

## Safety Data Sheet

Deca

VMBUILDINGSOLUTIONS

Version: 5

Version date: 11/12/2023

Language: EN

According to Regulation (EC) No. 1907/2006 (amended by Regulation (EU) No. 2020/878)

## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

## 1.1. Product identifier

Trade name/designation : Deca.  
 Article No (user) : UFI: YM5D-12F4-900N-TNQ1.

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

Relevant identified uses : Acid pickling solution for metal surfaces.  
 Uses advised against : Other than recommended uses.

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

Supplier : **Name:** VM Building Solutions  
**Street:** 3, place Aimé Césaire  
**Postal code/City:** 93100 MONTREUIL  
**Country:** France :  
**E-mail:** info.ipds@vmzinc.com

## 1.4. Emergency Telephone Number

Poland:

## SECTION 2: HAZARDS IDENTIFICATION

## 2.1. Classification of the substance or mixture

Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

## Hazards identification:

|      |                |   |
|------|----------------|---|
| H272 | Ox. Liq. 2     | May intensify fire; oxidiser.           |
| H290 | Met. Corr. 1   | May be corrosive to metals.             |
| H314 | Skin Corr. 1A  | Causes severe skin burns and eye damage |
| H318 | Eye Dam. 1     | Causes serious eye damage               |
| H335 | STOT SE 3 H335 | May cause respiratory irritation        |

## 2.2. Label elements

Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

## Labelling

## Hazard pictograms



## Signal word

Danger

## Hazard Statements

|      |   |
|------|---|
| H272 | May intensify fire; oxidiser.           |
| H290 | May be corrosive to metals.             |
| H314 | Causes severe skin burns and eye damage |
| H318 | Causes serious eye damage               |
| H335 | May cause respiratory irritation        |

## Precautionary Statements - Prevention

|      |  |
|------|--|
| P210 | Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. |
| P220 | Keep/Store away from clothing/.../combustible materials.                                       |
| P234 | Keep only in original container.   |
| P260 | Do not breathe dust/fume/gas/mist/vapours/spray.   |
| P261 | Avoid breathing dust/fume/gas/mist/vapours/spray.  |
| P264 | Wash ... thoroughly after handling.  |
| P271 | Use only outdoors or in a well-ventilated area.  |
| P280 | Wear protective gloves/protective clothing/eye protection/face protection.                     |

## Precautionary Statements - Response

P301+P330+P 331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

331

P303+P361+P 353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

353

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

P305+P351+P 338 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/doctor/...

P363 Wash contaminated clothing before reuse.

P370+P378 In case of fire: Use... to extinguish.

P390 Absorb spillage to prevent material damage.

### Precautionary Statements - Storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant/... container with a resistant inner liner.

### Precautionary Statements - Disposal

P501 Dispose of contents and container in accordance with local regulations.

### Contains

hydrogen chloride, acetic acid, indium trichloride, perchloric acid

### 2.3. Other hazards

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.2. Mixtures

In accordance with the product knowledge, no nanomaterials have been identified.

The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: <http://echa.europa.eu/fr/candidate-list-table>.

