

Creation Date 05-May-2009 Revision Date 24-Oct-2013 Revision Number 7

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

1.1. Product identifier

Product Description: Acetic acid

Cat No.: A/0360/25, A/0360/27, A/0360/17AU, A/0360/PB21, A/0360/PB17,

Synonyms Ethanoic acid; Glacial acetic acid; Methanecarboxylic acid

 CAS-No
 64-19-7

 EC-No.
 200-580-7

 Molecular Formula
 C2 H4 O2

Reach Registration Number 01-2119475328-30

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

Recommended Use Laboratory chemicals

Sector of use SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

Product category PC21 - Laboratory chemicals

Process categories PROC15 - Use as a laboratory reagent

Environmental release category ERC6a - Industrial use resulting in manufacture of another substance (use of intermediates)

Uses advised against No Information available

1.3. Details of the supplier of the safety data sheet

Company Fisher Scientific UK

Bishop Meadow Road, Loughborough, Leicestershire LE11 5RG, United Kingdom

E-mail address begel.sdsdesk@thermofisher.com

1.4. Emergency telephone number

Chemtrec US: (800) 424-9300 Chemtrec EU: 001 (202) 483-7616

Tel: 01509 231166

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture

CLP Classification - Regulation (EC) No 1272/2008

Physical hazards

Flammable liquids Category 3

Health hazards

Skin Corrosion/irritation Category 1 A
Serious Eye Damage/Eye Irritation Category 1

Environmental hazards

Based on available data, the classification criteria are not met

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Symbol(s) C - Corrosive

Acetic acid

SECTION 2: HAZARDS IDENTIFICATION

R-phrase(s) R10 - Flammable

R35 - Causes severe burns

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

2.2. Label elements



Signal Word Danger

Hazard Statements

H226 - Flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

Precautionary Statements

P280 - Wear protective gloves/ protective clothing/ eye protection/ face protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing

P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P310 - Immediately call a POISON CENTER or doctor/ physician

P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting

P303 + P361 + P353 - IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower

2.3. Other hazards

No information available.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances

| Component | CAS-No | EC-No. | Weight % | CLP Classification - Regulation (EC) No 1272/2008 | DSD Classification - 67/548/EEC |
|-------------|---------|-------------------|----------|---|------------------------------------|
| Acetic acid | 64-19-7 | EEC No. 200-580-7 | >95 | Skin Corr. 1A (H314) Eye Dam. 1 (H318) | R10 C; R35 |
| | | | | Flam. Liq. 3 (H226) | |

| Reach Registration Number | 01-2119475328-30 |
|---------------------------|------------------|
|---------------------------|------------------|

For the full text of the R-phrases and H-Statements mentioned in this Section, see Section 16

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures

General Advice Immediate medical attention is required. Show this safety data sheet to the doctor in

attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Immediate medical attention is required. Keep eye wide open while rinsing.

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Skin Contact Wash off immediately with plenty of water for at least 15 minutes. Remove and wash

contaminated clothing before re-use. Call a physician immediately.

Ingestion Do not induce vomiting. Never give anything by mouth to an unconscious person. Clean mouth

with water. Call a physician immediately.

Inhalation If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested

or inhaled the substance: induce artificial respiration with a respiratory medical device. Remove

from exposure, lie down. Call a physician immediately.

Protection of First-aidersUse personal protective equipment.

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

Causes burns by all exposure routes. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation.

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

Notes to Physician Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible

perforation of stomach or esophagus should be investigated. Do not give chemical antidotes. Asphyxia from glottal edema may occur. Marked decrease in blood pressure may occur with

moist rales, frothy sputum, and high pulse pressure. Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media

Suitable Extinguishing Media

CO₂, dry chemical, dry sand, alcohol-resistant foam. Cool closed containers exposed to fire with water spray.

Extinguishing media which must not be used for safety reasons

No information available.

5.2. Special hazards arising from the substance or mixture

Thermal decomposition can lead to release of irritating gases and vapors. The product causes burns of eyes, skin and mucous membranes. Flammable. Containers may explode when heated. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back.

