# neodisher IS

Version: 2 / GB | Replaces Version: 1 / GB | Date revised: 01.08.2017 | Print date: 14.08.17

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

### 1.1. Product identifier

neodisher IS

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

### Use of the substance/preparation

Washing and cleaning products (including solvent based products)

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

**Address:**

Chemische Fabrik Dr. Weigert GmbH & Co. KG
Mühlenhagen 85
D-20539 Hamburg
Telephone no. +49 40 789 60 0
Fax no. +49 40 789 60 120
www.drweigert.com

**E-mail address of person responsible for this SDS:**
sida@drweigert.de

### 1.4. Emergency telephone number

GBK/ Infotrac: (USA domestic) 1 800 535 5053 or international +1 352 323 3500

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification (Regulation (EC) No. 1272/2008)**

Classification (Regulation (EC) No. 1272/2008)

| | | |
|---|---|---|
| Met. Corr. 1 | H290 | |
| Skin Corr. 1B | H314 | |
| Eye Dam. 1 | H318 | |
| Acute Tox. 3 | H301 | Route of exposure: oral |

### 2.2. Label elements

**Labelling according to regulation (EC) No 1272/2008**

**Hazard pictograms**

**Signal word**

Danger

**Hazard statements**

| | |
|---|---|
| H290 | May be corrosive to metals. |
| H314 | Causes severe skin burns and eye damage. |
| H301 | Toxic if swallowed. |

**Precautionary statements**

| | |
|---|---|
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray. |

| | |
|---|---|
| P280 | Wear protective gloves/protective clothing/eye protection/face protection. |
| P303+P361+P353 | IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. |
| 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. |
| | Dispose only when container is empty and closed. For disposal of product residues, refer to Safety Data Sheet. |

**Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)**

| | |
|---|---|
| contains | ammonium bifluoride; cumenesulphonic acid |
| EUH208 Contains | 1,3-Diethyl-2-thiourea, May produce an allergic reaction. |

## 2.3. Other hazards

No special hazards have to be mentioned.

## SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

### Hazardous ingredients

**cumenesulphonic acid**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 16066-35-6 | | | | |
| EINECS no. | 240-210-1 | | | | |
| Registration no. | 01-2119538809-24 | | | | |
| Concentration | >= | 1 | < | 10 | % |

Classification (Regulation (EC) No. 1272/2008)

| | | |
|---|---|---|
| Skin Corr. 1B | H314 | |
| Eye Dam. 1 | H318 | |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | |
|---|---|---|
| Skin Irrit. 2 | H315 | >= 1 <= 20 % |
| Eye Dam. 1 | H318 | >= 1 <= 20 % |

**fatty alcohols, alkoxylated**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 68439-51-0 | | | | |
| Concentration | >= | 1 | < | 10 | % |

Classification (Regulation (EC) No. 1272/2008)

| | | |
|---|---|---|
| Aquatic Chronic 3 | H412 | |

**1,3-Diethyl-2-thiourea**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 105-55-5 | | | | |
| EINECS no. | 203-308-5 | | | | |
| Concentration | | | < | 1 | % |

Classification (Regulation (EC) No. 1272/2008)

| | | |
|---|---|---|
| Skin Sens. 1 | H317 | |
| Carc. 2 | H351 | |
| Acute Tox. 4 | H302 | Route of exposure: oral |
| Eye Dam. 1 | H318 | |
| Acute Tox. 4 | H312 | Route of exposure: dermal |

**fatty alcohols, ethoxylated**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 68213-23-0 | | | | |
| Concentration | | | < | 1 | % |

Classification (Regulation (EC) No. 1272/2008)

| | | |
|---|---|---|
| Aquatic Acute 1 | H400 | |
| Eye Dam. 1 | H318 | |

**ammonium bifluoride**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 1341-49-7 | | | | |
| EINECS no. | 215-676-4 | | | | |
| Registration no. | 01-2119489180-38 | | | | |
| Concentration | >= | 10 | < | 25 | % |

Classification (Regulation (EC) No. 1272/2008)

| | |
|---|---|
| Acute Tox. 3 | H301 |
| Skin Corr. 1B | H314 |

Concentration limits (Regulation (EC) No. 1272/2008)

| | | |
|---|---|---|
| Skin Irrit. 2 | H315 | >= 0,1 < 1 |
| Eye Irrit. 2 | H319 | >= 0,1 < 1 |
| Skin Corr. 1B | H314 | >= 1 |

**citric acid, anhydrous**

| | | | | | |
|---|---|---|---|---|---|
| CAS No. | 77-92-9 | | | | |
| EINECS no. | 201-069-1 | | | | |
| Registration no. | 01-2119457026-42 | | | | |
| Concentration | >= | 10 | < | 25 | % |

Classification (Regulation (EC) No. 1272/2008)

| | |
|---|---|
| Eye Irrit. 2 | H319 |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General information

Remove contaminated, soaked clothing immediately and dispose of safely. Adhere to personal protective measures when giving first aid. Clean body thoroughly (bath, shower). In any case show the physician the Safety Data Sheet.

