

Defoamer Concentrate

Safety Data Sheet

According to Regulation (EC) No. 453/2010

Revision date: 21/01/2015

Date of issue: 09/01/2015

Version: 1.0

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

1.1. Product identifier

Product form : Mixture
Product Name : Defoamer Concentrate
Product code : C071-PT

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Anti-foam product.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Harris Research, Inc.
1530 North 1000 West
Logan, UT 84321 USA
(435)755-0099

www.chemdry.com

Chem-Dry France

Parc d'activites "Le Prieure"
RuePaulin Viry
37530 Poce-sur-Cisse
+33 761 8906 79

a.baba@chemdry-france.fr

Chem-Dry Luxembourg S.A

Rue De La Continentale
Zac Zaemer
Bascharage, L-4917
652 26 35 00 20
info@chemdry.lu

Portugal/Angola

Ambiclean-Limpeza De Alcatifas, LDA
Rua Samaora Machel N 3-D
Urbanizacoa Alto Da Eira
Sta Iria Da Azoia, 2695-395
351 21 953 00 33
info@chemdryportugal.com

UK/England/Scotland/Wales

Chem-Dry® Franchising Ltd.
Belprin Road
Beverly, East Yorkshire HU17 0LP
44 01482 678 645
e.info@chemdry.co.uk

1.4. Emergency telephone number

Emergency number : **Chemtrec (USA only):** (800) 424-9300
Chemtrec (outside USA): +1 703-527-3887

Europe: 112
Belgium: Poison Center (BE): +32 70 245 245
Denmark: Poison Control Hotline (DK): +45 82 12 12 12
France: ORFILA (FR): +01 45 42 59 59
Germany: Poison Center Berlin (DE): +49 030 30686 790
Poison Center Nord: +49 551 19240 (24h available English/German)
Ireland: National Posions Information Centre (IE): +353 1 8379964
Luxembourg: 112
Netherlands: National Poisons Information Center (NL): +31 30 274 88 88

Denmark, Norway, Sweden

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31(0)165-570 610
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Kellerhofstrasse 11
Elgg, 8353
(41)523643031
liz.prohaska@procamed.ch

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| | |
|------------------------|--|
| | (NB: this service is only available to health professionals) |
| Norway: | Posions Information (NO): +47 22 591300 |
| Portugal: | Poison Information Center (PT): +351 21 330 3284 |
| Sweden: | Poisons Information Center (SV): +46 8 33 12 31 |
| Switzerland: | Poison Center: Tel 145; +41 44 251 51 51 |
| United Kingdom: | NHS Direct (UK): +44 (0) 845 46 47; 111 |

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Classification according to Directive 67/548/EEC [DSD] or 1999/45/EC [DPD]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

2.3. Other hazards

Other hazards not contributing to the classification : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

SECTION 3: Composition/information on ingredients

3.1. Substance

Not applicable

3.2. Mixture

| Name | Product identifier | % | Classification according to Directive 67/548/EEC |
|--------------------------------------|---|--|--|
| Tetrasodium EDTA | (CAS No) 64-02-8 (EC no) 200-573-9 (EC index no) 607-428-00-2 | 0,25 - 0,35 | Xn; R22 Xi; R41 Xn; R20 Xn; R48/20/22 |
| Sulfuric acid | (CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8 | < 0,1 | C; R35 |
| Sodium hydroxide | (CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 | < 0,015 | C; R35 Xi; R41 |
| Nitrilotriacetic acid trisodium salt | (CAS No) 5064-31-3 (EC no) 225-768-6 (EC index no) 607-620-00-6 | 0,0078 | Xn; R22 Xi; R36 Carc.Cat.3; R40 |
| Name | Product identifier | Specific concentration limits | |
| Sulfuric acid | (CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8 | (5 =< C < 15) Xi;R36/38 (C >= 15) C;R35 | |
| Sodium hydroxide | (CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 | (0,5 =< C < 2) Xi;R36/38 (2 =< C < 5) C;R34 (C >= 5) C;R35 | |
| Nitrilotriacetic acid trisodium salt | (CAS No) 5064-31-3 (EC no) 225-768-6 (EC index no) 607-620-00-6 | (C >= 5) R40 | |

