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-----ISO 9001: 2015----

MATERIAL SAFETY DATA SHEET

1.Identification

1.1GHS Product identifier Caprylic acid, 98% Code C 1584

2.1Classification of the substance or mixture

Skin corrosion, Category 1B

2.2GHS label elements, including precautionary statements

Pictogram(s)

Signal word

Hazard statement(s) Precautionary statement(s)

Prevention

Response

H314 Causes severe skin burns and eye damage

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

P264 Wash ... thoroughly after handling.

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

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

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

water [or shower].

P363 Wash contaminated clothing before reuse.

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

P310 Immediately call a POISON CENTER/doctor/\u2026

P321 Specific treatment (see ... on this label).
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

present and easy to do. Continue rinsing.

P405 Store locked up. Storage

P501 Dispose of contents/container to ... Disposal

2.3Other hazards which do not result in classification

3. Composition/information on ingredients

3.1Substances					
Chemical name	Common names and synonyms	CAS number	EC number	Concentration	
octanoic acid	octanoic acid	124-07-2	none	100%	

4. First-aid measures

4.1Description of necessary first-aid measures

General advice

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.

4.2Most important symptoms/effects, acute and delayed

Harmful if swallowed, inhaled, or absorbed through skin. Material is extremely destructive to tissues of mucous membrane, and upper respiratory tract, eyes and skin. Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness or breath, headache, nausea and vomiting. (USCG, 1999)

4.3Indication of immediate medical attention and special treatment needed, if necessary

/SRP:/ Immediate first aid: Ensure that adequate decontamination has been carried out. If patient is not breathing, start artificial respiration, preferably with a demand-valve resuscitator, bag-valve-mask device, or pocket mask, as trained. Perform CPR as necessary. Immediately flush contaminated eyes with gently flowing water. Do not induce vomiting. If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain an open airway and prevent aspiration. Keep patient quiet and maintain normal body temperature. Obtain medical attention. /Organic acids and related compounds/

5.Fire-fighting measures

5.1Extinguishing media

Suitable extinguishing media

If material on fire or involved in fire: Use water in flooding quantities as fog. Solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible. Use "alcohol" foam, dry chemical or carbon dioxide. Use water spray to knock-down vapors..

5.2Specific hazards arising from the chemical

This chemical is combustible.

5.3Special protective actions for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

6.1Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

6.2Environmental precautions

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

6.3Methods and materials for containment and cleaning up

Environmental considerations: Land spill: Dig a pit, pond, lagoon, holding area to contain liquid or solid material. /SRP: If time permits, pits, ponds, lagoons, soak holes, or holding areas should be sealed with an impermeable flexible membrane liner./ Dike surface flow using soil, sand bags, foamed polyurethane, or foamed concrete. Neutralize with agricultural lime (CaO), crushed limestone (CaCO3) or sodium bicarbonate (NaHCO3). Absorb bulk liquid with fly ash, cement powder, or commercial sorbents.

7. Handling and storage

7.1Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure - obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2Conditions for safe storage, including any incompatibilities

Containers less than 1 gallon: Store in original container in areas inaccessible to children and persons unfamiliar with its proper use. Containers greater than 1 gallon: Do not contaminate water, food, feed by storage or disposal. ... Store this product in a cool, dry area, away from direct sunlight and heat../65 Disinfecting Heavy Duty Acid Bathroom Cleaner/

8.Exposure controls/personal protection

8.1Control parameters

Occupational Exposure limit values

no data available

Biological limit values

no data available

8.2Appropriate engineering controls

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

8.3Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Safety glasses with side-shields conforming to EN166. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Wear impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. 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. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Respiratory protection
Wear dust mask when handling large quantities.

Thermal hazards no data available

9. Physical and chemical properties

Physical state Light yellow Characteristic Liquid

Colour SOLIDIFIES TO LEAFY CRYSTALS WHEN COLD

Odour FAINT, FRUITY-ACID ODOR Melting point/ freezing point 320\u00b0C(dec.)(lit.)

Boiling point or initial boiling point and boiling 237\u00b0C(lit.)

range

Flamma bility no data available Lower and upper explosion limit / flamma bility no data available

limit

Flash point >110\u00b0C Auto-ignition temperature no data available Decomposition temperature no data available no data available рΗ Kine matic viscosity 5.74 mPa sec

Solubility In water:0.68 g/L (20 \u00baC)

Partition coefficient n-octanol/water (log value) no data available 1 mm Hg (78 \u00b0C) Vapour pressure Density and/or relative density 0.91g/mLat 25\u00b0C(lit.)

Relative vapour density 5 (vs air) no data available Particle characteristics

10. Stability and reactivity

10.1Reactivity no data available 10.2Chemical stability

Stable under recommended storage conditions.

10.3Possibility of hazardous reactions

Combustible OCTANOIC ACID reacts exothermically to neutralize bases. Can react with active metals to form gaseous hydrogen and a metal salt. May absorb enough water from the air and dissolve sufficiently in it to corrode or dissolve iron, steel, and aluminum parts and containers. Reacts with cyanide salts or solutions of cyanide salts to generate gaseous hydrogen cyanide. Reacts exother mically with diazo compounds, dithiocarba mates, isocyanates, mercaptans, nitrides, and sulfides to generate flammable and/or toxic gases. Reacts with sulfites, nitrites, thiosulfates (to give H2S and SO3), dithionites (SO2), to generate flammable and/or toxic gases and heat. Reacts with carbonates and bicarbonates to generate a harmless gas (carbon dioxide) but still heat. Can be oxidized exothermically by strong oxidizing agents and reduced by strong reducing agents. A wide variety of products is possible. May initiate polymerization reactions or catalyze (increase the rate of) reactions among other materials.

