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|--|----------------------------|------------------------|
|  | <h1>SAFETY DATA SHEET</h1> | Page : 1 of 9          |
|  |                            | Revised edition no : 0 |
|  |                            | Date : 23 / 11 / 2015  |
|  |                            | Supersedes : 0 / 0 / 0 |
| <h2>JEFO ROEST-KALK-CEMENTVERWIJDERAAR</h2>                                      |                            | <h3>272372</h3>        |

Jefo Ship supply  
De Dissel 12  
8332 JH Steenwijk NETHERLANDS  
telefoon 0031(0)6-83701219

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

#### 1.1. Product identifier

**Trade name** : JEFO ROEST-KALK-CEMENTVERWIJDERAAR  
**Type of product** : Acidic cleaner.  
Cleaning product.  
**Format** : Commission Regulation (EU) No 453/2010 of 20 May 2010 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

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

**Directions for use** : See product bulletin/label for detailed information.  
**Sector of use category** : SU 22; Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
**Chemical product category** : PC35: Washing and cleaning products (including solvent based products)  
**Process category** : PROC13: Treatment of articles by dipping and pouring  
PROC 19; Manual mixing with intimate contact and only PPE available.

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

**Name and function of the responsible person** : Jefo Ship Supply  
T.a.v. Dhr. J.F. Braad  
De Dissel 12  
8332 JH Steenwijk  
Telefoon: +31(0)6-83701219  
E-mail: info@jefoshipsupply.nl

**Responsible for placing on the market** : See address above.

#### 1.4. Emergency telephone number

: Phone during office hours: 0031(0)6-83701219  
(UK) UK National Poisons Emergency number 0870 600 6266

### SECTION 2 Hazards identification

#### 2.1. Classification of the substance or mixture

**Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)**

• **Health hazards** : Skin corrosion - Category 1B - Danger - (CLP : Skin Corr. 1B) - H314  
Serious eye damage - Category 1 - Danger - (CLP : Eye Dam. 1) - H318

#### 2.2. Label elements

**Labelling Regulation EC 1272/2008 (CLP)**

• **Hazard pictograms**



• **Hazard pictograms** : GHS05  
• **Signal words** : Danger  
• **Contains** : Phosphoric acid - Ammoniumhydrogendifluoride  
• **Hazard statements** : H314 - Causes severe skin burns and eye damage

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De Dissel 12 8332 JH Steenwijk NETHERLANDS  
telefoon 0031(0)6-83701219



# SAFETY DATA SHEET

Page : 2 of 9

Revised edition no : 0

Date : 23 / 11 / 2015

Supersedes : 0 / 0 / 0

## JEFO ROEST-KALK-CEMENTVERWIJDERAAR

**272372**

### SECTION 2 Hazards identification (Continued)

#### • Precautionary statements

- General** : P102 - Keep out of reach of children.
- Prevention** : P260 - Do not breathe dust/fume/gas/mist/vapours/spray.  
P264 - Wash thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- Response** : P301+330+331 - If swallowed: Rinse mouth. Do NOT induce vomiting.  
P303+P361+P352 - IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Wash with plenty of soap and water.  
P304+340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P310 - Immediately call a POISON CENTER or doctor/physician  
P363 - Wash contaminated clothing before reuse
- Storage** : P405 - Store locked up
- Disposal considerations** : P501 - Dispose of contents and/or container in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

- Note.** : The information given in this chapter is valid for the undiluted product.
- PBT/vPvB evaluation** : No PBT/vPvB substances present in a concentration of 0,1% or higher in this mixture.

### SECTION 3 Composition/information on ingredients

- 3.1./3.2. Substance / Preparation** : Amounts are expressed in % w/w.  
**Substance / Preparation** : Preparation.

| Substance name             | Value(s)              | CAS No    | EC No     | Index No     | REACH            | Classification   |
|----------------------------|-----------------------|-----------|-----------|--------------|------------------|--|
| PHOSPHORIC ACID            | : Between 25 and 50 % | 7664-38-2 | 231-633-2 | 015-011-00-6 | 01-2119485924-24 | Skin Corr. 1B;H314   |
| FORMIC ACID                | : Between 1 and 4.9 % | 64-18-6   | 200-579-1 | 607-001-00-0 | 01-2119491174-37 | Eye Dam. 1;H318<br>Flam. Liq. 3;H226<br>Acute Tox. 4 (Inhalation);H332<br>Acute Tox. 4 (Oral);H302 |
| Ammoniumhydrogendifluoride | : Between 1 and 4.9 % | 1341-49-7 | 215-676-4 | 009-009-00-4 | 01-2119489180-38 | Acute Tox. 3 (Oral);H301<br>Skin Corr. 1B;H314   |

### SECTION 4 First aid measures

#### 4.1. Description of first aid measures

- Inhalation** : Remove victim to fresh air.
- Skin contact** : Wash skin thoroughly with mild soap and water.  
For even minor contact, immediately remove contaminated clothing/wash skin thoroughly with mild soap / water.  
Seek medical attention immediately.
- Eye contact** : In case of eye contact, immediately rinse with clean water for 10-15 minutes.  
Remove contact lenses.  
Contact ophthalmologist immediately.
- Ingestion** : If swallowed seek medical advice immediately and show this container or label.  
Administer lukewarm water or milk (ca. 200 ml.).  
If swallowed, rinse mouth with water (only if the person is conscious).