| Substance             |                       | Concentration (%) | Specific concentration limits    | Classification |                   |
|-----------------------|-----------------------|-------------------|----------------------------------|----------------|-------------------|
| hydrogen chloride [1] |                       |                   |                                  |                |                   |
| CAS N°                | 7647-01-0             | 20.0% ≤C< 25.0%   | Skin Corr. 1B, : C ≥ 25 %        | H290           | Met. Corr. 1      |
| EC N°                 | 231-595-7             |                   | STOT SE 3, : C ≥ 10 %            | H314           | Skin Corr. 1B     |
| IDX N°                | 017-002-00-2          |                   | Skin Irrit. 2, : 10 % ≤ C < 25 % | H335           | STOT SE 3 H335    |
| Registration number   |                       |                   | Eye Irrit. 2, : 10 % ≤ C < 25 %  |                |                   |
| acetic acid [1]       |                       |                   |                                  |                |                   |
| CAS N°                | 64-19-7               | 15.0% ≤C< 20.0%   | Skin Corr. 1B, : 25 % ≤ C < 90 % | H226           | Flam. Liq. 3      |
| EC N°                 | 200-580-7             |                   | %                                | H314           | Skin Corr. 1A     |
| IDX N°                | 607-002-00-6          |                   | Skin Irrit. 2, : 10 % ≤ C < 25 % |                |                   |
| Registration number   | 01-2119475328-30-XXXX |                   | Skin Corr. 1A, : C ≥ 90 %        |                |                   |
|                       |                       |                   | Eye Irrit. 2, : 10 % ≤ C < 25 %  |                |                   |
| indium trichloride    |                       |                   |                                  |                |                   |
| CAS N°                | 10025-82-8            | 5.0% ≤C< 7.0%     |                                  | H302           | Acute Tox. 4 ORAL |
| EC N°                 | 233-043-0             |                   |                                  | H314           | Skin Corr. 1A     |
| IDX N°                |                       |                   |                                  |                |                   |
| Registration number   |                       |                   |                                  |                |                   |
| perchloric acid       |                       |                   |                                  |                |                   |
| CAS N°                | 7601-90-3             | 3.0% ≤C< 5.0%     |                                  | H271           | Ox. Sol. 1        |
| EC N°                 | 231-512-4             |                   |                                  | H302           | Acute Tox. 4 ORAL |
| IDX N°                | 017-006-00-4          |                   |                                  | H314           | Skin Corr. 1B     |
| Registration number   | 01-2119978750-27-XXXX |                   |                                  | H373           | STOT RE 2         |

[1] Substance for which maximum workplace exposure limits are available.

### Remark

Text phrases and H- EUH-: see section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of first aid measures

#### General information:

Rescue workers are responsible for their own protection.

When danger of unconsciousness of the patient, arrangement and transport in stable lateral position.

Move the victim away from the danger zone.

Stay warm, calm and covered.

Remove contaminated clothing immediately.

Do not give anything to an unconscious person.

In case of poisoning, call a poison control center or doctor for treatment advice, using the product packaging or label.

Symptoms of poisoning may appear even several hours later, so medical supervision is necessary for at least 48 hour after the accident.

#### **Following inhalation:**

Immediate medical assistance.

Remove the patient to fresh air and allow him/her to rest in a quiet place.

If breathing is irregular or has stopped, perform artificial respiration.

#### **Following skin contact:**

Rinse with plenty of water for at least 15 minute.

Remove contaminated clothing immediately and clean before reuse or discard if necessary.

Immediate medical assistance.

#### **Following eye contact:**

Remove contact lenses, if applicable.

Immediately rinse thoroughly under running water for at least 15 minute, holding eyelids apart.

Consult an ophthalmologist.

Immediate medical assistance.

#### **Following ingestion:**

Call a physician immediately.

Do not induce vomiting as there is an aspiration hazard.

Immediately rinse mouth with water.

Keep victim at rest.

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

#### **Symptoms:**

Respiratory tract irritation and skin irritation.

#### **Effects:**

Hazards: May cause severe burns of the mouth and throat if swallowed, as well as a risk of perforation of the esophagus and stomach.

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

Treatment: Symptomatic treatment (decontamination, vital functions).

Antidote: No specific antidote known.

Special treatment.

Symptomatic treatment (decontamination, vital functions).

## **SECTION 5: FIREFIGHTING MEASURES**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media:**

Carbon dioxide (CO<sub>2</sub>).

Alcohol-resistant foam.

Extinguishing powder.

Water spray.

#### **Unsuitable extinguishing media:**

Strong water jet.

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

Hazardous substances: carbon oxides, chlorine compounds.

Tip: Fire produces intense black smoke.

Inhalation of hazardous decomposed materials can cause serious damage to health.

May cause fire or explosion; strong oxidiser.

### **5.3. Advice for firefighters**

Special protective equipment:

Appropriate respiratory equipment may be required.

#### **Additional information**

Cool closed containers in the vicinity of a fire.

