls**
· **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 eyes.
Avoid contact with the eyes and skin.
· **Respiratory protection:**
Use suitable respiratory protective device in case of insufficient ventilation.
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.
Short term filter device:
Filter A/P2
Filter AX
· **Protection of hands:**

Protective gloves

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Check the permeability prior to each anewed use of the glove.
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**
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.

· **Eye protection:**

Tightly sealed goggles

## SECTION 9: Physical and chemical properties

· **9.1 Information on basic physical and chemical properties**
· **General Information**
· **Appearance:**

| | |
|---|---|
| **Form:** | Fluid |
| **Colour:** | Amber coloured |
| · **Odour:** | Characteristic |
| · **Odour threshold:** | Not determined. |
| · **pH-value at 20 °C (68 °F):** | 4.8 |
| · **Change in condition** | |
| **Melting point/freezing point:** | Undetermined. |
| **Initial boiling point and boiling range:** | 82 °C (180 °F) |
| · **Flash point:** | 13 °C (55 °F) |
| · **Flammability (solid, gas):** | Not applicable. |
| · **Ignition temperature:** | 270 °C (518 °F) |
| · **Decomposition temperature:** | Not determined. |
| · **Auto-ignition temperature:** | Product is not selfigniting. |

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| | |
|---|---|
| · **Explosive properties:** | 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):** | 0.90 g/cm³ (7.511 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:** | 56.4 % |
| **VOC (EC)** | 68.75 % |
| **Solids content:** | 1.5 % |
| · **9.2 Other information** | No further relevant information available. |

## 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 toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.

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· **LD/LC50 values relevant for classification:**

**ATE (Acute Toxicity Estimates)**

| | | |
|---|---|---|
| Oral | LD50 | 70968 mg/kg (rat) |
| Inhalative | LC50/4 h | 20.7 mg/l |

**CAS: 67-64-1 acetone**

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

**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: 108-65-6 2-methoxy-1-methylethyl acetate**

| | | |
|---|---|---|
| Oral | LD50 | 8532 mg/kg (rat) |
| Inhalative | LC50/4 h | 35.7 mg/l (rat) |

**CAS: 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) |

**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**
Bei längeren und/oder häufigem Hautkontakt sind Reizerscheinungen möglich.
Prolonged skin contact will result in defatting of the skin, leading to irritation, and in some cases, dermatitis.

· **Serious eye damage/irritation**
Causes serious eye irritation.

· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.

· **CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)**

· **Germ cell mutagenicity** 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.

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· **STOT-repeated exposure** Based on available data, the classification criteria are not met.
· **Aspiration hazard** Based on available data, the classification criteria are not met.

## 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.
· **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:**
Empty contaminated packagings thoroughly. They may be recycled after thorough and proper cleaning.
Disposal must be made according to official regulations.

## SECTION 14: Transport information

· **14.1 UN-Number**
· **ADR/RID/ADN, IMDG, IATA** UN1950

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· **14.2 UN proper shipping name**

| | |
|---|---|
| · **ADR/RID/ADN** | 1950 AEROSOLS |
| · **IMDG** | AEROSOLS |
| · **IATA** | AEROSOLS, flammable |

· **14.3 Transport hazard class(es)**

· **ADR/RID/ADN**

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

· **IMDG, IATA**

| | |
|---|---|
| · **Class** | 2.1 |
| · **Label** | 2.1 |

· **14.4 Packing group**

| | |
|---|---|
| · **ADR/RID/ADN, 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 |
| · **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. |
| · **Segregation Code** | 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. |
| · **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code** | Not applicable. |

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· **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

## 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** 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
· **REGULATION (EC) No 1907/2006 ANNEX XVII** Conditions of restriction: 3
· **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.
H336 May cause drowsiness or dizziness.
· **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)

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

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**Trade name: BRUNOX® epoxy® (AEROSOL)**

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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
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Aerosol 1: Aerosols – Category 1
Ox. Gas 1: Oxidizing gases – Category 1
Press. Gas (Liq.): Gases under pressure – Liquefied gas
Flam. Liq. 2: Flammable liquids – Category 2
Flam. Liq. 3: Flammable liquids – Category 3
Acute Tox. 4: Acute toxicity – Category 4
Acute Tox. 3: Acute toxicity – Category 3
Skin Corr. 1C: Skin corrosion/irritation – Category 1C
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3

· *** Data compared to the previous version altered.**