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in accordance with HSNO

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*
1 Identification of the substance or mixture and of the supplier

· **Other means of identification**

· **Trade name: BRUNOX® epoxy® - BULK**

· **Article number:** BRUNOX epoxy-BULK
· **Relevant identified uses of the substance or mixture and uses advised against**
· **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

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

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Distributor in New Zealand:
Pacer - Car Clean Products NZ Ltd
33 Ha Crescent, Wiri, Auckland 2104 New Zealand
Phone 09 25000 91
Email sales@pacer.co.nz
Web www.pacer.co.nz

24HR Emergency Assistance in New Zealand:
National Poison Control Center: 0800 POISON [764 766]

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· **Further information obtainable from:**
Abteilung Produktsicherheit / Product Safety Department:

Tel. - Switzerland: +41/ (0)55 285 80 80
Tel. - Germany: +49 / (0)841 961 29 04

Mo - Do / Mon - Thu: 08:00 - 16:00 Uhr
Fr / Fri: 08:00 - 12:00 Uhr

· **Emergency telephone number:**
Während den normalen Oeffnungszeiten / Office hours:
7:30-12:00, 13:00-17:00 - Tel. +41/ (0)55 285 80 80 or Tel. +49/ (0)841 961 2904

2 Hazards identification

· **Classification of the substance or mixture**

GHS02 flame

Flammable liquids Category 2 H225 Highly flammable liquid and vapour.

GHS07

Skin irritation Category 2 H315 Causes skin irritation.
Eye irritation Category 2 H319 Causes serious eye irritation.

· **Classification according to Directive 67/548/EEC or Directive 1999/45/EC**
Not applicable.

Xi; Irritant

R36/38: Irritating to eyes and skin.

F; Highly flammable

R11: Highly 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.

· **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**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.
H319 Causes serious eye irritation.
· **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
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.

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· **Dangerous components:**

CAS: 108-65-6 EINECS: 203-603-9	2-methoxy-1-methylethyl acetate R10 Flammable liquids Category 3, H226	10-25%
CAS: 67-63-0 EINECS: 200-661-7	propan-2-ol Xi R36 F R11 R67 Flammable liquids Category 2, H225 Eye irritation Category 2, H319; Specific target organ toxicity - single exposure Category 3, H336	2.5-10%
CAS: 67-64-1 EINECS: 200-662-2	acetone Xi R36 F R11 R66-67 Flammable liquids Category 2, H225 Eye irritation Category 2, H319; Specific target organ toxicity - single exposure Category 3, H336	2.5-10%
CAS: 107-98-2 EINECS: 203-539-1	1-methoxy-2-propanol R10-67 Flammable liquids Category 3, H226 Specific target organ toxicity - single exposure Category 3, H336	2.5-10%
CAS: 64-18-6 EINECS: 200-579-1	formic acid C R35 Acute inhalation toxicity Category 3, H331 Corrosive to metals Category 1, H290; Skin corrosion Category 1A, H314; Serious eye damage Category 1, H318 Acute oral toxicity Category 4, H302	2.5-10%

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

4 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:**
Take affected persons into fresh air and keep quiet.
In case of unconsciousness place patient stably in side position for transportation.

· **After skin contact:**
If skin irritation continues, consult a doctor.
Immediately wash with water and soap and rinse thoroughly.

· **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

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

5 Fire fighting measures

· **Suitable extinguishing agents:** CO2, 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**
Formation of toxic gases is possible during heating or in case of fire.
In case of fire, the following can be released:
Carbon monoxide (CO)
· **Protective equipment:**
Do not inhale explosion gases or combustion gases.
Wear self-contained respiratory protective device.

6 Accidental release measures

· **Personal precautions, protective equipment and emergency procedures**
Ensure adequate ventilation
Keep away from ignition sources.
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.
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
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.

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7 Handling and storage

· **Handling:**
· **Precautions for safe handling**
Keep receptacles tightly sealed.
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.
Prevent formation of aerosols.
· **Information about fire - and explosion protection:**
Highly volatile, flammable constituents are released during processing.
Do not spray onto a naked flame or any incandescent material.
Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
· **Storage:**
· **Requirements to be met by storerooms and receptacles:**
Store only in the original receptacle.
Store in a cool location.
· **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.
· **Storage class:** 3
· **Specific end use(s)** No further relevant information available.