Dispose of combustion residues and contaminated water in accordance with local regulations.

The product itself is not combustible; define extinguishing media according to the presence of a fire in the vicinity.

Collect contaminated extinguishing water separately, do not allow it to enter drains or sewers.

## **SECTION 6: ACCIDENTAL RELEASE MEASURES**

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

Avoid breathing vapours.

For non-emergency personnel: Use personal protective clothing.

Ensure good ventilation of premises.

Keep away from ignition sources.

For emergency responders: Advice on handling the product can be found in sections 7 and 8 of this safety data sheet.

Information about personal protective equipment: see section 8.

### 6.2. Environmental precautions

Do not discharge into sewers or waterways.

Do not discharge into the ground/subsoil.

If product enters drains or sewers, notify the local water company immediately; in the event of contamination of streams, rivers or lakes, notify the Environment Agency.

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

Contain and collect residues using a non-flammable absorbent, such as sand, earth, vermiculite, diatomaceous earth, and store in a suitable container for disposal in accordance with waste regulations.

Clean preferably with detergent; avoid solvents.

### 6.4. Reference to other sections

Disposal: see section 13.

Personal protection equipment: see section 8.

### Additional information

Not available

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for safe handling

#### PROTECTIVE MEASURES:

Ensure good ventilation of the premises, if necessary vacuum the workplace.

Do not return residual quantities to storage containers.

Smoking, eating and drinking are prohibited in the application areas.

See section 8 for more information on personal protection.

Comply with occupational health and safety legislation.

Avoid breathing vapours or spray.

The workstation should be equipped with an emergency shower and an eye shower.

Avoid contact with skin, eyes, clothing.

Observe normal precautionary measures when handling chemicals.

Fire and explosion protection: the relevant fire safety measures must be observed.

The product itself does not burn, but it is an oxidizer. (oxidizer).

#### Advices on general occupational hygiene:

Do not breathe vapour/aerosol.

Eyewash fountains and safety showers should be easily accessible.

Avoid contact with skin, eyes, clothing.

Observe normal precautionary measures when handling chemicals.

Remove contaminated clothing and dispose of it carefully.

Wash hands and/or face before breaks and after work.

Keep away from food and feed.

#### In the immediate working surroundings there must be:

Provide eye shower and label its location conspicuously.

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

Separate bases.

Keep away from oxidizing, strongly alkaline and strongly acidic materials.

Suitable materials: High density polyethylene (HDPE), Low density polyethylene (LDE), Polyethylene terephthalate (PET), Polypropylene.

Further information on storage conditions: Keep container dry.

Keep in a cool, well-ventilated place.

Avoid direct sunlight. Store only in corrosion-resistant packaging.

Close containers carefully after opening, and store upright to prevent leakage.

No smoking.

No admission for unauthorized personnel.

Avoid contact with metals.

Protect from frost.

Storage stability: Storage temperature: 0 - 45 °C.

### 7.3. Specific end uses

For the relevant use(s) identified in heading 1, the advice given in this heading 7 must be followed.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control parameters

#### Occupational exposure limits:

| Substance                        | Value | Unit              | Type                        |
|----------------------------------|-------|-------------------|-----------------------------|
| acetic acid<br>CAS: 64-19-7 (PL) | 50    | mg/m <sup>3</sup> | Exposure limit (15 minutes) |
| perchloric acid                  | 3     | mg/m <sup>3</sup> | Exposure limit (15 minutes) |

|  |    |                   |                             |
|--|----|-------------------|-----------------------------|
| CAS: 7601-90-3 (PL)                      |    |                   |                             |
| hydrogen chloride<br>CAS: 7647-01-0 (PL) | 10 | mg/m <sup>3</sup> | Exposure limit (15 minutes) |
| acetic acid<br>CAS: 64-19-7 (PL)         | 25 | mg/m <sup>3</sup> | Exposure limit (8 hours)    |
| perchloric acid<br>CAS: 7601-90-3 (PL)   | 1  | mg/m <sup>3</sup> | Exposure limit (8 hours)    |
| hydrogen chloride<br>CAS: 7647-01-0 (PL) | 5  | mg/m <sup>3</sup> | Exposure limit (8 hours)    |