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

- General Information.** : In case of doubt or if symptoms persist, always call a doctor.

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

- General Information.** : Seek medical attention if ill effect or irritation develops.  
See: <http://www.cdc.gov/NIOSH/ipcs/icstart.html>

#### Jefo Ship supply

De Dissel 12 8332 JH Steenwijk NETHERLANDS  
telefoon 0031(0)6-83701219



# SAFETY DATA SHEET

Page : 3 of 9

Revised edition no : 0

Date : 23 / 11 / 2015

Supersedes : 0 / 0 / 0

## JEFO ROEST-KALK-CEMENTVERWIJDERAAR

272372

### SECTION 4 First aid measures (Continued)

### SECTION 5 Firefighting measures

#### 5.1. Extinguishing media

##### Extinguishing media

- Suitable extinguishing media : Product not combustible.

Surrounding fires : All known extinguishants can be used.  
Use water spray to cool exposed surfaces.

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

Specific hazards : None, under normal circumstances.

Hazardous combustion products : Incomplete combustion may form carbon monoxide.

#### 5.3. Advice for firefighters

Flammable class : Product not combustible.

Special protective equipment for fire fighters : None.

Special procedures : Avoid (reject) fire-fighting water to enter environment.

### SECTION 6 Accidental release measures

General information : Material spilled on hard surface can present a serious slipping/falling hazard.

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

Personal precautions : Wear suitable protective clothing and gloves.  
Ensure adequate air ventilation.  
Equip cleanup crew with proper protection.

#### 6.2. Environmental precautions

Environmental precautions : Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous.  
Prevent entry to sewers and public waters.

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

Clean up methods : Clean up any spills as soon as possible, using an absorbent material to collect it.  
Impound and recover large spill by mixing it with inert granular solids.  
Dilute residues and flush.

#### 6.4. Reference to other sections

: SECTION 8

### SECTION 7 Handling and storage

#### 7.1. Precautions for safe handling

General, : Keep away from food, drink and animal feeding stuffs.  
When using do not eat or drink.

Personal protection : Wear suitable protective clothing, gloves and eye/face protection.

Handling : Avoid contact of the undiluted product with the skin and eyes kleding. Wear no cloths soaked with this product, or on clothing.

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

Storage : Keep only in the original container in a cool, well ventilated place.  
Keep from freezing.

#### Jefo Ship supply

De Dissel 12 8332 JH Steenwijk NETHERLANDS  
telefoon 0031(0)6-83701219



# SAFETY DATA SHEET

Page : 4 of 9

Revised edition no : 0

Date : 23 / 11 / 2015

Supersedes : 0 / 0 / 0

## JEFO ROEST-KALK-CEMENTVERWIJDERAAR

272372

### SECTION 7 Handling and storage (Continued)

**Storage life** : Material is stable at least for 12 months.

#### 7.3. Specific end use(s)

**decontamination Procedures** : Wash hands after use with soap and water.

### SECTION 8 Exposure controls/personal protection

#### 8.1. Control parameters

Phosphoric acid : MAC [mg/m<sup>3</sup>] : 1  
Phosphoric acid : TGG 8 uur (nl) (mg/m<sup>3</sup>) : 1  
Phosphoric acid : TGG 15 min (nl) (mg/m<sup>3</sup>) : 2  
Formic acid : TLV<sup>o</sup>-TWA [mg/m<sup>3</sup>] : 9.4  
Formic acid : MAC [mg/m<sup>3</sup>] : 9  
Formic acid : MAC [ppm] : 5  
Formic acid : TGG 15 min (nl) (mg/m<sup>3</sup>) : 5

#### 8.2. Exposure controls

**Personal protection** : Avoid all unnecessary exposure.  
**-Respiratory protection** : No special protection required where adequate ventilation is maintained.  
**- Skin protection** : Wear nitril gloves.  
**- Eye protection** : Safety glasses with side guards should be worn to prevent injury from airborne particles and/or other eye contact with this product.  
**General hygiene** : When using, do not eat, drink or smoke.  
Avoid contact of the undiluted product with the skin, the eyes and clothing.  
Wash hands after use with soap and water.

