

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.12.2013

Version number 1

Revision: 10.12.2013

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

- **Product identifier**
- **Trade name:** *descaling Agent fusionchef (1 Liter)*
- **Article number:** 9FX1171
- **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*
- **Product category PC1** *Adhesives, sealants*
- **Process category**  
*PROC20 Heat and pressure transfer fluids in dispersive, professional use but closed systems*
- **Environmental release category**  
*ERC12a Industrial processing of articles with abrasive techniques (low release)*
- **Application of the substance / the preparation** *lime residue remover*
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
*fusionchef by Julabo  
Julabo GmbH  
Eisenbahnstrasse 45  
77960 Seelbach/Deutschland (Germany)*
- **Further information obtainable from:**  
*Sales and technical support  
+49(0)782351170*
- **Emergency telephone number:** *+49(0)89-19240 (24h)*

### 2 Hazards identification

- **Classification of the substance or mixture**
- **Classification according to Regulation (EC) No 1272/2008**  
*The product is not classified according to the CLP regulation.*

---

- **Classification according to Directive 67/548/EEC or Directive 1999/45/EC Void**
- **Information concerning particular hazards for human and environment:**  
*The product does not have 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**
- **Labelling according to EU guidelines:**  
*Observe the general safety regulations when handling chemicals.  
The product is not subject to identification regulations under EU Directives and the Ordinance on Hazardous Materials (German GefStoffV).*
- **Safety phrases:**  
*1/2 Keep locked up and out of the reach of children.  
26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
28 After contact with skin, wash immediately with plenty of water.*
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** *Not applicable.*
- **vPvB:** *Not applicable.*

### 3 Composition/information on ingredients

- **Chemical characterization:** *Mixtures*
- **Description:** *Calcium Remover*

(Contd. on page 2)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.12.2013

Version number 1

Revision: 10.12.2013

(Contd. of page 1)

**· Dangerous components:**

CAS: 5329-14-6	sulphamidic acid	18.0%
EINECS: 226-218-8	☒ Xi R36/38 R52/53	
	⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319; Aquatic Chronic 3, H412	

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

### 4 First aid measures

- **Description of first aid measures**
- **General information:** Take affected persons out into the fresh air.
- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Immediately rinse with water.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **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 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** Carbon dioxide (CO<sub>2</sub>)
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Collect contaminated fire fighting water separately. It must not enter the sewage system.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** Dilute with plenty of water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
See Section 7 for information on safe handling.  
Acidic mists will develop with an increased risk of respiratory irritation.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** Keep receptacles tightly sealed.
- **Information about fire - and explosion protection:** No special measures required.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:**  
Store only in the original receptacle.  
Container: PE-HDC

(Contd. on page 3)

## Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 10.12.2013

Version number 1

Revision: 10.12.2013

(Contd. of page 2)

- **Information about storage in one common storage facility:**  
Do not store together with reducing agents, heavy-metal compounds, acids and alkalis.
- **Further information about storage conditions:** Keep container tightly sealed.
- **Storage class:** VCI: 10
- **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:**  
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists valid during the making were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures are to be adhered to when handling chemicals.
- **Respiratory protection:** Not required.
- **Protection of hands:**  
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**  
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.
- **For the permanent contact gloves made of the following materials are suitable:** Butyl rubber, BR
- **Eye protection:** Goggles recommended during refilling

### 9 Physical and chemical properties

- |  |                           |
|--|---------------------------|
| · <b>Information on basic physical and chemical properties</b> |                           |
| · <b>General Information</b>                                   |                           |
| · <b>Appearance:</b>   |                           |
| Form:  | Fluid                     |
| Colour:  | Red                       |
| Odour:   | Weak, characteristic      |
| Odour threshold:   | Not determined.           |
| · <b>pH-value at 20 °C:</b>                                    | 2.6 ((Anwendungsbereich)) |
| · <b>Change in condition</b>                                   |                           |
| Melting point/Melting range:                                   | Undetermined.             |
| Boiling point/Boiling range:                                   | Undetermined.             |
| · <b>Flash point:</b>  | Not applicable.           |
| · <b>Flammability (solid, gaseous):</b>                        | Not applicable.           |

