

according to Regulation (EC) No. 1907/2006 (REACH) and Regulation (EU) No.

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

#### 1.1 Product identifier

Trade name: ZZ 395

This safety data sheet pertains to the following products:

ZZ® 395 Fire Protection Casting Compound

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

General use: Fire protection means. Reserved for industrial and professional use.

#### 1.3 Details of the supplier of the safety data sheet

Company name: Karl Zimmermann GmbH

 Street/POB-No.:
 Marconistr. 7-9

 Postal Code, city:
 50769 Köln

 WWW:
 www.kzim.de

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Department responsible for information:

Lars Volkmer,

Telephone: +49 (0)221-97061-160, e-mail Lars.Volkmer@kzim.de

#### 1.4 Emergency telephone number

GIZ-Nord, Göttingen, Germany Telephone: +49 551-19240

#### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Classification according to EC regulation 1272/2008 (CLP)

Skin Irrit. 2; H315 Causes skin irritation.

Eye Irrit. 2; H319 Causes serious eye irritation.

#### 2.2 Label elements

#### Labelling (CLP)



Signal word: Warning

Hazard statements: H315 Causes skin irritation.

H319 Causes serious eye irritation.



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Precautionary statements:

Wash hands and face thoroughly after handling.

P280 Wear protective gloves/protective clothing/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.

P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P362+P364 Take off contaminated clothing and wash it before reuse.

#### 2.3 Other hazards

Special danger of slipping by leaking/spilling product.

Results of PBT and vPvB assessment:

No data available

### **SECTION 3: Composition/information on ingredients**

3.1 Substances: not applicable

#### 3.2 Mixtures

Chemical characterisation: A mixture of: Butadiene-polymers, ammonium salts and additives

Hazardous ingredients:

Ingredient	Designation	Content	Classification
EC No. 251-459-0 CAS 33329-35-0	N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine	< 2.5 %	Acute Tox. 4; H312. Skin Corr. 1B; H314. Eye Dam. 1; H318. Aquatic Chronic 3; H412.
	Oxirane, phenyl-, polymer with oxirane, monooctyl ether	< 2.5 %	Aquatic Chronic 3; H412.

Full text of H- and EUH-statements: see section 16.

Additional information: Contains: Aluminium hydroxide

The maximum workplace exposure limits are, where necessary, listed in section 8.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

General information: First aider: Pay attention to self-protection!

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

contaminated clothing and wash it before reuse.

In case of inhalation: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable

for breathing. Seek medical attention.

Following skin contact: Immediately clean with water and soap followed by thorough rinsing. Seek medical

attention.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids

apart. Remove contact lenses, if present and easy to do. Continue rinsing. Subsequently

consult an ophthalmologist.

After swallowing: Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an

unconscious person. Do not induce vomiting. Seek medical attention.

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#### 4.2 Most important symptoms and effects, both acute and delayed

Causes serious eye irritation. Causes skin irritation.

#### 4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media:

Water spray jet, foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

#### 5.2 Special hazards arising from the substance or mixture

May form dangerous gases and vapours in case of fire.

Furthermore, there may develop: Ammonia, nitrogen oxides (NOx), aluminium

compounds, silicon compounds, sulphur oxides, carbon monoxide and carbon dioxide

#### 5.3 Advice for firefighters

Special protective equipment for firefighters:

Use a breathing apparatus independent of the ambient air (isolated apparatus) and a full

protection outfit (suit) against chemicals.

Additional information: Hazchem-Code: -

Use fine water spray to cool endangered containers.

Do not allow water used to extinguish fire to enter drains, ground or waterways. Fire residuals and contaminated extinguishing water must be disposed of in accordance with

the regulations of the local authorities.

#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe mist/vapours/spray. Avoid contact with the substance.

If possible, eliminate leakage. Provide adequate ventilation.

Wear appropriate protective equipment. Take off contaminated clothing and wash it before reuse. Keep unprotected people away.

#### 6.2 Environmental precautions

Do not allow to enter into ground-water, surface water or drains.

If necessary notify appropriate authorities.

#### 6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal

binding agents) and place in closed containers for disposal.

Never return spills in original containers for re-use.

Additional information: Special danger of slipping by leaking/spilling product.