8 Exposure controls/personal protection

· **Appropriate engineering controls** No further data; see section 7.
· **Ingredients with limit values that require monitoring at the workplace:**

CAS: 67-63-0 propan-2-ol
WES Short-term value: 983 mg/m³, 400 ppm
Long-term value: 491 mg/m³, 200 ppm

CAS: 67-64-1 acetone
WES Short-term value: 2375 mg/m³, 1000 ppm
Long-term value: 1185 mg/m³, 500 ppm
bio

CAS: 107-98-2 1-methoxy-2-propanol
WES Short-term value: 553 mg/m³, 150 ppm
Long-term value: 369 mg/m³, 100 ppm

CAS: 64-18-6 formic acid
WES Short-term value: 19 mg/m³, 10 ppm
Long-term value: 9.4 mg/m³, 5 ppm

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

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· **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 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.
· **Eye protection:**

Tightly sealed goggles

· **Body protection:** Solvent resistant protective clothing

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9 Physical and chemical properties

· **General Information**	
· **Appearance:**	
· **Form:**	Fluid
· **Colour:**	Amber coloured
· **Odour:**	Characteristic
· **Odour threshold:**	Not determined.
· **pH-value at 20 °C:**	3.9
· **Change in condition**	
· **Melting point/freezing point:**	Undetermined.
· **Initial boiling point and boiling range:**	82 °C
· **Flash point:**	13 °C
· **Flammability**	Not applicable.
· **Auto-ignition temperature:**	225 °C
· **Decomposition temperature:**	Not determined.
· **Ignition temperature:**	Product is not selfigniting.
· **Explosive properties:**	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
· **Explosion limits:**	
· **Lower:**	1.5 Vol %
· **Upper:**	20 Vol %
· **Vapour pressure at 20 °C:**	12 hPa
· **Density at 20 °C:**	0.99 g/cm³
· **Relative density**	Not determined.
· **Vapour density**	Not determined.
· **Evaporation rate**	Not determined.
· **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:**	
· **Water:**	27.25 %
· **VOC (EC)**	40.86 %
· **Solids content:**	1.5 %
· **Other information**	No further relevant information available.
· **Particle characteristics**	Not applicable.

10 Stability and reactivity

· **Reactivity** No further relevant information available.
· **Thermal decomposition / conditions to be avoided:**
No decomposition if used according to specifications.

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· **Possibility of hazardous reactions** Forms explosive gas mixture with air.
· **Conditions to avoid** No further relevant information available.
· **Incompatible materials:** No further relevant information available.
· **Hazardous decomposition products:** No dangerous decomposition products known.
· **Additional information:**
As long as the prescribed application concentrations are maintained there is no danger that stable emulsions will form.

11 Toxicological information

· **Information on toxicological effects**
· **Acute toxicity** Based on available data, the classification criteria are not met.
· **LD/LC50 values relevant for classification:**

ATE (Acute Toxicity Estimates)

Oral	LD50	36,789 mg/kg (rat)
Inhalative	LC50/4 h	100 mg/l

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

Oral	LD50	8,532 mg/kg (rat)
Dermal	LD50	>5,000 mg/kg (rat)
Inhalative	LC50/4 h	35.7 mg/l (rat)

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

Oral	LD50	5,045 mg/kg (rat)
Dermal	LD50	12,800 mg/kg (rabbit)
Inhalative	LC50/4 h	30 mg/l (rat)

CAS: 67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	>15,800 mg/kg (rat) 20,000 mg/kg (rabbit)
Inhalative	LC50/4 h	76 mg/l (rat)

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

Oral	LD50	5,660 mg/kg (rat)
Dermal	LD50	13,000 mg/kg (rabbit)
Inhalative	LC50/4 h	6 mg/l (rat)

CAS: 64-18-6 formic acid

Oral	LD50	500 mg/kg (ATE) 1,100 mg/kg (rat)
Inhalative	LC50/4 h	7.4 mg/l (ATE)

· **Primary irritant effect:**
· **Skin corrosion/irritation**
Causes skin irritation.

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· **Serious eye damage/irritation**
Causes serious eye irritation.
· **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
· **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** Based on available data, the classification criteria are not met.
· **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.

