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### 1 Identification

- Product identifier
- · Trade name: Octanoic Acid
- · Article number: 33674
- CAS Number: 124-07-2
- **EC number:** 204-677-5
- · Index number: 607-708-00-4
- **Application of the substance / the mixture** This product is for research use - Not for human or veterinary diagnostic or therapeutic use.
- · Details of the supplier of the safety data sheet
- Manufacturer/Supplier: Cayman Chemical Co. 1180 E. Ellsworth Rd. Ann Arbor, MI 48108 USA

 Information department: Product safety department
 Emergency telephone number: During normal opening times: +1 (734) 971-3335 US/CANADA: 800-424-9300

Outside US/CANADA: 703-741-5970

### 2 Hazard(s) identification

### · Classification of the substance or mixture

GHS05 Corrosion

Skin Corrosion 1C H314 Causes severe skin burns and eye damage.

Eye Damage 1 H318 Causes serious eye damage.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

- · Label elements
- · GHS label elements

The substance is classified and labeled according to the Globally Harmonized System (GHS).

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| · Hazard pictogra                   | (Contd. from page 1)   |
|-------------------------------------|--|
| $\wedge$                            |  |
| LE W                                |  |
|                                     |  |
| GHS05                               |  |
| · Signal word Da                    | nger   |
| · Hazard-determi                    | ning components of labeling:   |
| Octanoic acid                       |  |
| <ul> <li>Hazard stateme</li> </ul>  | ints   |
|                                     | vere skin burns and eye damage.  |
|                                     | aquatic life with long lasting effects.  |
| <ul> <li>Precautionary s</li> </ul> | statements   |
| P260                                | Do not breathe dusts or mists.   |
| P264                                | Wash thoroughly after handling.  |
| P273                                | Avoid release to the environment.  |
| P280                                | Wear protective gloves/protective clothing/eye protection/face protection.   |
|                                     | 31 If swallowed: Rinse mouth. Do NOT induce vomiting.  |
| P303+P361+P35                       | 53 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.                                 |
| P304+P340                           | IF INHALED: Remove person to fresh air and keep comfortable for breathing.   |
| P305+P351+P33                       | 38 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if<br>present and easy to do. Continue rinsing. |
| P310                                | Immediately call a poison center/doctor.   |
| P321                                | Specific treatment (see on this label).  |
| P363                                | Wash contaminated clothing before reuse.   |
| P405                                | Store locked up.   |
| P501                                | Dispose of contents/container in accordance with local/regional/national/international regulations.                                    |
| Classification s                    | 0  |

### Classification system: NFPA ratings (scale 0 - 4)

| INF | PA | rau | ings | (scale | U | - 4) |
|-----|----|-----|------|--------|---|------|
|     |    |     |      |        |   |      |



· HMIS-ratings (scale 0 - 4)

| HEALTH     | *3 | Health = *3    |
|------------|----|----------------|
|            | 1  | 110 1          |
| REACTIVITY | 0  | Reactivity = 0 |

#### · Other hazards

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- · vPvB: Not applicable.

### **3** Composition/information on ingredients

- · Chemical characterization: Substances
- · CAS No. Description
- 124-07-2 Octanoic acid

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### 4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

### **5 Fire-fighting measures**

- · Extinguishing media
- · Suitable extinguishing agents:

Use fire fighting measures that suit the environment.

- A solid water stream may be inefficient.
- Special hazards arising from the substance or mixture
- 67-56-1During heating or in case of fire poisonous gases are produced.
- Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

### 6 Accidental release measures

| <ul> <li>Personal precautions, protective equipment and emergency procedures<br/>Mount respiratory protective device.</li> </ul> |
|--|
| Wear protective equipment. Keep unprotected persons away.  |
| · Environmental precautions:   |
| Do not allow product to reach sewage system or any water course.   |
| Inform respective authorities in case of seepage into water course or sewage system.   |
| Do not allow to enter sewers/ surface or ground water.   |
| Methods and material for containment and cleaning up:  |
| Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).                                 |
| Use neutralizing agent.  |
| Dispose contaminated material as waste according to section 13.  |
| Ensure adequate ventilation.   |
| Reference to other sections  |
| See Section 7 for information on safe handling.  |
| See Section 8 for information on personal protection equipment.  |
| See Section 13 for disposal information.   |
| Protective Action Criteria for Chemicals   |
| · PAC-1:   |
| 30 mg/m³   |
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330 mg/m<sup>3</sup>

· PAC-3:

· PAC-2:

2,000 mg/m<sup>3</sup>

### 7 Handling and storage

- · Handling:
- **Precautions for safe handling** Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- Storage: Store in accordance with information listed on the product insert.
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see section 7.

- Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists that were valid during the creation were used as basis.
- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

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• Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

### • Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### • Eye protection:



Tightly sealed goggles

| Odor:Ranci<br>C8H1<br>C8H1Structural FormulaC8H1<br>C8H1Molecular Weight144.2<br>144.2Odor threshold:Not data<br>Not datapH-value:Not dataChange in condition<br>Melting point/Melting range:16.7 °<br>237 °<br>CFlash point:136 °<br>CFlash point:136 °<br>CFlash point:136 °<br>CFlash point:Not a<br>CDecomposition temperature:Not data<br>CDanger of explosion:ProductExplosion limits:<br>Lower:Not dataNot dataNot dataLower:Not data   | -<br>602  |
|--|---|
| Form:LiquicColor:Not deOdor:RanciStructural FormulaC8H1C8H1C8H1Molecular Weight144.2Odor threshold:Not dePH-value:Not deChange in condition16.7 °Melting point/Melting range:237 °Flash point:136 °Flash point:136 °Flammability (solid, gaseous):Not aAuto igniting:440 °Decomposition temperature:Not deDanger of explosion:ProduExplosion limits:Not deLower:Not de   | d<br>6O2<br>6O2<br>I g/mol<br>etermined.<br>etermined.<br>C (62.1 °F)<br>C (458.6 °F)<br>C (276.8 °F)<br>C (276.8 °F)<br>pplicable.<br>C (824 °F) |
| Color:Not deColor:RanciOdor:RanciStructural FormulaC8H1C8H1C8H1Molecular Weight144.2Odor threshold:Not depH-value:Not deChange in condition16.7 °Melting point/Melting range:237 °Flash point:136 °Flash point:136 °Flammability (solid, gaseous):Not alAuto igniting:440 °Decomposition temperature:Not deIgnition temperature:Not deDanger of explosion:ProduExplosion limits:Not deLower:Not de   | d<br>602<br>602<br>1 g/mol<br>etermined.<br>etermined.<br>C (62.1 °F)<br>C (458.6 °F)<br>C (276.8 °F)<br>C (276.8 °F)<br>pplicable.<br>C (824 °F) |
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| • pH-value:       Not define the second | etermined.<br>C (62.1 °F)<br>C (458.6 °F)<br>C (276.8 °F)<br>oplicable.<br>C (824 °F)   |
| <ul> <li>Change in condition<br/>Melting point/Melting range: 16.7 °<br/>Boiling point/Boiling range: 237 °</li> <li>Flash point: 136 °</li> <li>Flammability (solid, gaseous): Not a<br/>Auto igniting: 440 °</li> <li>Decomposition temperature: Not de<br/>Ignition temperature: Not de<br/>Danger of explosion: Produ</li> <li>Explosion limits:<br/>Lower: Not de</li> </ul>  | C (62.1 °F)<br>C (458.6 °F)<br>C (276.8 °F)<br>oplicable.<br>C (824 °F)   |
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| Flammability (solid, gaseous):Not aAuto igniting:440 °Decomposition temperature:Not dIgnition temperature:Not dDanger of explosion:ProductExplosion limits:Not dLower:Not d  | pplicable.<br>C (824 °F)  |
| Auto igniting:       440 °         Decomposition temperature:       Not definition temperature:         Ignition temperature:       Not definition temperature:         Danger of explosion:       Produte         Explosion limits:       Not definition temperature:         Lower:       Not definition temperature:  | с<br>С (824 °F)   |
| Decomposition temperature: Not de<br>Ignition temperature: Not de<br>Danger of explosion: Produ<br>Explosion limits:<br>Lower: Not de  |   |
| Ignition temperature:       Not defined         Danger of explosion:       Produte         Explosion limits:       Not defined         Lower:       Not defined  | etermined.  |
| Danger of explosion:       Produ         Explosion limits:       Not do  |   |
| Explosion limits:<br>Lower: Not de   | etermined.  |
| Lower: Not de  | ct does not present an explosion hazard.  |
|  |   |
| Upper: Not de  | termined.   |
|  | etermined.  |
| Vapor pressure at 20 °C (68 °F):         0.053   | 3 hPa (0 mm Hg)   |
|  | /cm³ (7.59395 lbs/gal)  |
|  | termined.   |
|  | termined.   |
| Evaporation rate Not de  | termined.   |
| • Solubility in / Miscibility with<br>Water at 20 °C (68 °F): 0.68 g   |   |