Hazardous Combustion Products

Carbon monoxide (CO), Carbon dioxide (CO₂), Thermal decomposition can lead to release of irritating gases and vapors.

5.3. Advice for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2. Environmental precautions

Should not be released into the environment. Do not flush into surface water or sanitary sewer system.

6.3. Methods and material for containment and cleaning up

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Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4. Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

SECTION 7: HANDLING AND STORAGE

7.1. Precautions for safe handling

Use only under a chemical fume hood. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Wear personal protective equipment. Do not ingest. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Corrosives area. Keep container tightly closed in a dry and well-ventilated place. Keep away from heat and sources of ignition.

7.3. Specific end use(s)

Use in laboratories

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters

Exposure limits

List source(s):

EU - Commission Directive 2006/15/EC of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

UK - EH40/2005 Containing the workplace exposure limits (WELs) for use with the Control of Substances Hazardous to Health Regulations (COSHH) 2002 (as amended). Updated by September 2006 official press release and October 2007 Supplement. **IRE -** 2010 Code of Practice for the Safety, Health and Welfare at Work (Chemical Agents) Regulations 2001. Published by the Health and Safety Authority.

Component

Acetic acid

| European Union | The United Kingdom | France | Belgium | Spain |
|----------------|----------------------------|-------------------------------------|----------------------------------|---------------------------------|
| - | STEL: 37 mg/m ³ | STEL / VLCT: 10 ppm. | TWA: 10 ppm 8 uren | STEL / VLA-EC: 15 ppm |
| | STEL: 15 ppm | STEL / VLCT: 25 mg/m ³ . | TWA: 25 mg/m ³ 8 uren | (15 minutos). |
| | TWA: 10 ppm | | STEL: 15 ppm 15 | STÉL / VLA-EC: 37 |
| | TWA: 25 mg/m ³ | | minuten | mg/m ³ (15 minutos). |
| | _ | | STEL: 38 mg/m ³ 15 | TWA / VLA-ED: 10 ppm |
| | | | minuten | (8 horas) |
| | | | | TWA / VLA-ED: 25 |
| | | | | mg/m³ (8 horas) |

Component Acetic acid

| Italy | Germany | Portugal | The Netherlands | Finland |
|-------|---------------------------------|---------------------|------------------------------|-------------------------------|
| - | TWA: 10 ppm (8 | STEL: 15 ppm 15 | MAC-TGG 25 mg/m ³ | TWA: 5 ppm 8 tunteina |
| | Stunden). AGW - | minutos | | TWA: 13 mg/m ³ 8 |
| | exposure factor 2 | TWA: 10 ppm 8 horas | | tunteina |
| | TWA: 25 mg/m ³ (8 | | | STEL: 10 ppm 15 |
| | Stunden). AGW - | | | minuutteina |
| | exposure factor 2 | | | STEL: 25 mg/m ³ 15 |
| | TWA: 10 ppm (8 | | | minuutteina |
| | Stunden). MAK | | | |
| | TWA: 25 mg/m ³ (8 | | | |
| | Stunden). MAK | | | |
| | Höhepunkt: 20 ppm | | | |
| | Höhepunkt: 50 mg/m ³ | | | |

