MATERIAL SAFETY DATA SHEET

SUPPLIER: PRODUITS CHIMIQUES ACP CHEMICALS INC.

1. Product and Company Identification

NAME OF PRODUCT: Hexanoic acid Synonyms: Caproic acid; Acid C6

CAS No: 142-62-1

Molecular Weight: 116.16 g/mol Chemical Formula: C6H12O2

SUPPLIER/MANUFACTURER & PREPARATOR:

Produits Chimiques ACP Chemicals, Inc. 4601 boulevard des Grandes-Prairies St-Léonard, QC H1R 1A5 514-327-0323

DATE OF MSDS: 3/16/2018

EMERGENCY TELEPHONE NO.: (613) 996-6666 (CANUTEC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No. EC-No. Index-No. Concentration

Hexanoic acid

142-62-1 205-550-7 - <=100%

3. HAZARDS IDENTIFICATION

Emergency Overview

Other hazards which do not result in classification

Stench., Rapidly absorbed through skin.

WHMIS Classification

D1B Toxic Material Causing Immediate and Serious
Toxic Effects
Toxic by skin absorption
D2B Toxic Material Causing Other Toxic Effects Moderate eye irritant
E Corrosive Material Corrosive

GHS Classification

Acute toxicity, Oral (Category 4)
Acute toxicity, Inhalation (Category 3)
Acute toxicity, Dermal (Category 3)
Skin corrosion (Category 1B)
Serious eye damage (Category 1)
Acute aquatic toxicity (Category 3)

HMIS Classification Health hazard: 3 Flammability: 1 Physical hazards: 0

Potential Health Effects

Inhalation: Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and upper respiratory tract.

Skin: Toxic if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Ingestion: Harmful if swallowed.

4. FIRST AID MEASURES

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

Inhalation: If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

Eye contact: Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician. Continue rinsing eyes during transport to hospital.

Ingestion: Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

5. FIREFIGHTING MEASURES

Conditions of flammability: Not flammable or combustible.

Suitable extinguishing media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

Hazardous combustion products: Hazardous decomposition products formed under fire conditions. - Carbon oxides

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

Methods and materials for containment and cleaning up: Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe handling: Avoid contact with skin and eyes. Avoid inhalation of vapor or mist.

Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.4 mm Break through time: 480 min

Material tested: Camatril® (KCL 730 / Aldrich Z677442, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.2 mm Break through time: 30 min

Material tested:Dermatril® P (KCL 743 / Aldrich Z677388, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test

method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industrial hygienist and safety officer familiar with the specific situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

Eye protection: Tightly fitting safety goggles. Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin and body protection: Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Hygiene measures: Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Specific engineering controls: Use mechanical exhaust or laboratory fumehood to avoid exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: clear, liquid

Color: colorless

pH No data available

Melting point/freezing point: Melting point/range: -4 °C (25 °F) - lit.

Boiling point: 202 - 203 °C (396 - 397 °F) - lit.

Flash point: 102 °C (216 °F) - closed cup

Ignition temperature: 380 °C (716 °F)

Auto-ignition temperature: No data available

Lower explosion limit: 2 %(V)

Upper explosion limit: 10 %(V)

Vapor pressure: 1 hPa (1 mmHg) at 72 °C (162 °F) 0.24 hPa (0.18 mmHg) at 20 °C (68 °F)

Density: 0.927 g/cm3 at 25 °C (77 °F)

Solubility: No data available

Relative vapor density: 4.01 - (Air = 1.0)

10. STABILITY AND REACTIVITY

Chemical stability: Stable under recommended storage conditions.

Possibility of hazardous reactions: No data available

Conditions to avoid: No data available

Materials to avoid: Bases, Oxidizing agents, Reducing agents, Allyl alcohol

Hazardous decomposition products: Hazardous decomposition products formed under fire conditions. -

Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Oral LD50: LD50 Oral - Rat - 1,900 mg/kg

Inhalation LC50: LC50 Inhalation - Mouse - 2 h - 4,100 mg/m3

Dermal LD50: LD50 Dermal - Rabbit - 584 mg/kg

Serious eye damage/eye irritation: Eyes - Rabbit - Severe eye irritation

Respiratory or skin sensitization: No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

Potential health effects

Inhalation: Toxic if inhaled. Material is extremely destructive to the tissue of the mucous membranes and

upper respiratory tract.

Ingestion: Harmful if swallowed.

Skin: Toxic if absorbed through skin. Causes skin burns.

Eyes: Causes eye burns.

Signs and Symptoms of Exposure: Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes, and skin. Cough, Shortness of breath, Headache, Nausea

12. ECOLOGICAL INFORMATION

Toxicity

Toxicity to fish LC50 - Pimephales promelas (fathead minnow) - 88 mg/l - 96 h Toxicity to daphnia and other aquatic invertebrates EC50 - Daphnia magna (Water flea) - 22 mg/l - 24 h

Persistence and degradability

Bioaccumulative potential: No data available

Mobility in soil: No data available

PBT and vPvB assessment: No data available

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Harmful to aquatic life.

13. DISPOSAL CONSIDERATIONS

Product: Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging: Dispose of as unused product.

14. TRANSPORT INFORMATION

DOT (US)

UN number: 2829

Class: 8

Packing group: III

Proper shipping name: Caproic acid

Reportable Quantity (RQ): Marine pollutant: No

Poison Inhalation Hazard: No

IMDG

UN number: 2829

Class: 8

Packing group: III EMS-No: F-A, S-B

Proper shipping name: CAPROIC ACID

Marine pollutant: No

IATA

UN number: 2829

Class: 8

Packing group: III

Proper shipping name: Caproic acid

15. REGULATORY INFORMATION

WHMIS Classification

D1B Toxic Material Causing Immediate and Serious
Toxic Effects
Toxic by skin absorption
D2B Toxic Material Causing Other Toxic Effects Moderate eye irritant
E Corrosive Material Corrosive

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations.

Disclaimer:

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