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| Name | Product identifier | % | Classification according to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------------------------|---|---|---|
| Tetrasodium EDTA | (CAS No) 64-02-8 (EC no) 200-573-9 (EC index no) 607-428-00-2 | 0,25 - 0,35 | Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 STOT RE 2, H373 |
| Sulfuric acid | (CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8 | < 0,1 | Skin Corr. 1A, H314 |
| Sodium hydroxide | (CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 | < 0,015 | Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318 |
| Nitrilotriacetic acid trisodium salt | (CAS No) 5064-31-3 (EC no) 225-768-6 (EC index no) 607-620-00-6 | 0,0078 | Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319 Carc. 2, H351 |
| Name | Product identifier | Specific concentration limits | |
| Sulfuric acid | (CAS No) 7664-93-9 (EC no) 231-639-5 (EC index no) 016-020-00-8 | (5 =< C < 15) Eye Irrit. 2, H319 (5 =< C < 15) Skin Irrit. 2, H315 (C >= 15) Skin Corr. 1A, H314 | |
| Sodium hydroxide | (CAS No) 1310-73-2 (EC no) 215-185-5 (EC index no) 011-002-00-6 | (0,5 =< C < 2) Eye Irrit. 2, H319 (0,5 =< C < 2) Skin Irrit. 2, H315 (2 =< C < 5) Skin Corr. 1B, H314 (C >= 5) Skin Corr. 1A, H314 | |
| Nitrilotriacetic acid trisodium salt | (CAS No) 5064-31-3 (EC no) 225-768-6 (EC index no) 607-620-00-6 | (C >= 5) Carc. 2, H351 | |

Full text of R- and H-phrases: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label if possible).
- First-aid measures after inhalation : Remove to fresh air and keep at rest in a position comfortable for breathing. If you feel unwell, seek medical advice.
- First-aid measures after skin contact : Remove contaminated clothing. Rinse affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.
- First-aid measures after eye contact : Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if redness, pain, or irritation occurs.
- First-aid measures after ingestion : Do not induce vomiting. Rinse mouth. Seek medical attention if you feel unwell.

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

- Symptoms/injuries : Not expected to present a significant hazard under anticipated conditions of normal use.
- Symptoms/injuries after inhalation : May cause respiratory irritation.
- Symptoms/injuries after skin contact : May cause skin irritation.
- Symptoms/injuries after eye contact : May cause eye irritation.
- Symptoms/injuries after ingestion : Ingestion is likely to be harmful or have adverse effects.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

SECTION 5: Firefighting measures

5.1. Extinguishing media

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

5.2. Special hazards arising from the substance or mixture

- Fire hazard : Not considered flammable but may burn at high temperatures.

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| | |
|--|---|
| Explosion hazard | : Product is not explosive. |
| Reactivity | : Hazardous reactions will not occur under normal conditions. |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO ₂). Silicon oxides. Formaldehyde. Nitrogen oxides Sodium oxides. Formaldehyde is a potential carcinogen and can act as a skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation. |

5.3. Advice for firefighters

| | |
|--------------------------------|--|
| Precautionary measures fire | : Exercise caution when fighting any chemical fire. Under fire conditions, hazardous fumes will be present. |
| Firefighting instructions | : Do not breathe fumes from fires or vapours from decomposition. Do not allow run-off from fire fighting to enter drains or water sources. |
| Protection during firefighting | : Do not enter fire area without proper protective equipment, including respiratory protection. |
| Other information | : Under fire conditions, will release toxic fumes and formaldehyde vapours |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|---|
| General measures | : Caution: this product can cause the floor to become slippery. Handle in accordance with good industrial hygiene and safety practice. Avoid breathing (vapour, mist, spray). |
|------------------|---|

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Protective equipment | : Use appropriate personal protection equipment (PPE). |
| Emergency procedures | : Evacuate unnecessary personnel. |

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Equip cleanup crew with proper protection. |
| Emergency procedures | : Stop leak if safe to do so. Ventilate area. |

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

| | |
|-------------------------|---|
| For containment | : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. |
| Methods for cleaning up | : Collect spillage immediately and dispose of waste safely. Spills should be contained with mechanical barriers. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. |