**Biological limit values:**

Not available

**Exposure limits at intended use:**

Not available

**DNEL-/PNEC-values:**

## • acetic acid:

**DNEL worker:**

| Type       | short-term |       | long-term             |       |
|------------|------------|-------|-----------------------|-------|
|            | systemic   | Local | systemic              | Local |
| Oral       |            |       |                       |       |
| Dermal     |            |       |                       |       |
| Inhalation |            |       | 25mg/m <sup>3</sup> . |       |

**DNEL consumer:**

| Type       | short-term |       | long-term             |       |
|------------|------------|-------|-----------------------|-------|
|            | systemic   | Local | systemic              | Local |
| Oral       |            |       | 7.2 mg/kg bw/day      |       |
| Dermal     |            |       | 72 mg/kg bw/day       |       |
| Inhalation |            |       | 25mg/m <sup>3</sup> . |       |

**PNEC:**

|                                    |                |
|------------------------------------|----------------|
| PNEC aquatic, freshwater           | 3.058 mg/l     |
| PNEC aquatic, marine water         | 0.3058 mg/l    |
| PNEC aquatic, intermittent release | 30.58 mg/l     |
| PNEC sediment, freshwater          | 11.36 mg/kg dw |
| PNEC sediment, marine water        | 1.136 mg/kg dw |
| PNEC soil                          | 0.478 mg/kg dw |
| PNEC sewage treatment plant (STP)  | 85 mg/l        |
| PNEC air                           |                |
| PNEC secondary poisoning           |                |

## • hydrogen chloride:

**DNEL worker:**

| Type       | short-term |                      | long-term |                     |
|------------|------------|----------------------|-----------|---------------------|
|            | systemic   | Local                | systemic  | Local               |
| Oral       |            |                      |           |                     |
| Dermal     |            |                      |           |                     |
| Inhalation |            | 15 mg/m <sup>3</sup> |           | 8 mg/m <sup>3</sup> |

**DNEL consumer:**

Not available

**PNEC:**

|                                    |            |
|------------------------------------|------------|
| PNEC aquatic, freshwater           | 0.036 mg/l |
| PNEC aquatic, marine water         | 0.036 mg/l |
| PNEC aquatic, intermittent release | 0.045 mg/l |
| PNEC sediment, freshwater          |            |
| PNEC sediment, marine water        |            |
| PNEC soil                          | 0.036 mg/l |
| PNEC sewage treatment plant (STP)  |            |

PNEC air

PNEC secondary poisoning

**Remark:**

Not available

**8.2. Exposure controls****Appropriate engineering controls:**

Ensure adequate ventilation.

Local exhaust ventilation with good general suction should be used.

If this is not sufficient to keep particle and vapour concentrations below workplace exposure limits, use suitable certified respirators.

**Individual protection measures, such as personal protective equipment:****Eye/face protection****: Recommended eye protection articles:**

Full protection safety glasses (full protection glasses) (EN 166).

**Skin protection****: Hand protection:****Suitable gloves type:**

Chemical-resistant protective gloves.

The protective glove must be tested for its particular suitability (e.g. mechanical strength, product compatibility, anti-static properties).

Gloves must be replaced immediately if they are damaged or show signs of wear.

Preventive skin protection (skin cream) is recommended.

**Suitable material:**

EN ISO 374-1) fluoroelastomer (FKM) - 0.7 mm coating thickness.

**Permeation time (maximum wear duration):**

Protection class 6, corresponding to a permeation time of &gt;480 minutes according to EN ISO 374-1.

**Body protection:****Recommended protective clothing articles:**

Body protection: Chemical-resistant protective clothing to DIN EN 13034 (type 6).

**Respiratory protection****: Recommended respiratory protection articles:**

Respiratory protective equipment: Respiratory protection required if the exposure limit value (if applicable) is likely to be exceeded (Combination filter EN 14387 ABEK).