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| Component | Austria | Denmark | Switzerland | Poland | Norway |
|-------------|-------------------------------|-------------------------------------|-----------------------------------|--------------------------------|-----------------------------------|
| Acetic acid | STEL: 20 ppm 15 | TWA: 10 ppm 8 timer | STEL: 20 ppm 15 | NDSCh: 30 mg/m ³ 15 | TWA: 10 ppm 8 timer |
| | Minuten | TWA: 25 mg/m ³ 8 timer | Minuten | minutach | TWA: 25 mg/m ³ 8 timer |
| | STEL: 50 mg/m ³ 15 | _ | STEL: 50 mg/m ³ 15 | TWA: 15 mg/m ³ 8 | STEL: 20 ppm 15 |
| | Minuten | | Minuten | godzinach | minutter. |
| | TWA: 10 ppm 8 Stunden | | MAK: 10 ppm 8 Stunden | | STEL: 37.5 mg/m ³ 15 |
| | TWA: 25 mg/m ³ 8 | | MAK: 25 mg/m ³ 8 | | minutter. |
| | Stunden | | Stunden | | |
| | | | | | |
| Component | Bulgaria | Croatia | Ireland | Cyprus | Czech Republic |
| Acetic acid | TWA: 25.0 mg/m ³ | TWA: 10 ppm 8 satima. | TWA: 10 ppm 8 hr. | TWA: 10 ppm | TWA: 25 mg/m ³ 8 |
| | STEL: 37.0 mg/m ³ | TWA: 25 mg/m ³ 8 satima. | TWA: 25 mg/m ³ 8 hr. | TWA: 25 mg/m ³ | hodinách. |
| | | | STEL: 15 ppm 15 min | | Ceiling: 35 mg/m ³ |
| | | | STEL: 37 mg/m ³ 15 min | | |
| | | | | | |
| Component | Estonia | Gibraltar | Greece | Hungary | Iceland |
| Acetic acid | TWA: 10 ppm 8 tundides. | TWA: 10 ppm 8 hr | STEL: 15 ppm | STEL: 25 mg/m ³ 15 | TWA: 10 ppm 8 |
| | TWA: 25 mg/m ³ 8 | TWA: 25 mg/m ³ 8 hr | STEL: 37 mg/m ³ | percekben. | klukkustundum. |
| | tundides. | _ | TWA: 10 ppm | TWA: 25 mg/m ³ 8 | TWA: 25 mg/m ³ 8 |
| | STEL: 10 ppm 15 | | TWA: 25 mg/m ³ | órában. | klukkustundum. |
| | minutites. | | _ | | Ceiling: 20 ppm |
| | STEL: 25 mg/m ³ 15 | | | | Ceiling: 50 mg/m ³ |
| | minutites. | | | | |

Component Acetic acid

| Latvia | Lithuania | Luxembourg | Malta | Romania |
|---------------------------|---------------------------|-----------------------------|---------------------------|---------------------------------|
| TWA: 10 ppm | TWA: 10 ppm | TWA: 10 ppm 8 Stunden | TWA: 10 ppm | TWA: 10 ppm 8 ore |
| TWA: 25 mg/m ³ | TWA: 25 mg/m ³ | TWA: 25 mg/m ³ 8 | TWA: 25 mg/m ³ | TWA: 25 mg/m ³ 8 ore |
| _ | _ | Stunden | | _ |

Component Acetic acid

| Russia | Slovak Republic | Slovenia | Sweden | Turkey |
|--------------------------|---------------------------|----------------------------------|-------------------------------------|----------------------------------|
| Skin notation | TWA: 10 ppm | TWA: 10 ppm 8 urah | STV: 10 ppm 15 minuter | TWA: 10 ppm 8 saat |
| MAC: 5 mg/m ³ | TWA: 25 mg/m ³ | TWA: 25 mg/m ³ 8 urah | STV: 25 mg/m ³ 15 | TWA: 25 mg/m ³ 8 saat |
| _ | _ | _ | minuter | _ |
| | | | LLV: 5 ppm 8 timmar. | |
| | | | LLV: 13 mg/m ³ 8 timmar. | |

Biological limit values

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Monitoring methods

BS EN 14042:2003 Title Identifier: Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents.

MDHS70 General methods for sampling airborne gases and vapours

MDHS 88 Volatile organic compounds in air. Laboratory method using diffusive samplers, solvent desorption and gas chromatography MDHS 96 Volatile organic compounds in air - Laboratory method using pumped solid sorbent tubes, solvent desorption and gas chromatography

Derived No Effect Level (DNEL) Workers

| Route of exposure | Acute effects (local) | Acute effects (systemic) | Chronic effects (local) | Chronic effects (systemic) |
|-------------------|-----------------------|--------------------------|-------------------------|----------------------------|
| Oral | | | | |
| Dermal | | | | |
| Inhalation | 25 mg/m³ | | 25 mg/m³ | |

Predicted No Effect Concentration

(PNEC)

See values below.