6.4. Reference to other sections

See heading 8, Exposure Controls and Personal Protection. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

| | |
|-------------------------------|---|
| Precautions for safe handling | : Avoid contact with skin, eyes, and clothing. Avoid breathing vapour, mist, or spray. Use appropriate personal protection equipment (PPE). |
|-------------------------------|---|

| | |
|------------------|---|
| Hygiene measures | : Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking, or smoking and when leaving work. |
|------------------|---|

7.2. Conditions for safe storage, including any incompatibilities

| | |
|-----------------------|---|
| Technical measures | : Ensure adequate ventilation. Comply with applicable regulations. |
| Storage conditions | : Store in a dry, cool, and well-ventilated place. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures, and incompatible materials. |
| Incompatible products | : Strong acids. Strong bases. Strong oxidizers. |

7.3. Specific end use(s)

Anti-foam product.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Sulfuric acid (7664-93-9) | | |
|---------------------------|--------------------------------|---|
| EU | IOELV TWA (mg/m ³) | 0,05 mg/m ³ (taking into account potential limitations and interferences which take place in the presence of other Sulphur compounds-mist) |

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| Sulfuric acid (7664-93-9) | | |
|----------------------------------|---|---|
| Austria | MAK (mg/m ³) | 0,1 mg/m ³ (corresponds to 0.05 mg/m ³ Thoracic-inhalable fraction) |
| Austria | MAK Short time value (mg/m ³) | 0,2 mg/m ³ (inhalable fraction) |
| Belgium | Limit value (mg/m ³) | 0,2 mg/m ³ |
| Bulgaria | OEL TWA (mg/m ³) | 0,05 mg/m ³ (When choosing a suitable method for monitoring exposure should take into account potential constraints and interactions that may occur in the presence of other sulfur compounds-respirable fraction) |
| Croatia | GVI (granična vrijednost izloženosti) (mg/m ³) | 0,05 mg/m ³ |
| Cyprus | OEL TWA (mg/m ³) | 0,05 mg/m ³ (vapor) |
| France | VLE (mg/m ³) | 3 mg/m ³ |
| France | VME (mg/m ³) | 0,05 mg/m ³ |
| Germany | TRGS 900 Occupational exposure limit value (mg/m ³) | 0,1 mg/m ³ (The risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction) |
| Gibraltar | OEL TWA (mg/m ³) | 0,05 mg/m ³ (when selecting an appropriate exposure monitoring method, account should be taken of potential limitations and interferences that may arise in the presence of other sulphur compounds-thoracic fraction) |
| Greece | OEL TWA (mg/m ³) | 0,05 mg/m ³ (mist) |
| USA ACGIH | ACGIH TWA (mg/m ³) | 0,2 mg/m ³ (thoracic fraction) |
| Italy | OEL TWA (mg/m ³) | 0,05 mg/m ³ (When choosing a suitable method for monitoring exposure should take into account potential constraints and interactions that may occur in the presence of other sulfur compounds, respirable fraction-thoracic fraction, mist) |
| Latvia | OEL TWA (mg/m ³) | 0,05 mg/m ³ (choosing an appropriate exposure monitoring method, there should be taken into account the possible limitations and the impact that may result from the presence of other sulfur components-fog, which is defined as the thoracic fraction) |
| Spain | VLA-ED (mg/m ³) | 0,05 mg/m ³ (indicative limit value; it is prohibited the partial or complete commercialization or use of this substance as a phytosanitary or biocide compound; limitations and interferences can arise from other Sulfur compounds-mist) |
| Switzerland | VLE (mg/m ³) | 0,1 mg/m ³ (inhalable) |
| Switzerland | VME (mg/m ³) | 0,1 mg/m ³ (inhalable) |
| Netherlands | Grenswaarde TGG 8H (mg/m ³) | 0,05 mg/m ³ (defined as thoracic fraction-mist) |
| United Kingdom | WEL TWA (mg/m ³) | 0,05 mg/m ³ (mist) |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 1 mg/m ³ 0,05 mg/m ³ (concentrated-mist) |
| Denmark | Grænseværdie (langvarig) (mg/m ³) | 0,05 mg/m ³ (thoracic fraction-mist) |
| Estonia | OEL TWA (mg/m ³) | 1 mg/m ³ (fume) |
| Finland | HTP-arvo (8h) (mg/m ³) | 0,05 mg/m ³ |
| Finland | HTP-arvo (15 min) | 0,1 mg/m ³ |
| Hungary | AK-érték | 0,05 mg/m ³ |