12 Ecological information

· **Toxicity**
· **Aquatic toxicity:**
CAS: 108-65-6 2-methoxy-1-methylethyl acetate
EC50 >500 mg/kg (daphnia)
LC50/96 h 160 mg/l (pimephales promelas)
CAS: 67-64-1 acetone
LC50/48 h 8,800 mg/l (daphnia)
CAS: 107-98-2 1-methoxy-2-propanol
EC50 >500 mg/kg (daphnia)
LC50/96 h 4,600-10,000 mg/l (leuciscus idus)
CAS: 64-18-6 formic acid
EC50 120 mg/kg (daphnia)
LC50/48 h 122 mg/l (leuciscus idus)
· **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.

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

14 Transport information

· **UN-Number**
· **NZS/RID/ADN, IMDG, IATA** UN1866

· **UN proper shipping name**
· **NZS/RID/ADN** 1866 RESIN SOLUTION, special provision 640D
· **IMDG, IATA** RESIN SOLUTION

· **Transport hazard class(es)**

· **NZS/RID/ADN, IMDG, IATA**

· **Class** 3 Flammable liquids.
· **Label** 3

· **Packing group**
· **NZS/RID/ADN, IMDG, IATA** II

· **Environmental hazards:**
· **Marine pollutant:** No

· **Special precautions for user** Warning: Flammable liquids.
· **Hazard identification number (Kemler code):** 33
· **EMS Number:** F-E,S-E
· **Stowage Category** B

· **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· **NZS/RID/ADN**
· **Limited quantities (LQ)** 5L

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· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml
· **Transport category** 2
· **Tunnel restriction code** D/E

· **IMDG**
· **Limited quantities (LQ)** 5L
· **Excepted quantities (EQ)** Code: E2
Maximum net quantity per inner packaging: 30 ml
Maximum net quantity per outer packaging: 500 ml

· **UN "Model Regulation":** UN 1866 RESIN SOLUTION, 3, II

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**
· **New Zealand Inventory of Chemicals**
CAS: 7732-18-5 water, distilled, conductivity or of similar purity
CAS: 108-65-6 2-methoxy-1-methylethyl acetate
CAS: 67-63-0 propan-2-ol
CAS: 67-64-1 acetone
CAS: 107-98-2 1-methoxy-2-propanol
CAS: 64-18-6 formic acid
CAS: 1401-55-4 Tannins
· **HSNO Approval numbers**

CAS: 67-63-0	propan-2-ol	HSR001180
CAS: 67-64-1	acetone	HSR001070
CAS: 107-98-2	1-methoxy-2-propanol	HSR001187
CAS: 64-18-6	formic acid	HSR000979

· **GHS label elements**
The product is classified and labelled according to the Globally Harmonised System (GHS).
· **Hazard pictograms**

GHS02 GHS07

NEW ZEALAND:
HSR002662 Surface Coatings and Colourants (Flammable) Group Standard 2020

· **Signal word** Danger
· **Hazard statements**
H225 Highly flammable liquid and vapour.
H315 Causes skin irritation.

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H319 Causes serious eye irritation.

· **Precautionary statements**

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read carefully and follow all instructions.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P241	Use explosion-proof [electrical/ventilating/lighting] equipment.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P403+P235	Store in a well-ventilated place. Keep cool.
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** P5c FLAMMABLE LIQUIDS
· **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.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H331 Toxic if inhaled.
H336 May cause drowsiness or dizziness.

R10 Flammable.
R11 Highly flammable.
R35 Causes severe burns.
R36 Irritating to eyes.
R66 Repeated exposure may cause skin dryness or cracking.
R67 Vapours may cause drowsiness and dizziness.

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· **Contact:**

· **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 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
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
Flammable liquids Category 2: Flammable liquids – Category 2
Flammable liquids Category 3: Flammable liquids – Category 3
Corrosive to metals Category 1: Corrosive to metals – Category 1
Acute oral toxicity Category 4: Acute toxicity – Category 4
Acute inhalation toxicity Category 3: Acute toxicity – Category 3
Skin corrosion Category 1A: Skin corrosion/irritation – Category 1A
Skin irritation Category 2: Skin corrosion/irritation – Category 2
Serious eye damage Category 1: Serious eye damage/eye irritation – Category 1
Eye irritation Category 2: Serious eye damage/eye irritation – Category 2
Specific target organ toxicity - single exposure Category 3: Specific target organ toxicity (single exposure) – Category 3

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