3,058mg/l Fresh water Fresh water sediment 11,36mg/kg

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Marine water 0.03058 mg/L Marine water sediment 1.136 mg/kg **Water Intermittent** 30.58 mg/kg Microorganisms in sewage 85mg/l

treatment

Acetic acid

Soil (Agriculture) 0,478mg/kg

8.2. Exposure controls

Engineering Measures

Use only under a chemical fume hood. Use explosion-proof electrical/ventilating/lighting/equipment. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Personal protective equipment

Eye Protection Tightly fitting safety goggles or Face-shield (European standard - EN 166)

Hand Protection Protective gloves

| Glove material | Breakthrough time | Glove thickness | EU standard | Glove comments |
|----------------|-------------------|-----------------|-------------|-----------------------|
| Butyl rubber | > 480 minutes | 0.5 mm | EN 374 | (minimum requirement) |

Inspect gloves before use.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. (Refer to manufacturer/supplier for information)

Ensure gloves are suitable for the task: Chemical compatability, Dexterity, Operational conditions, User susceptibility, e.g. sensitisation effects, also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Remove gloves with care avoiding skin contamination.

Skin and body protection Long sleeved clothing

Respiratory Protection When workers are facing concentrations above the exposure limit they must use appropriate

certified respirators

To protect the wearer, respiratory protective equipment must be the correct fit and be used and

maintained properly.

Large scale/emergency use Use a NIOSH/MSHA or European Standard EN 136 approved respirator if exposure limits are

exceeded or if irritation or other symptoms are experienced..

Recommended Filter type: Particulates filter conforming to EN 143, Acid gases filter, Type

E, Yellow, conforming to EN14387.

Use a NIOSH/MSHA or European Standard EN 149:2001 approved respirator if exposure Small scale/Laboratory use

limits are exceeded or if irritation or other symptoms are experienced.

Recommended half mask:- Valve filtering: EN405 or Half mask: EN140 plus filter, EN 141

When RPE is used a face piece Fit Test should be conducted.

Handle in accordance with good industrial hygiene and safety practice. **Hygiene Measures**

Environmental exposure controls Prevent product from entering drains.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties

Appearance Colorless **Physical State** Liquid. Odor vinegar-like **Odor Threshold** No data available

< 2.5 10 g/L aq.sol. pН

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Melting Point/Range 16 - 16.5°C / 60.8 - 61.7°F

Softening Point No data available

Boiling Point/Range 117 - 118°C / 242.6 - 244.4°F

Flash Point 40°C / 104°F Method - No information available.

Evaporation Rate 0.97 (Butyl Acetate = 1.0)

Flammability (solid,gas) Not applicable Liquid

Explosion Limits Lower 4 vol% Upper 19.9 vol%

Vapor Pressure 1.52 kPa @ 20 °C

Vapor Density 2.10 (Air = 1.0) (Air = 1.0)

Specific Gravity / Density 1.048

Bulk Density Not applicable Liquid

Water Solubility miscible

Solubility in other solvents No information available.

Partition Coefficient (n- Component log Pow octanol/water)

Component Acetic acid -0.2

Autoignition Temperature427 - °C / 800.6 - °FDecomposition temperatureNo data availableViscosity1.53 mPa.s @ 25 °C

Explosive PropertiesNo information available. explosive air/vapour mixtures possible

Oxidizing Properties No information available.

9.2. Other information

Acetic acid

Molecular FormulaC2 H4 O2Molecular Weight60.05

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity

None known, based on information available.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous Polymerization Hazardous polymerization does not occur.

Hazardous Reactions None under normal processing.

10.4. Conditions to avoid

Incompatible products, Excess heat, Keep away from open flames, hot surfaces and sources

of ignition.

10.5. Incompatible materials

Strong oxidizing agents. Strong bases. Metals.