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| Sulfuric acid (7664-93-9) | | |
|-------------------------------------|--|---|
| Ireland | OEL (8 hours ref) (ppm) | 0,05 ppm |
| Ireland | OEL (15 min ref) (ppm) | 0,15 ppm (calculated) |
| Lithuania | IPRV (mg/m ³) | 0,05 mg/m ³ (vapor) |
| Lithuania | TPRV (mg/m ³) | 3 mg/m ³ (vapor) |
| Luxembourg | OEL TWA (mg/m ³) | 0,05 mg/m ³ |
| Malta | OEL TWA (mg/m ³) | 0,05 mg/m ³ (mist) |
| Norway | Gjennomsnittsverdier (AN) (mg/m ³) | 0,1 mg/m ³ (inhalable fraction) |
| Norway | Gjennomsnittsverdier (Korttidsverdi) (mg/m ³) | 0,3 mg/m ³ (inhalable fraction) |
| Poland | NDS (mg/m ³) | 1 mg/m ³ (mist) 0,05 mg/m ³ (inhalable fraction) |
| Poland | NDSch (mg/m ³) | 3 mg/m ³ (mist) |
| Romania | OEL TWA (mg/m ³) | 0,05 mg/m ³ |
| Slovakia | NPHV (priemerná) (mg/m ³) | 0,1 mg/m ³ |
| Slovenia | OEL TWA (mg/m ³) | 0,05 mg/m ³ (inhalable fraction, fog) |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 0,1 mg/m ³ |
| Sweden | korttidsvärde (KTV) (mg/m ³) | 0,2 mg/m ³ |
| Portugal | OEL TWA (mg/m ³) | 0,05 mg/m ³ (thoracic fraction-mist) |
| Portugal | OEL chemical category (PT) | A2 - Suspected Human Carcinogen present in strong inorganic acid mixtures |
| Sodium hydroxide (1310-73-2) | | |
| Austria | MAK (mg/m ³) | 2 mg/m ³ (inhalable fraction) |
| Austria | MAK Short time value (mg/m ³) | 4 mg/m ³ (inhalable fraction) |
| Bulgaria | OEL TWA (mg/m ³) | 2,0 mg/m ³ (aerosol) |
| Croatia | KGVI (kratkotrajna granična vrijednost izloženosti) (mg/m ³) | 2 mg/m ³ |
| France | VME (mg/m ³) | 2 mg/m ³ |
| Greece | OEL TWA (mg/m ³) | 2 mg/m ³ |
| Greece | OEL STEL (mg/m ³) | 2 mg/m ³ |
| USA ACGIH | ACGIH Ceiling (mg/m ³) | 2 mg/m ³ |
| Latvia | OEL TWA (mg/m ³) | 0,5 mg/m ³ |
| Spain | VLA-EC (mg/m ³) | 2 mg/m ³ |
| Switzerland | VLE (mg/m ³) | 2 mg/m ³ (inhalable) |
| Switzerland | VME (mg/m ³) | 2 mg/m ³ (inhalable) |
| United Kingdom | WEL STEL (mg/m ³) | 2 mg/m ³ |
| Czech Republic | Expoziční limity (PEL) (mg/m ³) | 1 mg/m ³ |
| Estonia | OEL TWA (mg/m ³) | 1 mg/m ³ |
| Estonia | OEL Ceiling (mg/m ³) | 2 mg/m ³ |
| Finland | HTP-arvo (15 min) | 2 mg/m ³ |
| Hungary | AK-érték | 2 mg/m ³ |
| Hungary | CK-érték | 2 mg/m ³ |
| Ireland | OEL (15 min ref) (mg/m ³) | 2 mg/m ³ |
| Lithuania | NRV (mg/m ³) | 2 mg/m ³ |
| Norway | Gjennomsnittsverdier (Takverdi) (mg/m ³) | 2 mg/m ³ |
| Poland | NDS (mg/m ³) | 0,5 mg/m ³ |
| Poland | NDSch (mg/m ³) | 1 mg/m ³ |