(Contd. on page 4)

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

Printing date 10.12.2013

Version number 1

Revision: 10.12.2013

(Contd. of page 3)

· <b>Ignition temperature:</b>	
· <b>Decomposition temperature:</b>	Not determined.
· <b>Self-igniting:</b> Product is not selfigniting.	
· <b>Danger of explosion:</b> Product does not present an explosion hazard.	
· <b>Explosion limits:</b>	
· <b>Lower:</b>	Not determined.
· <b>Upper:</b>	Not determined.
· <b>Vapour pressure:</b> Not determined.	
· <b>Density at 20 °C:</b> 0.9987 g/cm <sup>3</sup>	
· <b>Relative density:</b> Not determined.	
· <b>Vapour density:</b> Not determined.	
· <b>Evaporation rate:</b> Not determined.	
· <b>Solubility in / Miscibility with water:</b> Fully miscible.	
· <b>Partition coefficient (n-octanol/water):</b> Not determined.	
· <b>Viscosity:</b>	
· <b>Dynamic:</b>	Not determined.
· <b>Kinematic:</b>	Not determined.
· <b>Solvent content:</b>	
· <b>Organic solvents:</b>	0.0 %
· <b>VOC (EC)</b>	0.00 %
· <b>Other information:</b> No further relevant information available.	

## 10 Stability and reactivity

- **Reactivity**
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions:** Reacts with alkali (lyes).
- **Conditions to avoid:** No further relevant information available.
- **Incompatible materials:** oxidants, acids, bases
- **Hazardous decomposition products:** Nitrogen oxides (NO<sub>x</sub>)

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

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

5329-14-6 sulphamidic acid

Oral	LD50	3160 mg/kg (Ratte)
------	------	--------------------

- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

(Contd. on page 5)

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

Printing date 10.12.2013

Version number 1

Revision: 10.12.2013

(Contd. of page 4)

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

### 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
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Smaller quantities can be disposed of with household waste.

- **European waste catalogue**

06 01 06*	other acids
15 01 10*	packaging containing residues of or contaminated by dangerous substances

- **Uncleaned packaging:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

### 14 Transport information

· <b>UN-Number</b>	--
· <b>UN proper shipping name</b>	--
· <b>Transport hazard class(es)</b>	--
· <b>Packing group</b>	--
· <b>Environmental hazards:</b>	
· <b>Marine pollutant:</b>	No
· <b>Special precautions for user</b>	Not applicable.
· <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	Not dangerous according to the above specifications.
· <b>ADR</b>	
· <b>Remarks:</b>	No Dangerous Goods
· <b>IMDG</b>	
· <b>Remarks:</b>	No Dangerous Goods
· <b>IATA</b>	
· <b>Remarks:</b>	Not restricted

GB

(Contd. on page 6)

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

Printing date 10.12.2013

Version number 1

Revision: 10.12.2013

(Contd. of page 5)

**15 Regulatory information**

- **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.*

*This document has been created on: 27.02.2012*

- **Relevant phrases**

*H315 Causes skin irritation.*

*H319 Causes serious eye irritation.*

*H412 Harmful to aquatic life with long lasting effects.*

*R36/38 Irritating to eyes and skin.*

*R52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.*

- **Department issuing MSDS:**

*LOGAR Günther Hasel e.K.*

*Baden-Airpark, Airport Boulevard B 210*

*D-77836 Rheinmünster*

*Tel: +49(0)7229-1868-163*

*Fax: +49(0)7229-1868-165*

*Germany*

- **Contact:** *info@logar.de*

- **Abbreviations and acronyms:**

*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 Harmonized 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*