10.6. Hazardous decomposition products

Carbon monoxide (CO), Carbon dioxide (CO₂), Thermal decomposition can lead to release of irritating gases and vapors.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1. Information on toxicological effects

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SECTION 11: TOXICOLOGICAL INFORMATION

Product Information

(a) acute toxicity;

Oral Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met **Dermal** Inhalation Based on available data, the classification criteria are not met

| Component | LD50 Oral | LD50 Dermal | LC50 Inhalation |
|-------------|------------------|---------------------|---------------------|
| Acetic acid | 3310 mg/kg (Rat) | 1060 mg/kg (Rabbit) | 11.4 mg/L (Rat) 4 h |

(b) skin corrosion/irritation; Category 1 A

(c) serious eye damage/irritation; Category 1

(d) respiratory or skin sensitization;

Respiratory Based on available data, the classification criteria are not met Based on available data, the classification criteria are not met Skin

(e) germ cell mutagenicity; On basis of test data Based on available data, the classification criteria are not met

Not mutagenic in AMES Test

Based on available data, the classification criteria are not met (f) carcinogenicity;

There are no known carcinogenic chemicals in this product

(g) reproductive toxicity;

Based on available data, the classification criteria are not met Reproductive Effects

Experiments have shown reproductive toxicity effects on laboratory animals.

Based on available data, the classification criteria are not met (h) STOT-single exposure;

(i) STOT-repeated exposure; Based on available data, the classification criteria are not met

Eyes, Respiratory system, Skin, Teeth, Gastrointestinal tract (GI), Liver, Kidney, Blood. **Target Organs**

(j) aspiration hazard; Based on available data, the classification criteria are not met

Other Adverse Effects Symptoms / effects.

See actual entry in RTECS for complete information

Ingestion causes severe swelling, severe damage to the delicate tissue and danger of both acute and delayed

perforation.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity **Ecotoxicity effects**

The product contains following substances which are hazardous for the environment.

| Component | Freshwater Fish | Water Flea | Freshwater Algae | Microtox |
|-------------|----------------------|--------------------|------------------|-------------------------|
| Acetic acid | Pimephales promelas: | EC50 = 95 mg/L/24h | | Photobacterium |
| | LC50 = 88 mg/L/96h | | | phosphoreum: EC50 = 8.8 |
| | Lepomis macrochirus: | | | mg/L/15 min |
| | LC50 = 75 mg/L/96h | | | Photobacterium |
| | | | | phosphoreum: EC50 = 8.8 |
| | | | | mg/L/25 min |
| | | | | Photobacterium |
| | | | | phosphoreum: EC50 = 8.8 |
| | | | | mg/L/5 min |

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12.2. Persistence and degradability

Persistence

Degradation in sewage treatment plant

Expected to be biodegradable

Miscible with water, Persistence is unlikely, based on information available.

Contains substances known to be hazardous to the environment or not degradable in waste

water treatment plants.

12.3. Bioaccumulative potential

Bioaccumulation is unlikely

| Component | log Pow | Bioconcentration factor (BCF) |
|-------------|---------|-------------------------------|
| Acetic acid | -0.2 | No data available |

12.4. Mobility in soil

The product is water soluble, and may spread in water systems. Will likely be mobile in the

environment due to its water solubility. Highly mobile in soils.

12.5. Results of PBT and vPvB

assessment

No data available for assessment

12.6. Other adverse effects **Endocrine Disruptor Information Persistent Organic Pollutant Ozone Depletion Potential**

This product does not contain any known or suspected endocrine disruptors

This product does not contain any known or suspected substance This product does not contain any known or suspected substance

SECTION 13: DISPOSAL CONSIDERATIONS

13.1. Waste treatment methods

Waste from Residues / Unused

Products

Waste is classified as hazardous. Dispose of in accordance with the European Directives on

waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point.. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty

container away from heat and sources of ignition.

European Waste Catalogue (EWC)

According to the European Waste Catalogue, Waste Codes are not product specific, but

application specific.

Other Information

Do not dispose of waste into sewer. Waste codes should be assigned by the user based on the application for which the product was used. Can be incinerated, when in compliance with local

regulations. Do not empty into drains. Large amounts will affect pH and harm aquatic

organisms.