#### After inhalation

Ensure supply of fresh air. Remove affected person from danger area. Seek medical advice immediately.

#### After skin contact

In the event of contact with the skin immediately apply Ca gluconate solution or rub in Ca gluconate gel.

#### After eye contact

Separate eyelids, wash the eyes thoroughly with water (15 min.). Take medical treatment.

#### After ingestion

Call in a physician immediately and show him the Safety Data Sheet. Rinse mouth thoroughly with water. Let plenty of water be drunk in small gulps. Do not induce vomiting.

#### Adhere to personal protective measures when giving first aid

First aider: Pay attention to self-protection!

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

Until now no symptoms known so far.

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

#### Hints for the physician / treatment

Keep under medical supervision for at least 48 hours.

#### Hints for the physician / hazards

In the case of swallowing with subsequent vomiting, aspiration of the lungs can occur which can lead to chemical pneumonia or asphyxiation.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

Dry powder, Foam, Water spray jet

#### Non suitable extinguishing media

Full water jet

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

In case of combustion evolution of dangerous gases possible.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighting

Use self-contained breathing apparatus.

#### Other information

Collect contaminated fire-fighting water separately, must not be discharged into the drains. Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

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

Use breathing apparatus if exposed to vapours/dust/aerosol. Avoid contact with skin, eyes and clothing. Refer to protective measures listed in Sections 7 and 8.

### 6.2. Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers). Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil. Retain and dispose of contaminated wash water. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

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

Pick up with absorbent material. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Containers in which spilt substance has been collected must be adequately labelled. Dispose of absorbed material in accordance with the regulations.

### 6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid formation of aerosols. Perform filling operations only at stations with exhaust ventilation facilities. Provide suitable exhaust ventilation at the processing machines. If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn. Keep container tightly closed.

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

#### Recommended storage temperature

| | | | | | |
|---|---|---|---|---|---|
| Value | > | -15 | < | 30 | °C |

#### Requirements for storage rooms and vessels

Keep only in the original container. Do not use glass containers. Storage rooms must be properly ventilated. Provide acid-resistant floor.

#### Hints on storage assembly

Do not store together with foodstuffs.

#### Storage class according to TRGS 510

| | | |
|---|---|---|
| Storage class according to TRGS 510 | 6.1B | Non-combustible substances of acute toxicity, categories 1 and 2 / very toxic hazardous substances |

### Further information on storage conditions

Keep under lock and key or accessible only to specialists or people who are authorized.

## 7.3. Specific end use(s)

no data

# SECTION 8: Exposure controls/personal protection

## 8.1. Control parameters

### Exposure limit values

**ammonium bifluoride**

| | | |
|---|---|---|
| List | EH40 | |
| Type | WEL | |
| Value | 2.5 | mg/m³ |
| Status: 2011 | | |

**hydrogen fluoride**

| | | | | |
|---|---|---|---|---|
| List | EH40 | | | |
| Type | WEL | | | |
| Value | 1.5 | mg/m³ | 1.8 | ppm(V) |
| Short term exposure limit | 2.5 | mg/m³ | 3 | ppm(V) |
| Status: 2011 | | | | |

### Other information

There are not known any further control parameters.

## 8.2. Exposure controls

### General protective and hygiene measures

Hold emergency shower available. Hold eye wash fountain available. Do not inhale gases/vapours/aerosols. Avoid contact with skin and eyes. Do not eat, drink or smoke during work time. Storage of foodstuffs in work rooms is forbidden. Wash hands before breaks and after work. Clean skin thoroughly after work; apply skin cream.

### Respiratory protection

If workplace limits are exceeded, a respiratory protection approved for this particular job must be worn.