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|--------------------------------------|--|-------|
| · Partition coefficient (n-octanol/w | vater): Not determined.                    |       |
| · Viscosity:                         |  |       |
| Dynamic at 20 °C (68 °F):            | 5–6 mPas                                   |       |
| Kinematic:                           | Not determined.                            |       |
| SOLUBILITY                           | Methanol: soluble                          |       |
| VOC content:                         | 0.00 %                                     |       |
|                                      | 0.0 g/l / 0.00 lb/gal                      |       |
| Solids content:                      | 0.0 %                                      |       |
| · Other information                  | No further relevant information available. |       |

### **10 Stability and reactivity**

· Reactivity No further relevant information available.

- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- Possibility of hazardous reactions No dangerous reactions known.
- Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

### **11 Toxicological information**

· Information on toxicological effects

· Acute toxicity:

· LD/LC50 values that are relevant for classification:

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Oral LD50 10,080 mg/kg (rat)

Dermal LD50 >5,000 mg/kg (rabbit)

### Primary irritant effect:

- · on the skin: No irritant effect.
- on the eye: Strong irritant with the danger of severe eye injury.
- · Sensitization: No sensitizing effects known.
- · Additional toxicological information:

#### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

Substance is not listed.

· NTP (National Toxicology Program)

Substance is not listed.

#### OSHA-Ca (Occupational Safety & Health Administration)

Substance is not listed.

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### **12 Ecological information**

- · Toxicity
- Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- Behavior in environmental systems:
- · **Bioaccumulative potential** No further relevant information available.
- · Mobility in soil No further relevant information available.
- Ecotoxical effects:
- · Remark: Harmful to fish
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Must not reach bodies of water or drainage ditch undiluted or unneutralized.

- Harmful to aquatic organisms
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- · Other adverse effects No further relevant information available.

### **13 Disposal considerations**

· Waste treatment methods

· Recommendation:

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packagings:
- **Recommendation:** Disposal must be made according to official regulations.

| UN-Number                  |   |
|----------------------------|---|
| DOT, IMDG, IATA            | UN1760                                    |
| · UN proper shipping name  |   |
| DOT                        | Corrosive liquids, n.o.s. (Octanoic acid) |
| IMDG                       | CORROSIVE LIQUID, N.O.S. (Octanoic acid)  |
| IATA                       | Corrosive liquid, n.o.s. (Octanoic acid)  |
| Transport hazard class(es) |   |
| DOT                        |   |
|                            |   |
| CORROSIVE                  |   |
| 8                          |   |
| · Class                    | 8 Corrosive substances                    |