SECTION 14: TRANSPORT INFORMATION

IMDG/IMO

14.1. UN number UN2789

14.2. UN proper shipping name ACETIC ACID, GLACIAL

14.3. Transport hazard class(es) R Subsidiary Hazard Class 3 14.4. Packing group

П

ADR

UN2789 14.1. UN number

14.2. UN proper shipping name ACETIC ACID, GLACIAL

14.3. Transport hazard class(es) **Subsidiary Hazard Class**

8

14.4. Packing group

3 Π

IATA

14.1. UN number UN2789

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14.2. UN proper shipping name ACETIC ACID, GLACIAL

14.3. Transport hazard class(es) 8
Subsidiary Hazard Class 3
14.4. Packing group II

14.5. Environmental hazardsNo hazards identified

14.6. Special precautions for userNo special precautions required

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the

Not applicable, packaged goods

IBC Code

Acetic acid

SECTION 15: REGULATORY INFORMATION

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

International Inventories X = listed

| Component | EINECS | ELINCS | NLP | TSCA | DSL | NDSL | PICCS | ENCS | CHINA | AICS | KECL |
|-------------|---------------|--------|-----|------|-----|------|-------|------|-------|------|------|
| Acetic acid | 200-580-7 | - | • | X | X | - | X | X | X | X | X |

National Regulations

| Component | Germany - Water Classification (VwVwS) | Germany - TA-Luft Class |
|-------------|--|---|
| Acetic acid | WGK 1 | Class II: 0.50 kg/h (Massenstrom) |
| | | Class II: 0.10 g/m³ (Massenkonzentration) |

Take note of Control of Substances Hazardous to Health Regulations (COSHH) 2002 and 2005 Amendment

Take note of Dir 94/33/EC on the protection of young people at work

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

15.2. Chemical safety assessment

A Chemical Safety Assessment/Report (CSA/CSR) has not been conducted

SECTION 16: OTHER INFORMATION

Full text of R-phrases referred to under sections 2 and 3

R10 - Flammable

R35 - Causes severe burns

Full text of H-Statements referred to under sections 2 and 3

H226 - Flammable liquid and vapor

H314 - Causes severe skin burns and eye damage

H318 - Causes serious eye damage

Legend

CAS - Chemical Abstracts Service

EINECS/ELINCS - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Existing and Evaluated Chemical Substances

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic

Substances List

ENCS - Japan Existing and New Chemical Substances

AICS - Australian Inventory of Chemical Substances

NZIoC - New Zealand Inventory of Chemicals

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WEL - Workplace Exposure Limit

Acetic acid

ACGIH - American Conference of Industrial Hygiene

DNEL - Derived No Effect Level
 RPE - Respiratory Protective Equipment
 LC50 - Lethal Concentration 50%
 NOEC - No Observed Effect Concentration

PBT - Persistent, Bioaccumulative, Toxic

ADR - European Agreement Concerning the International Carriage of Dangerous Goods by Road

IMO/IMDG - International Maritime Organization/International Maritime Dangerous Goods Code

OECD - Organisation for Economic Co-operation and Development

BCF - Bioconcentration factor

TWA - Time Weighted Average

IARC - International Agency for Research on Cancer

PNEC - Predicted No Effect Concentration

LD50 - Lethal Dose 50%

EC50 - Effective Concentration 50% **POW** - Partition coefficient Octanol:Water

vPvB - very Persistent, very Bioaccumulative

ICAO/IATA - International Civil Aviation Organization/International Air Transport Association

MARPOL - International Convention for the Prevention of Pollution from

Ships **ATE** - Acute Toxicity Estimate

VOC - Volatile Organic Compounds

Key literature references and sources for data

Suppliers safety data sheet, Chemadvisor - LOLI, Merck index, RTECS

Training Advice

Chemical hazard awareness training, incorporating labelling, Safety Data Sheets (SDS), Personal Protective Equipment (PPE) and hygiene.

Use of personal protective equipment, covering appropriate selection, compatibility, breakthrough thresholds, care, maintenance, fit and standards.

First aid for chemical exposure, including the use of eye wash and safety showers.

Chemical incident response training.

Creation Date05-May-2009Revision Date24-Oct-2013

Revision Summary

Reason for revision (M)SDS sections updated, 8.

This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

End of Safety Data Sheet