**Environmental exposure controls:**

Not available

**Consumer exposure controls:**

Not available

**Additional information**

Not available

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES****9.1. Information on basic physical and chemical properties**

|   |   |
|---|---|
| Physical state                                    | : Liquid  |
| Colour  | : Colorless To Yellowish  |
| Odour   | : Piquante  |
| pH  | : 0.1   |
| Melting point/freezing point                      | : Not available   |
| Initial boiling point and boiling range           | : Not available   |
| Flash point                                       | : >95°C No Flash Point - Measured Up To The Indicated Temperature, The Ignition Flame Goes Out.°C |
| Flammability                                      | : Flame Retardant   |
| Upper/lower flammability or explosive limits      | : Not available   |
| Vapour pressure                                   | : Not available   |
| Vapour density                                    | : Not available   |
| Relative density                                  | : 1.210g/cm <sup>3</sup> (20 °C)  |
| Solubility(ies)                                   | : Dilutable.  |
| Partition coefficient n-octanol/water (log value) | : Not applicable  |
| Auto-ignition temperature                         | : Not available   |
| Decomposition temperature                         | : Not available   |
| Kinematic viscosity                               | : Not applicable  |
| Explosive properties                              | : No Explosive Properties   |

**Solubility in other Solvents** : Dilutable.  
**Particle characteristics** : Not applicable

## 9.2. Other safety information

### Information concerning to the classes of physical hazards

Not available

### Other security characteristics

Ability to self-heat: This is not a self-heating product.

Miscibility with water: Miscible.

## SECTION 10: STABILITY AND REACTIVITY

### 10.1. Reactivity

No hazardous reactions, if the instructions/directions for storage and handling are followed.

Corrosion of metals: Corrosive effect on metals.

### 10.2. Chemical stability

The product is stable when the prescriptions/recommendations for storage are respected.

### 10.3. Possibility of hazardous reactions

Reacts as a strong oxidizing agent with all oxidizable organic and inorganic substances.

Fire hazard. Reaction with metals, formation of hydrogen.

### 10.4. Conditions to avoid

Avoid all sources of ignition: heat, sparks, open flames.

Avoid direct natural lighting.

Prevent from freezing.

Avoid contact with metals.

### 10.5. Incompatible materials

Materials to avoid: bases, Keep away from highly acidic or alkaline substances such as oxidizers to avoid exothermic reactions. organic substances, flammable and oxidizable substances.

### 10.6. Hazardous decomposition products

Possible decomposition products: When exposed to elevated temperatures, hazardous decomposition products such as carbon monoxide, carbon dioxide, smoke and nitrogen oxides may be produced,.

No hazardous decomposition products if the instructions/directions for storage and handling are followed.

### Additional information

Not available

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Acute oral toxicity:

Not available.

#### Substances:

Not available

#### Acute dermal toxicity:

Not available.

#### Substances:

Not available

#### Acute inhalation toxicity:

Not available.

#### Substances:

Not available

#### Skin corrosion/irritation:

Not available.

#### Substances:

Not available

#### Serious eye damage/irritation:

Not available.

#### Substances:

Not available

#### Skin sensitisation:

Not available.

#### Substances:

Not available

#### Specific target organ toxicity (repeated exposure):

Not available.

#### Substances:

Not available

**Specific target organ toxicity (single exposure):**

Not available.

**Substances:**

Not available

**Carcinogenicity:**

Not available.

**Substances:**

Not available

**Reproductive toxicity:**

Not available.

**Substances:**

Not available

**Germ cell mutagenicity:**

Not available.

**Substances:**

Not available

**Sensitisation to the respiratory tract:**

Not available.

**Substances:**

Not available

**Additional information:**

Not available

**11.2. Information on other hazards****Endocrine disrupting properties:**

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

**SECTION 12: ECOLOGICAL INFORMATION****12.1. Toxicity**

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

**Substances:**

Not available

**12.2. Persistence and degradability**

The product has not been tested.

**Substances:**

Not available

**12.3. Bioaccumulative potential**

The product has not been tested.