### SECTION 9 Physical and chemical properties

**Physical state at 20 °C** : Liquid  
**Colour** : Colourless  
**Odo(u)r** : Slightly perfumed.  
**Odour Treshold** : No data available.  
**pH-value** : <1  
**Melting-/Freezing Point** : No data available.  
**Boiling point [°C]** : No data available.  
**Flash point [°C]** : > 100 °C  
**Evaporation rate** : No data available.  
**Flammability (solid, gas)** : No data available.  
**Vapour pressure, 20°C** : No data available.  
**Relative Density (20 °C, g/cm<sup>3</sup>)** : 1,260 g/cm<sup>3</sup>  
**Solubility in water** : Complete  
**Log P octanol / water at 20°C** : No data available.  
**Auto-ignition temperature [°C]** : No data available.  
**Decomposition temperature (°C)** : No data available.  
**Viscosity at 25°C [mPa.s]** : < 20 mPa.s  
**Explosive Properties** : No data available.  
**Explosion limits - lower [%]** : No data available.  
**Explosion limits - upper [%]** : No data available.  
**Oxidising properties** : No data available.

#### Jefo Ship supply

De Dissel 12 8332 JH Steenwijk NETHERLANDS  
telefoon 0031(0)6-83701219



# SAFETY DATA SHEET

Page : 5 of 9

Revised edition no : 0

Date : 23 / 11 / 2015

Supersedes : 0 / 0 / 0

## JEFO ROEST-KALK-CEMENTVERWIJDERAAR

**272372**

### SECTION 10 Stability and reactivity

#### 10.1. Reactivity

Reactivity : None under normal conditions.

#### 10.2. Chemical stability

Chemical stability : Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

Hazardous reactions : May react or be incompatible with bases.

#### 10.4. Conditions to avoid

Conditions to avoid : Extremely high or low temperatures.

#### 10.5. Incompatible materials

Materials to avoid : Strong bases.

#### 10.6. Hazardous decomposition products

Dangerous products of decomposition. : Incomplete combustion may form carbon monoxide.

### SECTION 11 Toxicological information

#### 11.1. Information on toxicological effects

: With the product as such no toxicological tests have been done. According to the criteria of (EC) 1272/2008 this product is classified as mentioned in section 2. Components that are toxic are mentioned in section 3.

Toxicity information : No known toxicological effects from this product.

- Inhalation : No data available.

- Dermal : Corrosive to the skin.

- Ocular : Risk of damage to eyes.

- Ingestion : Irritation of respiratory tract.

Sensitization : No data available.

Mutagenicity : No data available.

Carcinogenicity : No data available.

### SECTION 12 Ecological information

#### 12.1. Toxicity

Ecotoxicity : No data available.

#### 12.2. Persistence and degradability

: The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

With the product as such no ecological tests have been done. According to the criteria of (EC) 1272/2008 this product is classified concerning the environment as mentioned in section 2. Components that are dangerous to the environment are mentioned in section 3.

#### 12.3. Bioaccumulative potential

: No data available.

#### 12.4. Mobility in soil

#### Jefo Ship supply

De Dissel 12 8332 JH Steenwijk NETHERLANDS  
telefoon 0031(0)6-83701219



# SAFETY DATA SHEET

Page : 6 of 9

Revised edition no : 0

Date : 23 / 11 / 2015

Supersedes : 0 / 0 / 0

## JEFO ROEST-KALK-CEMENTVERWIJDERAAR

272372

### SECTION 12 Ecological information (Continued)

: Product is completely soluble in water.

#### 12.5. Results of PBT and vPvB assessment

: No PBT/vPvB substances present in a concentration of 0,1% or higher in this mixture.

#### 12.6. Other adverse effects

: No data available.

### SECTION 13 Disposal considerations

#### 13.1. Waste treatment methods

|                                |  |
|--------------------------------|--|
| <b>General</b>                 | : Dispose in a safe manner in accordance with local/national regulations.  |
| <b>Packing</b>                 | : Dispose of this material and its container at hazardous or special waste collection point.   |
| <b>Product</b>                 | : ERC8a; Wide dispersive indoor use of processing aids in open systems<br>ERC8d; Widespread use (outside) of processing aids in open systems.  |
| <b>Release</b>                 | : Avoid release to the environment.<br>Wastewater can be discharged by public wastewater sewer.<br>Comply with local regulations for disposal.   |
| <b>Disposal method</b>         | : Preferably recycling instead of landfill or incineration.  |
| <b>Industrial waste number</b> | : XXXXX - European Waste Code. This code is assigned based upon the most common uses and may not be representative of the contaminants resulting from actual use of the product. The producer of the waste must assess the actual process and the appropriate waste code. See Decision 2001/118/EC |

### SECTION 14 Transport information

**General information** : ADR 2015

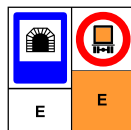
#### 14.1. UN number

**UN nr.** : 3264

#### 14.2. UN proper shipping name

**ADR/ADN/RID designation.** : UN3264 BIJTENDE ZURE ANORGANISCHE VLOEISTOF, N.E.G. (Fosforzuur, Ammoniumwaterstofdifluoride), 8, III, (E)

#### Tunnel restriction code (TRC)



: E : Passage forbidden through tunnels of category E.

