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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 BRUINE/GELE AANSLAGVERWIJDERAAR</h2> | | <h3>272447</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 BRUINE/GELE AANSLAGVERWIJDERAAR
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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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 Flam. Liq. 3;H226 Acute Tox. 4 (Inhalation);H332 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 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>

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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.

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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/m³] : 1
Phosphoric acid : TGG 8 uur (nl) (mg/m³) : 1
Phosphoric acid : TGG 15 min (nl) (mg/m³) : 2
Formic acid : TLV^o-TWA [mg/m³] : 9.4
Formic acid : MAC [mg/m³] : 9
Formic acid : MAC [ppm] : 5
Formic acid : TGG 15 min (nl) (mg/m³) : 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/cm³) : 1,260 g/cm³
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.

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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

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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

| | |
|--------------------------------|--|
| General | : Dispose in a safe manner in accordance with local/national regulations. |
| Packing | : Dispose of this material and its container at hazardous or special waste collection point. |
| Product | : ERC8a; Wide dispersive indoor use of processing aids in open systems ERC8d; Widespread use (outside) of processing aids in open systems. |
| Release | : Avoid release to the environment. Wastewater can be discharged by public wastewater sewer. Comply with local regulations for disposal. |
| Disposal method | : Preferably recycling instead of landfill or incineration. |
| Industrial waste number | : 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

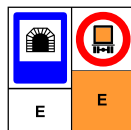
14.1. UN number

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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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.

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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.

End of document