10.4 Conditions to avoid

no data available

10.5Incompatible materials

no data available

10.6Hazardous decomposition products

When heated to decomposition it emits acrid smoke and irritating fumes.

11. Toxicological information

Acute toxicity

Oral: LD50 Kat oral 1410 mg/kg Inhalation: no data available Dermal: no data available Skin corrosion/irritation no data available Serious eye damage/irritation no data available

Respiratory or skin sensitization

no data available Germ cell mutagenicity no data available Carcinogenicity no data available Reproductive toxicity no data available STOT-single exposure no data available

STOT-repeated exposure no data available

Aspiration hazard no data available

12. Ecological information

Toxicity to fish: LC50 Brachydanio rerio 110 mg/L/96 hr /Sodium salt; conditions of bioassay not specified

Toxicity to daphnia and other aquatic invertebrates: no data available

Toxicity to algae: no data available

Toxicity to microorganisms: no data available

12.2Persistence and degradability
AEROBIC: Octanoic acid reached 43, 53, 64 and 63% of its theoretical BOD after 2, 5, 10, and 30 days, respectively using a domestic sewage inoculum and an octanoic acid concn of 3.0 ppm(1), 100% decreases in initial octanoic acid concns of 0.5 mg/L and 4.3 mg/L were observed after 21 days incubation in aerobic mixed bacterial cultures obtained from trench leachate at low-level radio active waste disposal sites in Maxey Flats, KY and West Valley, NY, respectively(2). Octanoic acid reached 60% of its theoretical oxygen demand after 5 days using a sewage seed(3). After a lag period of 2.2 days, octanoic acid present at a concn of 10.000 ppm, reached 60, 66, and 68% of its theoretical BOD after 5, 10, and 20 days, respectively using a sewage seed(4). Use of an adapted sewage seed reduced the lag period to 1.6 days, after which octanoic acid reached 60, 69, and 70% of its theoretical BOD after 5, 10, and 20 days, respectively (4). In Warburg respirometer tests using an activated sludge seed, octanoic acid, present at a concn of 500 ppm, reached 9.8, 20.4, and 32.8% of its theoretical oxygen demand after 6, 12, and 24 hours incubation, respectively(5). After 24 hours incubation, octanoic acid, present at a concn of 500 ppm, reached 5 and 59% of its theoretical oxygen demand using activated sludge inoculum from two different municipal sources(5). In a Warburg test using an activated sludge inoculum acclimated to phenol, octanoic acid, present at a concn of 500 ppm, reached 20% of its theoretical BOD after 12 hours(6). Two bacterial soil isolants were able to utilize octanoate as a growth substrate(7). A total organic carbon removal ratio of 97% was observed for octanoic acid using a non-acclimated activated sludge and an initial octanoic acid concn of 100 mg total organic carbon/L(8).

12.3Bioaccumulative potential

An estimated BCF of 3 was calculated in fish for octanoic acid(SRC), using a log Kow of 3.05(1) and a regression-derived equation(2). According to a classification scheme(3), this BCF suggests the potential for bioconcentration in aquatic organisms is low(SRC).

12.4Mobility in soil

The Koc of undissociated octanoic acid is estimated as 1,100 for the free acid(SRC), using a log Kow of 3.05(1) and a regression-derived equation(2). According to a classification scheme(3), this estimated Koc value suggests that undissociated octanoic acid is expected to have low mobility in soil. The pKa of octanoic acid is 4.89(4), indicating that this compound will exist almost entirely in the anion form in the environment and anions generally do not adsorb more strongly to soils containing organic carbon and clay than their neutral counterparts(5).

12.5Other adverse effects no data available

13. Disposal considerations

13.1Disposal methods

Product

The material can be disposed of by removal to a licensed chemical destruction plant or by controlled incineration with flue gas scrubbing. Do not contaminate water, foodstuffs, feed or seed by storage or disposal. Do not discharge to sewer systems. Contaminated packaging

Containers can be triply rinsed (or equivalent) and offered for recycling or reconditioning. Alternatively, the packaging can be punctured to make it unusable for other purposes and then be disposed of in a sanitary landfill. Controlled incineration with flue gas scrubbing is possible for combustible packaging materials.

IMDG: UN3265

IMDG: 8

IMDG: III

IMDG: no

IATA: UN3265

IATA: 8

IATA: III

IATA: no

14. Transport information

14.1UN Number

ADR/RID: UN3265

14.2UN Proper Shipping Name

ADR/RID: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. IMDG: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

IATA: CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.

14.3Transport hazard class(es)

ADR/RID: 8

14.4Packing group, if applicable

ADR/RID: III

14.5Environmental hazards

14.5Environmental hazard: ADR/RID: no

14.6Special precautions for user

no data available

14.7Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

no data available

15.Regulatory information

15.1Safety, health and environmental regulations specific for the product in question

13. 13 alety, fleathrand envi	Tonnerital regulations specific for the product in question		
Chemical name	Common names and synonyms	CAS number	EC number
octanoic acid	octanoic acid	124-07-2	none
European Inventory of Existing Commercial Chemical Substances (EINECS)			
EC Inventory			Listed.
United States Toxic Substa	nces Control Act (TSCA) Inventory		Listed.
China Catalog of Hazardou	s chemicals 2015		Not Listed.
New Zealand Inventory of C	Chemicals (NZIoC)		Listed.
Philippines Inventory of Che	emicals and Chemical Substances (PICCS)		Listed.
Vietnam National Chemical	Inventory		Listed.
Chinese Chemical Inventor	v of Existing Chemical Substances (China IECSC)		Listed

Section 16: Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.