#### -Limited Quantity

: 5 L

Combination packagings - Inner packaging : Maximum : 5 l.

Combination packagings - Package : Maximum 30 kg :

Inner packagings placed in shrink-wrapped or stretch-wrapped trays - Inner packaging  
Maximum contents :Inner packagings placed in shrink-wrapped or stretch-wrapped trays - Package Maximum 20  
kg :

#### Sea transport

#### Air transport

#### - ICAO/IATA

: Packaging instructions cargo : 856

Packaging instructions passenger: 852

#### 14.3. Transport hazard class(es)

: 8

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De Dissel 12 8332 JH Steenwijk NETHERLANDS  
telefoon 0031(0)6-83701219



# SAFETY DATA SHEET

Page : 7 of 9

Revised edition no : 0

Date : 23 / 11 / 2015

Supersedes : 0 / 0 / 0

## JEFO ROEST-KALK-CEMENTVERWIJDERAAR

272372

### SECTION 14 Transport information (Continued)

- Labelling ADR/ADN/RID



: 8: Corrosive substances

- IMO-IMDG code : Class 8

- IATA - Class or division : 8

#### 14.4. Packing group

Packing group : III

IMO Packing group : III

IATA Packing group : III

#### 14.5. Environmental hazards

: No ecological damage caused by this product.

- IMDG-Marine pollution : No.

#### 14.6. Special precautions for user

: Stop the engine.  
No open flames. No smoking.  
Mark roads and warns other road users.  
Keep public away from danger area.  
NOTIFY POLICE AND FIRE BRIGADE IMMEDIATELY.

- EMS-Nr : F-A S-B

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

: Not applicable

### SECTION 15 Regulatory information

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

Safety. : Ensure all national/local regulations are observed.

Ministry's list of carcinogens : None of the ingredients is listed.

SZW list of mutagens : None of the ingredients is listed.

NON-exhaustive list of reproductive toxins - Fertility : None of the ingredients is listed.

NON-exhaustive list of reproductive toxins - Development : None of the ingredients is listed.

NON-exhaustive list of reproductive toxins - Breastfeeding : None of the ingredients is listed.

Water Discharge Policy (ABM) : Little inconvenient for living organisms in the water.  
Sanitizing effort

Regulation (CE) No.648/2004 of 31 March 2004 on detergents. Annex VII.

Contains : < 5% : - Anionic surfactants  
> 30% : - Phosphates

#### 15.2. Chemical safety assessment

: No data available.

#### Jefo Ship supply

De Dissel 12 8332 JH Steenwijk NETHERLANDS  
telefoon 0031(0)6-83701219



# SAFETY DATA SHEET

Page : 8 of 9

Revised edition no : 0

Date : 23 / 11 / 2015

Supersedes : 0 / 0 / 0

## JEFO ROEST-KALK-CEMENTVERWIJDERAAR

272372

### SECTION 16 Other information

- Sources of key data used** : This data sheet was prepared in accordance with Regulation (EU) no. 453/2010 and CLP Regulation 1272/2008.
- List of relevant H phrases (Section 3)** : H226 - Flammable liquid and vapour  
H301 - Toxic if swallowed  
H302 - Harmful if swallowed  
H314 - Causes severe skin burns and eye damage  
H318 - Causes serious eye damage  
H332 - Harmful if inhaled
- Revision** : Major changes in the text compared to former version are indicated with \*.
- Print date** : 23 / 11 / 2015
- Recommended uses and restrictions** : See product label for detailed information.
- Abbreviations** : ADN: Accord européen relatif au transport international des marchandises Dangereuses par voies de Navigation intérieure  
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route  
CAS: Chemicals Abstracts Service  
DNEL: Derived No Effect Level  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
LC50: Lethal Concentration (50%)  
LD50: Lethal Dose (50%)  
MAC: Maximaal Aanvaarde Concentratie  
OEL: Occupational Exposure Limit.  
PC: Product Category.  
PNEL: Predicted No Effect Level  
ppm: parts per million.  
PROC: Process Category  
REACH: Registration, Evaluation en Autorisation of Chemicals.  
SU: Sector of Use.  
STEL: Short Term Exposure Limit.  
TLV: Treshold Limit Value.
- DISCLAIMER OF LIABILITY** : The data given here is based on current knowledge and experience. The purpose of this Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties.

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