#### 6.4 Reference to other sections

Refer additionally to section 8 and 13.



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### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

Advices on safe handling: Provide adequate ventilation, and local exhaust as needed. Do not breathe

mist/vapours/spray. Do not get in eyes, on skin, or on clothing. Wear appropriate

protective equipment.

Do not eat, drink or smoke when using this product. Wash hands thoroughly after

handling. Take off contaminated clothing and wash it before reuse.

Have eye wash bottle or eye rinse ready at work place.

Precautions against fire and explosion:

Keep away from heat.

When handling larger quantities, take precautionary measures against electrostatic

charging.

#### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place. Keep container dry. Keep only in the original container.

Protect from heat and direct sunlight. Store containers in upright position.

Hints on joint storage: Keep away from food, drink and animal feedingstuffs.

#### 7.3 Specific end use(s)

Observe instructions for use.

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

Occupational exposure limit values:

CAS No.	Designation	Туре	Limit value
1309-37-1		Great Britain: WEL-STEL Great Britain: WEL-TWA Great Britain: WEL-TWA Great Britain: WEL-TWA Ireland: 15 minutes Ireland: 8 hours Ireland: 8 hours Ireland: 8 hours	10 mg/m³ (Smoke, calculated as Fe) 10 mg/m³ (inhalable fraction, red) 4 mg/m³ (respirable fraction, red) 5 mg/m³ (Smoke, calculated as Fe) 10 mg/m³ (Smoke, calculated as Fe) 10 mg/m³ (inhalable fraction, Rouge) 4 mg/m³ (respirable fraction, Rouge) 5 mg/m³ (Smoke, calculated as Fe)

#### 8.2 Exposure controls

Provide good ventilation and/or an exhaust system in the work area.

#### Personal protection equipment

#### Occupational exposure controls

Respiratory protection: When vapours form: Use combination filter type A-P2 according to EN 14387.

The filter class must be suitable for the maximum contaminant concentration (gas/vapour/aerosol/particulates) that may arise when handling the product.

Hand protection: Protective gloves according to EN 374.

Observe glove manufacturer's instructions concerning penetrability and breakthrough time.



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Eye protection: Tightly sealed goggles according to EN 166.

Body protection: Wear suitable protective clothing.

General protection and hygiene measures:

Do not breathe mist/vapours/spray. Do not get in eyes, on skin, or on clothing.

Take off contaminated clothing and wash it before reuse. Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

Have eye wash bottle or eye rinse ready at work place.

#### **Environmental exposure controls**

Refer to "6.2 Environmental precautions".

## **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Form: Pasty

Odour: No data available
Odour threshold: No data available

pH: No data available Melting point/freezing point: No data available Initial boiling point and boiling range: No data available Flash point/flash point range: No data available Evaporation rate: No data available Flammability: No data available Explosion limits: No data available No data available Vapour pressure: Vapour density: No data available Density: No data available Solubility: No data available No data available Partition coefficient: n-octanol/water: No data available Auto-ignition temperature: No data available Decomposition temperature: No data available Viscosity, kinematic:

Oxidizing characteristics: None

#### 9.2 Other information

Additional information: No data available

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Explosive properties:

Refer to subsection "Possilbility of hazardous reactions".

No data available

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#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

#### 10.4 Conditions to avoid

Protect from humidity and water.

Keep away from heat.

#### 10.5 Incompatible materials

No data available

#### 10.6 Hazardous decomposition products

No decomposition when used properly.

Thermal decomposition: No data available

## **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Toxicological effects: The statements are derived from the properties of the single components. No toxicological

data is available for the product as such.

Acute toxicity (oral): Lack of data.

Acute toxicity (dermal): Lack of data.

Acute toxicity (inhalative): Lack of data.

Skin corrosion/irritation: Skin Irrit. 2; H315 = Causes skin irritation.

Serious eye damage/irritation: Eye Irrit. 2; H319 = Causes serious eye irritation.

Sensitisation to the respiratory tract: Lack of data.

Skin sensitisation: Lack of data.

Germ cell mutagenicity/Genotoxicity: Lack of data.

Carcinogenicity: Lack of data.

Reproductive toxicity: Lack of data.

Effects on or via lactation: Lack of data.

Specific target organ toxicity (single exposure): Lack of data. Specific target organ toxicity (repeated exposure): Lack of data.