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| Sodium hydroxide (1310-73-2) | | |
|------------------------------|---|--|
| Slovakia | NPHV (priemerná) (mg/m ³) | 2 mg/m ³ |
| Slovenia | OEL TWA (mg/m ³) | 2 mg/m ³ (inhalable fraction) |
| Slovenia | OEL STEL (mg/m ³) | 2 mg/m ³ (inhalable fraction) |
| Sweden | nivågränsvärde (NVG) (mg/m ³) | 1 mg/m ³ (inhalable dust) |
| Sweden | takgränsvärde (TGV) (mg/m ³) | 2 mg/m ³ (inhalable dust) |
| Portugal | OEL - Ceilings (mg/m ³) | 2 mg/m ³ |

8.2. Exposure controls

Appropriate engineering controls

: Ensure adequate ventilation. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure all national/local regulations are observed.

Personal protective equipment

: Protective goggles. Gloves. Protective clothing.



Materials for protective clothing

: Chemically resistant materials and fabrics.

Hand protection

: Wear chemically resistant protective gloves.

Eye protection

: Chemical safety goggles.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn.

Consumer exposure controls

: Do not eat, drink, or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|--|--|
| Physical state | : Liquid |
| Colour | : White |
| Odour | : Slight |
| Odour threshold | : No data available |
| pH | : 7 - 8 |
| Evaporation rate | : < 1 |
| Freezing point | : 0 °C (32 °F) |
| Boiling point | : 100 °C (212 °F) |
| Flash point | : No data available |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : No data available |
| Vapour pressure | : No data available |
| Relative vapour density at 20 °C | : No data available |
| Relative density | : 0,982 (Water = 1) |
| Density | : 982,6 kg/m ³ (Bulk Density) |
| Solubility | : Complete |
| Partition coefficient: n-octanol/water | : No data available |
| Viscosity | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits | : No data available |

9.2. Other information

VOC content : < 1 %

SECTION 10: Stability and reactivity

10.1. Reactivity

Hazardous reactions are not expected to occur under normal conditions.

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10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures. Incompatible materials.

10.5. Incompatible materials

Strong acids. Strong bases. Strong oxidizers.

10.6. Hazardous decomposition products

Under fire conditions: Carbon oxides (CO, CO₂). Silicon oxides. Formaldehyde vapours. Nitrogen oxides. Sodium oxides.

Formaldehyde is potential carcinogen and can act as a potential skin and respiratory sensitizer. Formaldehyde can also cause respiratory and eye irritation.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

Sulfuric acid (7664-93-9)

| | |
|----------------------------|--|
| LD50 oral rat | 2140 mg/kg |
| LC50 inhalation rat (mg/l) | 510 mg/m ³ (Exposure time: 2 h) |

Tetrasodium EDTA (64-02-8)

| | |
|---------------------|--------------|
| LD50 oral rat | 1780 mg/kg |
| ATE CLP (dust,mist) | 1,50 mg/l/4h |

Nitrilotriacetic acid trisodium salt (5064-31-3)

| | |
|----------------------------|-------------|
| LD50 oral rat | 920 mg/kg |
| LC50 inhalation rat (mg/l) | > 5 mg/l/4h |

| | |
|-----------------------------------|-------------------------------|
| Skin corrosion/irritation | : Not classified pH: 7 - 8 |
| Serious eye damage/irritation | : Not classified pH: 7 - 8 |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : Not classified |

Sulfuric acid (7664-93-9)

| | |
|------------|---|
| IARC group | 1 |
|------------|---|

Nitrilotriacetic acid trisodium salt (5064-31-3)

| | |
|------------|----|
| IARC group | 2B |
|------------|----|

| | |
|--|--|
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated exposure) | : Not classified |
| Aspiration hazard | : Not classified |
| Symptoms/Injuries After Inhalation | : May cause respiratory irritation. |
| Symptoms/Injuries After Skin Contact | : May cause skin irritation. |
| Symptoms/Injuries After Eye Contact | : May cause eye irritation. |
| Symptoms/Injuries After Ingestion | : Ingestion is likely to be harmful or have adverse effects. |