### Hand protection

Chemical resistant gloves (EN 374)

| | | | |
|---|---|---|---|
| Use | Permanent hand contact | | |
| Appropriate Material | neoprene | | |
| Material thickness | >= | 0,65 | mm |
| Breakthrough time | > | 480 | |
| Appropriate Material | nitrile | | |
| Material thickness | >= | 0,4 | mm |
| Breakthrough time | > | 480 | min |
| Appropriate Material | butyl | | |
| Material thickness | >= | 0,7 | mm |
| Breakthrough time | > | 480 | min |
| Use | Short-term hand contact | | |
| Appropriate Material | nitrile | | |
| Material thickness | >= | 0,11 | mm |

### Eye protection

Safety glasses with side protection shield (EN 166)

### Body protection

Clothing as usual in the chemical industry. Protective shoes

## SECTION 9: Physical and chemical properties

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

**Form** liquid

**Colour** light brown

**Odour** characteristic

**Odour threshold**

Remarks not determined

**pH value**

| | | | |
|---|---|---|---|
| Value | appr. | 3 | |
| Concentration/H2O | | 2 | % |
| Temperature | | 20 | °C |

**Melting point**

Remarks not determined

**Freezing point**

Remarks not determined

**Initial boiling point and boiling range**

Remarks not determined

**Flash point**

Remarks Not applicable

**Evaporation rate (ether = 1) :**

Remarks not determined

**Flammability (solid, gas)**

evaluation not determined

**Upper/lower flammability or explosive limits**

Remarks not determined

**Vapour pressure**

Remarks not determined

**Vapour density**

Remarks not determined

**Density**

| | | | |
|---|---|---|---|
| Value | 1,19 | | g/cm³ |
| Temperature | 20 | °C | |

**Solubility in water**

Remarks miscible in all proportions

**Solubility(ies)**

Remarks not determined

**Partition coefficient: n-octanol/water**

Remarks not determined

**Ignition temperature**

Remarks not determined

**Decomposition temperature**

Remarks not determined

**Viscosity**

Remarks not determined

### Explosive properties

| | |
|---|---|
| evaluation | not determined |

### Oxidising properties

| | |
|---|---|
| evaluation | None known |

## 9.2. Other information

### Other information

None known

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

No hazardous reactions when stored and handled according to prescribed instructions.

## 10.2. Chemical stability

No hazardous reactions known.

## 10.3. Possibility of hazardous reactions

No hazardous reactions known.

## 10.4. Conditions to avoid

No hazardous reactions known.

### Decomposition temperature

| | |
|---|---|
| Remarks | not determined |

## 10.5. Incompatible materials

Reactions with alkalies. Reactions with various metals.

## 10.6. Hazardous decomposition products

Hazardous determin decomposition products: Hydrogen fluoride

## SECTION 11: Toxicological information

## 11.1. Information on toxicological effects

### Acute oral toxicity

| | | | | | |
|---|---|---|---|---|---|
| Species | rat | | | | |
| LD50 | | 50 | to | 300 | mg/kg |
| Method | calculated value (Regulation (EC) No. 1272/2008) | | | | |

### Acute oral toxicity (Components)

**ammonium bifluoride**

| | | | | | |
|---|---|---|---|---|---|
| Species | rat | | | | |
| LD50 | | 60 | to | 130 | mg/kg |

**citric acid, anhydrous**

| | | | | | |
|---|---|---|---|---|---|
| Species | rat | | | | |
| LD50 | | 11700 | | | mg/kg |

**citric acid, anhydrous**

| | | | | | |
|---|---|---|---|---|---|
| Species | mouse | | | | |
| LD50 | | 5040 | | | mg/kg |

### Acute dermal toxicity

| | |
|---|---|
| Remarks | Based on available data, the classification criteria are not met. |

### Acute inhalational toxicity

| | |
|---|---|
| Remarks | Based on available data, the classification criteria are not met. |

### Skin corrosion/irritation

evaluation: strongly corrosive

**Serious eye damage/irritation**

evaluation: strongly corrosive

**Sensitization**

Remarks: Based on available data, the classification criteria are not met.

**Subacute, subchronic, chronic toxicity**

Remarks: Based on available data, the classification criteria are not met.

**Mutagenicity**

Remarks: Based on available data, the classification criteria are not met.

**Reproductive toxicity**

Remarks: Based on available data, the classification criteria are not met.

**Carcinogenicity**

Remarks: Based on available data, the classification criteria are not met.

**Specific Target Organ Toxicity (STOT)**

Remarks: not determined

**Aspiration hazard**

No special hazards have to be mentioned.

**Experience in practice**

Inhalation may lead to irritation of the respiratory tract.

**Other information**

There is no data available on the product apart from the information given in this subsection.