**Substances:**

Not available

**12.4. Mobility in soil**

The product has not been tested.

**Substances:**

Not available

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

According to Regulation (EU) 1907/2006, no substances are assessed as PBT or vPvB.

**12.6. Endocrine disrupting properties**

According to Regulation (EU) 2017/2100 or Regulation (EU) 2018/605, no substances are known to have endocrine disrupting properties.

**12.7. Other adverse effects**

Not available

**Additional ecotoxicological information**

Not available

**SECTION 13: DISPOSAL CONSIDERATIONS****13.1. Waste treatment methods****Product/Packaging disposal:****Waste codes/waste designations according to EWC/AVV:**

The waste code must be assigned by the user, if possible in agreement with the authorities responsible for waste disposal.

**Waste treatment options:**

National and local regulations must be observed.

No disposal through sewage or wastewater systems.

Dispose of the substance/product as special waste in accordance with Directive 2008/98/EC.

Un-cleaned packaging.







Containers that are not properly emptied must be disposed of in accordance with Directive 2008/98/EC.  
Used packaging must be emptied in the best possible way and disposed of like the product.

#### Additional information

Not available

## SECTION 14: TRANSPORT INFORMATION

|      |                             | Land transport<br>(ADR/RID):  | Inland waterway<br>transport (ADN):   | Sea transport (IMDG):   | Air transport (ICAO-<br>TI/IATA-DGR):   |
|------|-----------------------------|---|---|---|---|
| 14.1 | UN number:                  | 3093  | 3093  | 3093  | 3093  |
| 14.2 | UN proper shipping name:    | CORROSIVE LIQUID,<br>OXIDIZING, N.O.S.  | CORROSIVE LIQUID,<br>OXIDIZING, N.O.S.  | CORROSIVE LIQUID,<br>OXIDIZING, N.O.S.  | CORROSIVE LIQUID,<br>OXIDIZING, N.O.S.  |
| 14.3 | Transport hazard class(es): |   |   |   |   |
|      | Class or Division:          | 8   | 8   | 8   | 8   |
|      | Hazard label(s):            |  |  |  |  |
| 14.4 | Packing group:              | II  | II  | II  | II  |

#### 14.5. Environmental hazards

Not available

#### 14.6. Special precautions for user

Not available

#### 14.7. Bulk shipping according to IMO instruments

Not available

#### Additional information

Not available

## SECTION 15: REGULATORY INFORMATION

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

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006.

This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

#### EU legislation:

##### Other regulations (EU):

##### Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances [Seveso-III-Directive]:

"Category 1, 2 or 3 oxidizing liquids. The total quantity likely to be present in the installation being: 1. greater than or equal to 50

t.....A 2. Greater than or equal to 2 t but less than 50

t.....D Low threshold quantity as defined in article R. 511-10: 50 t High threshold quantity as defined in article R. 511-10: 200 t".

#### EU legislation:

##### Occupational Exposure Limit Values (long term) - European Union:

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

##### Occupational Exposure Limit Values (short term) - European Union:

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

##### REACH: Annex XVII (Restrictions):

| Substance   | CAS     | EC        |
|-------------|---------|-----------|
| acetic acid | 64-19-7 | 200-580-7 |

##### Seveso III : Substances nommément désignées:

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |

#### National regulations:

##### Occupational Exposure Limit Values (long term) - Canada (Ontario):

| Substance | CAS | EC |
|-----------|-----|----|
|-----------|-----|----|

|             |         |           |
|-------------|---------|-----------|
| acetic acid | 64-19-7 | 200-580-7 |
|-------------|---------|-----------|

**Occupational Exposure Limit Values (long term) - Canada (Quebec):**

| Substance   | CAS     | EC        |
|-------------|---------|-----------|
| acetic acid | 64-19-7 | 200-580-7 |

**Occupational Exposure Limit Values (long term) - Ireland:**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

**Occupational Exposure Limit Values (long term) - NZ:**

| Substance   | CAS     | EC        |
|-------------|---------|-----------|
| acetic acid | 64-19-7 | 200-580-7 |