SECTION 12: Ecological information

12.1. Toxicity

Sulfuric acid (7664-93-9)

| | |
|---------------|--|
| LC50 fishes 1 | 500 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static]) |
| LC50 fish 2 | 42 mg/l (Exposure time: 96 h - Species: Gambusia affinis [static]) |

Tetrasodium EDTA (64-02-8)

| | |
|---------------|--|
| LC50 fishes 1 | 486 (Exposure time: 96h - Species: Lepomis macrochirus) |
|---------------|--|

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| Tetrasodium EDTA (64-02-8) | |
|---|---|
| EC50 Daphnia 1 | 625 mg/l (Exposure time: 24 h - Species: Daphnia magna) |
| ErC50 (algae) | 3 mg/l (exposure time: 96 h - Species: Green Algae) |
| Sodium hydroxide (1310-73-2) | |
| LC50 fishes 1 | 45,4 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |
| EC50 Daphnia 1 | 40 mg/l |
| Nitrilotriacetic acid trisodium salt (5064-31-3) | |
| LC50 fishes 1 | 93 - 170 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| EC50 Daphnia 1 | 560 - 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna) |
| LC50 fish 2 | 175 - 225 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static]) |

12.2. Persistence and degradability

| Defoamer Concentrate | |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

12.3. Bioaccumulative potential

| Defoamer Concentrate | |
|-----------------------------|------------------|
| Bioaccumulative potential | Not established. |

| Sulfuric acid (7664-93-9) | |
|----------------------------------|----------------------|
| BCF fish 1 | (no bioaccumulation) |

| Tetrasodium EDTA (64-02-8) | |
|-----------------------------------|-------------------|
| Log Pow | 5,01 (calculated) |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not empty into drains; dispose of this material and its container in a safe way.

Waste disposal recommendations : Dispose of waste material in accordance with all local, regional, national, and international regulations.

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

| ADR | IMDG | IATA | ADN | RID |
|------------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| 14.1. UN number | | | | |
| Not regulated for transport | | | | |
| 14.2. UN proper shipping name | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.3. Transport hazard class(es) | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.4. Packing group | | | | |
| Not applicable | Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |

14.6. Special precautions for user

No additional information available

Defoamer Concentrate

Safety Data Sheet

According to Regulation (EC) No. 453/2010

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

15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

| | |
|--|---------------|
| 3. Liquid substances or mixtures which are regarded as dangerous in accordance with Directive 1999/45/EC or are fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008 | Sulfuric acid |
| 3.b. Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | Sulfuric acid |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Sulfuric acid (7664-93-9)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Tetrasodium EDTA (64-02-8)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Sodium hydroxide (1310-73-2)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

Nitrilotriacetic acid trisodium salt (5064-31-3)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

VOC content : < 1 %

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Revision date : 21/01/2015

Data sources : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Full text of R-, H- and EUH-phrases:

| | |
|-------------------------------------|--|
| Acute Tox. 4 (Inhalation:dust,mist) | Acute toxicity (inhalation:dust,mist) Category 4 |
| Acute Tox. 4 (Oral) | Acute toxicity (oral), Category 4 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2 |
| Met. Corr. 1 | Corrosive to metals, Category 1 |
| Skin Corr. 1A | Skin corrosion/irritation, Category 1A |
| STOT RE 2 | Specific target organ toxicity — Repeated exposure, Category 2 |
| 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 |

Defoamer Concentrate

Safety Data Sheet

According to Regulation (EC) No. 453/2010

| | |
|-----------|---|
| H332 | Harmful if inhaled |
| H351 | Suspected of causing cancer |
| H373 | May cause damage to organs through prolonged or repeated exposure |
| R20 | Harmful by inhalation |
| R22 | Harmful if swallowed |
| R35 | Causes severe burns |
| R36 | Irritating to eyes |
| R40 | Limited evidence of a carcinogenic effect |
| R41 | Risk of serious damage to eyes |
| R48/20/22 | Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed |
| C | Corrosive |
| Xi | Irritant |
| Xn | Harmful |

Harris Research Inc EU GHS SDS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.