## SECTION 12: Ecological information

### 12.1. Toxicity

**General information**

not determined

**Fish toxicity (Components)**

**ammonium bifluoride**

| | | | | |
|---|---|---|---|---|
| Species | Salmo gairdneri | | | |
| LC50 | 422 | | | mg/l |
| Duration of exposure | 96 | h | | |

**citric acid, anhydrous**

| | | | | |
|---|---|---|---|---|
| Species | golden orfe (Leuciscus idus) | | | |
| LC50 | 440 | to | 706 | mg/l |
| Duration of exposure | 96 | h | | |

**Daphnia toxicity (Components)**

**citric acid, anhydrous**

| | | | |
|---|---|---|---|
| Species | Daphnia magna | | |
| EC50 | 120 | | mg/l |
| Duration of exposure | 72 | h | |

### 12.2. Persistence and degradability

**General information**

not determined

### 12.3. Bioaccumulative potential

**General information**

not determined

### Partition coefficient: n-octanol/water

Remarks not determined

## 12.4. Mobility in soil

### General information

not determined

## 12.5. Results of PBT and vPvB assessment

### Evaluation of persistance and bioaccumulation potential

The product contains no PBT or vPvB substances.

## 12.6. Other adverse effects

### General information

not determined

### General information / ecology

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Do not allow to enter soil, waterways or waste water canal.

# SECTION 13: Disposal considerations

## 13.1. Waste treatment methods

### Disposal recommendations for the product

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

### Disposal recommendations for packaging

Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

# SECTION 14: Transport information

| | Land transport ADR/RID | Marine transport IMDG/GGVSee | Air transport ICAO/IATA |
|---|---|---|---|
| **14.1. UN number** | 2817 | 2817 | 2817 |
| **14.2. UN proper shipping name** | AMMONIUM HYDROGENDIFLUORIDE SOLUTION | AMMONIUM HYDROGENDIFLUORIDE SOLUTION | AMMONIUM HYDROGENDIFLUORIDE SOLUTION |
| **14.3. Transport hazard class(es)** | 8 | 8 | 8 |
| Subsidiary risk | 6.1 | 6.1 | 6.1 |
| Label |  |  |  |
| **14.4. Packing group** | II | II | II |
| Limited Quantity | 1 l | | |

| | | | |
|---|---|---|---|
| Transport category | 2 | | |
| **14.5. Environmental hazards** | | no | |
| Tunnel restriction code | E | | |
| IMDG-Code segregation group | | 1 Acids | |

### Information for all modes of transport

**14.6. Special precautions for user**

See Sections 6 to 8

### Other information

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

Not applicable

## SECTION 15: Regulatory information

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

**Major-accident categories acc. 96/82/EC**

| | | | | | | |
|---|---|---|---|---|---|---|
| Category | 2 | Toxic | 50.000 | kg | 200.000 | kg |

**Ingredients (Regulation (EC) No 648/2004)**

**Further ingredients**

amyl cinnamal

**Water Hazard Class (Germany)**

| | |
|---|---|
| Water Hazard Class (Germany) | WGK 1 |
| Remarks | Classification according to Annex 4 VwVwS |

**VOC**

| | | |
|---|---|---|
| VOC (EU) | 0 | % |

**Other information**

The product does not contain substances of very high concern (SVHC).

### 15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

## SECTION 16: Other information

**Hazard statements listed in Chapter 3**

| | |
|---|---|
| H301 | Toxic if swallowed. |
| H302 | Harmful if swallowed. |
| H312 | Harmful in contact with skin. |
| H314 | Causes severe skin burns and eye damage. |
| H317 | May cause an allergic skin reaction. |
| H318 | Causes serious eye damage. |
| H319 | Causes serious eye irritation. |
| H351 | Suspected of causing cancer. |
| H400 | Very toxic to aquatic life. |
| H412 | Harmful to aquatic life with long lasting effects. |

**CLP categories listed in Chapter 3**

| | |
|---|---|
| Acute Tox. 3 | Acute toxicity, Category 3 |
| Acute Tox. 4 | Acute toxicity, Category 4 |

| | |
|---|---|
| Aquatic Acute 1 | Hazardous to the aquatic environment, acute, Category 1 |
| Aquatic Chronic 3 | Hazardous to the aquatic environment, chronic, Category 3 |
| Carc. 2 | Carcinogenicity, Category 2 |
| Eye Dam. 1 | Serious eye damage, Category 1 |
| Eye Irrit. 2 | Eye irritation, Category 2 |
| Skin Corr. 1B | Skin corrosion, Category 1B |
| Skin Sens. 1 | Skin sensitization, Category 1 |

## Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.