**Occupational Exposure Limit Values (long term) - Poland:**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |
| perchloric acid   | 7601-90-3 | 231-512-4 |

**Occupational Exposure Limit Values (long term) - Singapore:**

| Substance   | CAS     | EC        |
|-------------|---------|-----------|
| acetic acid | 64-19-7 | 200-580-7 |

**Occupational Exposure Limit Values (long term) - US (NIOSH):**

| Substance   | CAS     | EC        |
|-------------|---------|-----------|
| acetic acid | 64-19-7 | 200-580-7 |

**Occupational Exposure Limit Values (long term) - US (OSHA):**

| Substance   | CAS     | EC        |
|-------------|---------|-----------|
| acetic acid | 64-19-7 | 200-580-7 |

**Occupational Exposure Limit Values (long term) - United Kingdom:**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

**Occupational Exposure Limit Values (short term) - Canada (Ontario):**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

**Occupational Exposure Limit Values (short term) - Canada (Quebec):**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

**Occupational Exposure Limit Values (short term) - Ireland:**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

**Occupational Exposure Limit Values (short term) - NZ:**

| Substance   | CAS     | EC        |
|-------------|---------|-----------|
| acetic acid | 64-19-7 | 200-580-7 |

**Occupational Exposure Limit Values (short term) - Poland:**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |
| perchloric acid   | 7601-90-3 | 231-512-4 |

**Occupational Exposure Limit Values (short term) - Singapore:**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

**Occupational Exposure Limit Values (short term) - US (NIOSH):**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

**Occupational Exposure Limit Values (short term) - US (OSHA):**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |

**Occupational Exposure Limit Values (short term) - United Kingdom:**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |

**U.S. - NY - RTK:**

| Substance         | CAS       | EC        |
|-------------------|-----------|-----------|
| hydrogen chloride | 7647-01-0 | 231-595-7 |
| acetic acid       | 64-19-7   | 200-580-7 |
| perchloric acid   | 7601-90-3 | 231-512-4 |

**15.2. Chemical Safety Assessment**

Chemical Safety Assessment (CSA) not required.

**Additional information**

Not available

**SECTION 16: OTHER INFORMATION****Indication of changes**

Not applicable (first edition of the MSDS).

**Abbreviations and acronyms**

CAS: Chemical Abstract Service Number.

IATA: International Air Transport Association.

IMDG: International Maritime Dangerous Goods Code.

DPD Dangerous Preparation Directive.

UN number: United Nations number.

No EC: European Commission Number.

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on the waterways.

ADR/RID: European Agreement concerning the International Carriage of Dangerous Goods by Road/Regulations concerning the international carriage of dangerous goods by rail.

CLP: Classification, labeling and packaging.

VPvB: very persistent and very bioaccumulative substances.

**Key literature references and sources for data**

No data available.

**Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]**

Complies with ATP 18, Regulation (EU) n°2022/692.

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

**Relevant R-, H- and EUH-phrases (Number and full text)**

|      |                   |   |
|------|-------------------|---|
| H226 | Flam. Liq. 3      | Flammable liquid and vapour.                                      |
| H271 | Ox. Sol. 1        | May cause fire or explosion; strong oxidiser.                     |
| H272 | Ox. Liq. 2        | May intensify fire; oxidiser.                                     |
| H290 | Met. Corr. 1      | May be corrosive to metals.                                       |
| H302 | Acute Tox. 4 ORAL | Harmful if swallowed  |
| H314 | Skin Corr. 1A     | Causes severe skin burns and eye damage                           |
| H318 | Eye Dam. 1        | Causes serious eye damage   |
| H335 | STOT SE 3 H335    | May cause respiratory irritation                                  |
| H373 | STOT RE 2         | May cause damage to organs through prolonged or repeated exposure |

**Training advice**

Refer to Sections 4, 5, 6, 7 and 8 of this safety data sheet.

**Additional information**

Creation date: 12/03/2021

Version date: 11/12/2023

Printing date: 12/12/2023

The information given in this Safety Data Sheet is based on our present knowledge and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.