Aspiration hazard: Lack of data.

Other information: Information about N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine:

LD50 Rat, oral: 2,385 mg/kg LD50 Rabbit, dermal: 976 mg/kg LC50 Rat, inhalative: 1.8 mg/L/4h

#### **Symptoms**

After eye contact: Upon direct contact with eyes may cause burning, tearing, redness.

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### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Aquatic toxicity: Information about N,N-bis[3-(dimethylamino)propyl]-N',N'-dimethylpropane-1,3-diamine:

Fish toxicity:

EC50 Oryzias latipes (Ricefish): 430 mg/L/48h

Daphnia toxicity:

EC50 Daphnia magna (Big water flea): 48 mg/L/48h

Algae toxicity:

EC50 Desmodesmus subspicatus (green algae), growth rate: 74.9 mg/L/72h

#### 12.2 Persistence and degradability

Further details: No data available

#### 12.3 Bioaccumulative potential

Partition coefficient: n-octanol/water:

No data available

#### 12.4 Mobility in soil

No data available

#### 12.5 Results of PBT and vPvB assessment

No data available

#### 12.6 Other adverse effects

General information: Do not allow to penetrate into soil, waterbodies or drains.

# **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### **Product**

Waste key number: 08 04 09\* = Waste adhesives and sealants containing organic solvents or other

dangerous substances

MFSU = manufacture, formulation, supply and use

\* = Evidence for disposal must be provided.

Recommendation: Dispose of waste according to applicable legislation.

**Package** 

Waste key number: 15 01 02 = Plastic packaging

Recommendation: Dispose of waste according to applicable legislation.

Handle contaminated packages in the same way as the substance itself.

Non-contaminated packages may be recycled.

# **SECTION 14: Transport information**

#### 14.1 UN number

ADR/RID, IMDG, IATA-DGR:

not applicable

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#### 14.2 UN proper shipping name

ADR/RID, IMDG, IATA-DGR:

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Not restricted

#### 14.3 Transport hazard class(es)

ADR/RID, IMDG, IATA-DGR:

not applicable

#### 14.4 Packing group

ADR/RID, IMDG, IATA-DGR:

not applicable

#### 14.5 Environmental hazards

Marine pollutant:

#### 14.6 Special precautions for user

No dangerous good in sense of these transport regulations.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

No data available

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations - Great Britain

Hazchem-Code:

No data available

#### National regulations - EC member states

Labelling of packaging with <= 125mL content



Signal word: Warning

Hazard statements: not applicable
Precautionary statements: not applicable
Further regulations, limitations and legal requirements:

Use restriction according to REACH annex XVII, no.: 3, 75

#### 15.2 Chemical Safety Assessment

For this mixture a chemical safety assessment is not required.



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#### **SECTION 16: Other information**

#### **Further information**

Wording of the H-phrases under paragraph 2 and 3:

H312 = Harmful in contact with skin.

H314 = Causes severe skin burns and eye damage.

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

H319 = Causes serious eye irritation.

H412 = Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms

ADN: European Agreement concerning the International Carriage of Dangerous Goods by

Inland Waterways

ADR: European Agreement concerning the International Carriage of Dangerous Goods by

Road

AS/NZS: Australian Standards/New Zealand Standards

CAS: Chemical Abstracts Service CFR: Code of Federal Regulations

CLP: Classification, Labelling and Packaging

DMEL: Derived minimal effect level DNEL: Derived no-effect level

EC50: Effective Concentration 50%

EC: European Community EN: European Standard EU: European Union

MFSU: Manufacture, formulation, supply and use

IATA: International Air Transport Association

IBC Code: International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IMDG Code: International Maritime Dangerous Goods Code

LC50: Median lethal concentration

LD50: Lethal dose 50%

MARPOL: Maritime Pollution: The International Convention for the Prevention of Pollution

from Ships

OSHA: Occupational Safety and Health Administration

PBT: Persistent, bioaccumulative and toxic PNEC: Predicted no-effect concentration

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

vPvB: Very persistent and very bioaccumulative

Reason of change: Changes in section 3: Composition/information on ingredients

General revision

Date of first version: 21/1/2021

Department issuing data sheet

Contact person: see section 1: Department responsible for information