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|--|--|
| · Label  | 8  |
| · IMDG, IATA   |  |
| Class<br>Label   | 8 Corrosive substances<br>8  |
| <ul> <li>Packing group</li> <li>DOT, IMDG, IATA</li> </ul>   | II   |
| · Environmental hazards:   | Not applicable.  |
| <ul> <li>Special precautions for user</li> <li>Hazard identification number (Kemler code):</li> <li>EMS Number:</li> <li>Stowage Category</li> <li>Stowage Code</li> </ul> | Warning: Corrosive substances<br>80<br>F-A,S-B<br>B<br>SW2 Clear of living quarters.   |
| <ul> <li>Transport in bulk according to Annex II of<br/>MARPOL73/78 and the IBC Code</li> </ul>  | Not applicable.  |
| · Transport/Additional information:  |  |
| · DOT<br>· Quantity limitations  | On passenger aircraft/rail: 1 L<br>On cargo aircraft only: 30 L  |
| <ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>  | 1L<br>Code: E2<br>Maximum net quantity per inner packaging: 30 ml<br>Maximum net quantity per outer packaging: 500 ml  |
| · IATA<br>· Remarks:   | When sold in quantities of less than or equal to 1 ml<br>or 1 g, with an Excepted Quantity Code of<br>E1, E2, E4, or E5, this item meets the De Minim<br>Quantities exemption, per IATA 2.6.10.<br>Therefore packaging does not have to be labeled a<br>Dangerous Goods/Excepted Quantity. |
| · UN "Model Regulation":   | UN 1760 CORROSIVE LIQUID, N.O.S. (OCTANOI<br>ACID), 8, II  |

### **15 Regulatory information**

• Safety, health and environmental regulations/legislation specific for the substance or mixture No further relevant information available.

· Sara

### · Section 355 (extremely hazardous substances):

Substance is not listed.

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| <ul> <li>Section 313 (Specific toxic chemical listings):</li> </ul> |                      |
| Substance is not listed.  |                      |
| · TSCA (Toxic Substances Control Act):                              |                      |
|   | ACTIVE               |
| · Hazardous Air Pollutants  |                      |
| Substance is not listed.  |                      |
| · Proposition 65  |                      |
| · Chemicals known to cause cancer:                                  |                      |
| Substance is not listed.  |                      |
| · Chemicals known to cause reproductive toxicity for females:       |                      |
| Substance is not listed.  |                      |
| · Chemicals known to cause reproductive toxicity for males:         |                      |
| Substance is not listed.  |                      |
| · Chemicals known to cause developmental toxicity:                  |                      |
| Substance is not listed.  |                      |
| · Carcinogenic categories   |                      |
| · EPA (Environmental Protection Agency)                             |                      |
| Substance is not listed.  |                      |
| · TLV (Threshold Limit Value)                                       |                      |
| Substance is not listed.  |                      |
| · NIOSH-Ca (National Institute for Occupational Safety and Health)  |                      |
| Substance is not listed.  |                      |
| · Chemical safety assessment: A Chemical Safety Assessment has n    | ot been carried out. |

### **16 Other information**

All chemicals may pose unknown hazards and should be used with caution. This SDS applies only to the material as packaged. If this product is combined with other materials, deteriorates, or becomes contaminated, it may pose hazards not mentioned in this SDS. Cayman Chemical Company assumes no responsibility for incidental or consequential damages, including lost profits, arising from the use of these data. It shall be the user's responsibility to develop proper methods of handling and personal protection based on the actual conditions of use. While this SDS is based on technical data judged to be reliable, Cayman Chemical Company assumes no responsibility for the completeness or accuracy of the information contained herein.

- · Department issuing SDS: Environment protection department.
- · Contact: -
- · Date of preparation / last revision 06/01/2023
- Abbreviations and acronyms:
   IMDG: International Maritime Code for Dangerous Goods
   DOT: US Department of Transportation
   IATA: International Air Transport Association
   EINECS: European Inventory of Existing Commercial Chemical Substances
   CAS: Chemical Abstracts Service (division of the American Chemical Society)
   NFPA: National Fire Protection Association (USA)
   HMIS: Hazardous Materials Identification System (USA)
   VOC: Volatile Organic Compounds (USA, EU)
   LC50: Lethal concentration, 50 percent
   LD50: Lethal dose, 50 percent
  - PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative

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| NIOSH: National Institute for Occupational Safety<br>OSHA: Occupational Safety & Health<br>TLV: Threshold Limit Value<br>PEL: Permissible Exposure Limit<br>REL: Recommended Exposure Limit<br>Skin Corrosion 1C: Skin corrosion/irritation – Category 1C<br>Eye Damage 1: Serious eye damage/eye irritation – Category 1<br>Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3<br>• * Data compared to the previous version altered. | (Contd. from page 9) |
|--|----------------------|
| · · Data compared to the previous version altered.   | US -                 |