# SAFETY DATA SHEET

Version 5.2 Revision Date 07/11/2014 Print Date 04/30/2018

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Naphthenic acid

Product Number : 70340 Brand : Aldrich

Product Use : For laboratory research purposes.

**CANADA** 

Supplier : Sigma-Aldrich Canada Co. Manufactur : Sigma-Aldrich Corporation

2149 Winston Park Drive er 3050 Spruce St.

OAKVILLE ON L6H 6J8 St. Louis, Missouri 63103

USA

Telephone : +1 9058299500 Fax : +1 9058299292

Emergency Phone # (For

**Preparation Information** 

both supplier and manufacturer)

ooth supplier and

Product Safety - Americas Region

Sigma-Aldrich Corporation

+1-703-527-3887 (CHEMTREC)

1-800-521-8956

## 2. HAZARDS IDENTIFICATION

## **Emergency Overview**

### **WHMIS Classification**

D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant Moderate eye irritant

### **GHS Classification**

Acute toxicity, Oral (Category 5)
Acute toxicity, Dermal (Category 5)
Skin irritation (Category 2)
Eye irritation (Category 2A)
Skin sensitisation (Category 1)
Acute aquatic toxicity (Category 3)

## GHS Label elements, including precautionary statements

Pictogram

**(!)** 

Signal word Warning

Hazard statement(s)

H303 + H313 May be harmful if swallowed or in contact with skin.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H402 Harmful to aquatic life.

Precautionary statement(s)

P280 Wear protective gloves.

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

present and easy to do. Continue rinsing.

#### **HMIS Classification**

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Health hazard: 2 Flammability: 1 Physical hazards: 0

### **Potential Health Effects**

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.Skin May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

**Ingestion** May be harmful if swallowed.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS-No.	EC-No.	Index-No.	Concentration
Naphthenic acids			
1338-24-5	215-662-8	-	<=100%

#### 4. FIRST AID MEASURES

#### General advice

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

#### If inhaled

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

### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

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 fire fighting if necessary.

## **Hazardous combustion products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known.

## Explosion data - sensitivity to mechanical impact

no data available

### Explosion data - sensitivity to static discharge

no data available

## 6. ACCIDENTAL RELEASE MEASURES

#### Personal precautions

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.

# **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.

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### 7. HANDLING AND STORAGE

#### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

## Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place.

#### 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 multi-purpose 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: Nature latex/chloroprene Minimum layer thickness: 0.6 mm Break through time: 60 min

Material tested:Lapren® (KCL 706 / Aldrich Z677558, 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

Face shield and safety glasses 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

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### Specific engineering controls

Use mechanical exhaust or laboratory fumehood to avoid exposure.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

## **Appearance**

Form viscous liquid
Colour no data available

#### Safety data

pH no data available
Melting no data available

point/freezing point

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Boiling point 106.4 - 333.6 °C (223.5 - 632.5 °F) at 1,013 hPa (760 mmHg)

Flash point 101 °C (214 °F) - closed cup

Ignition temperature no data available

Auto-ignition no data available

temperature

Lower explosion limit no data available
Upper explosion limit no data available
Vapour pressure no data available

Density 0.92 g/cm3 at 20 °C (68 °F)

Water solubility 0.05 g/l at 20 °C (68 °F) - slightly soluble

Partition coefficient:

n-octanol/water

no data available

Viscosity, kinematic 22 mm2/s at 20 °C (68 °F)

Relative vapour

density

no data available

Odour no data available
Odour Threshold no data available
Evapouration rate no data available

## 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

no data available

## **Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Nature of decomposition products not known. Other decomposition products - no data available

## 11. TOXICOLOGICAL INFORMATION

## **Acute toxicity**

#### Oral LD50

LD50 Oral - rat - 3,000 mg/kg

Remarks: Behavioral:Food intake (animal). Diarrhoea Gastrointestinal:Other changes.

# Inhalation LC50

no data available

## **Dermal LD50**

LD50 Dermal - rabbit - male and female - > 2,000 mg/kg

### Other information on acute toxicity

no data available

#### Skin corrosion/irritation

Skin - rabbit - Irritating to skin. - 24 h - OECD Test Guideline 404

# Serious eye damage/eye irritation

no data available

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## Respiratory or skin sensitisation

Maximisation Test - quinea pig - May cause sensitisation by skin contact. - OECD Test Guideline 406

## Germ cell mutagenicity

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.

### Reproductive toxicity

no data available

### **Teratogenicity**

no data available

## Specific target organ toxicity - single exposure (Globally Harmonized System)

no data available

## Specific target organ toxicity - repeated exposure (Globally Harmonized System)

no data available

## **Aspiration hazard**

no data available

#### Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes eye irritation.

### Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# Synergistic effects

no data available

## **Additional Information**

Repeated dose toxicity - rat - female - Oral - No observed adverse effect level - 6 mg/kg - Lowest observed adverse

effect level - 60 mg/kg RTECS: QK8750000

# 12. ECOLOGICAL INFORMATION

# **Toxicity**

Toxicity to fish static test LC50 - Danio rerio (zebra fish) - >= 16.3 mg/l - 96 h

## Persistence and degradability

no data available

### Bioaccumulative potential

no data available

# Mobility in soil

no data available

## PBT and vPvB assessment

no data available

## Other adverse effects

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An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

Harmful to aquatic life.

no data available

### 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.

## Contaminated packaging

Dispose of as unused product.

### 14. TRANSPORT INFORMATION

DOT (US)

UN number: 3082 Class: 9 Packing group: III

Proper shipping name: Environmentally hazardous substance, liquid, n.o.s. (Naphthenic acids)

Reportable Quantity (RQ): 100 lbs

Marine pollutant: No

Poison Inhalation Hazard: No

**IMDG** 

Not dangerous goods

**IATA** 

Not dangerous goods

#### 15. REGULATORY INFORMATION

### **WHMIS Classification**

D2B Toxic Material Causing Other Toxic Effects Moderate skin irritant Moderate eye irritant

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.

### 16. OTHER INFORMATION

## Text of H-code(s) and R-phrase(s) mentioned in Section 3

### **Further information**

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