

Date of issue: 06/04/2018 Date of revision: 30/09/2020

# Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking Product identifier: Product name: Hexanoic acid SDS No. : 1418E-3 Details of the supplier of the safety data sheet Manufacturer/Supplier: KISHIDA CHEMICAL CO., LTD. Address: 3-1, Honmachibashi, Chuo-ku,Osaka ,JAPAN Division: Safety Management Dept. of Chemicals Telephone number: +81-6-6946-8061 FAX: +81-6-6946-1607 e-mail address: kagakuhinanzenkanri@kishida.co.jp 2. Hazards identification GHS classification and label elements of the product Classification of the substance or mixture **HEALTH HAZARDS** Acute toxicity (Dermal): Category 3 Acute toxicity (Inhalation): Category 4 Skin corrosion/irritation: Category 1 Serious eye damage/eye irritation: Category 1 **ENVIRONMENT HAZARDS** Hazardous to the aquatic environment (Acute): Category 3 Hazardous to the aquatic environment (Long-term): Category 3 (Note) GHS classification without description: Not classified/Classification not possible Label elements Signal word: Danger HAZARD STATEMENT Toxic in contact with skin Harmful if inhaled Causes severe skin burns and eye damage Causes serious eye damage Harmful to aquatic life Harmful to aquatic life with long lasting effects PRECAUTIONARY STATEMENT Prevention Avoid release to the environment. Do not breathe dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash contaminated parts thoroughly after handling. Wear protective gloves, protective clothing or face protection. Wear eye protection/face protection. Response Call a POISON CENTER or doctor/physician if you feel unwell. IF INHALED: Remove person to fresh air and keep comfortable for breathing.



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IF ON SKIN: Wash with plenty of soap and water.
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
Wash contaminated clothing before reuse.
Take off immediately all contaminated clothing and wash it before reuse.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
Disposal
Dispose of contents/container in accordance with local/national regulation.

 $\label{eq:composition} \textbf{3. Composition/information on ingredients}$ 

Mixture/Substance selection: Substance Ingredient name:Hexanoic acid Content (%):90(min) Chemical formula:CH3(CH2)4COOH Chemicals No, Japan:2-608 CAS No.:142-62-1 MW:116.16 ECNO:205-550-7 Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures

## IF INHALED

Remove person to fresh air and keep comfortable for breathing.

Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN (or hair)

Take off immediately all contaminated clothing. Rinse skin with water/shower.

Wash with plenty of soap and water.

If skin irritation or rash occurs: Get medical advice/attention.

# IF IN EYES

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If eye irritation persists: Get medical advice/attention.

## IF SWALLOWED

Rinse mouth. Do NOT induce vomiting.

Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media
Suitable extinguishing media
In case of fire, use foam, dry powder, CO2 to extinguish.

Unsuitable extinguishing media

Indoor firefighting equipment or outdoor firefighting equipment
Sprinkler equipment
Dry-powder firefighting equipment - except for phosphate etc.,hydrogen carbonate etc.
Straight stream water extinguisher
Water mist extinguisher
Reinforcing liquid jet extinguisher



Advice for firefighters

Bucket of water or tank of water

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Dry-powder extinguisher - except for phosphate etc., hydrogen carbonate etc.

Specific fire-fighting measures Evacuate non-essential personnel to safe area. Special protective equipment and precautions for fire-fighters Wear fire/flame resistant/retardant clothing. Wear protective gloves/protective clothing/eye protection/face protection. Firefighters should wear self-contained breathing apparatus with full face peace operated positive pressure mode. 6. Accidental release measures Personnel precautions, protective equipment and emergency procedures Ventilate area until material pick up is complete. Wear proper protective equipment. Environmental precautions Prevent spills from entering sewers, watercourses or low areas. Methods and materials for containment and cleaning up Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container. Preventive measures for secondary accident Collect spillage. 7. Handling and storage Precautions for safe handling Preventive measures (Exposure Control for handling personnel) Do not breathe dust/fume/gas/mist/vapors/spray. (Protective measures against fire and explosion) Keep away from heat/sparks/open flames/hot surfaces. - No smoking. (Exhaust/ventilator) Exhaust/ventilator should be available. (Safety treatments) Avoid contact with skin. Avoid contact with eyes. Safety Measures Use only outdoors or in a well-ventilated area. Wear protective gloves, protective clothing or face protection. Wear eye protection/face protection. When using do not eat, drink or smoke. Any incompatibilities See "10.Stability and Reactivity" Advice on general occupational hygiene Wash contaminated parts thoroughly after handling. Take off immediately all contaminated clothing and wash it before reuse. Storage Conditions for safe storage Keep container tightly closed. Store in a cool, dry place. Do not store in direct sunlight. Keep under lock and key. Container and packaging materials for safe handling Glass



#### Polyethylene

9. Physical and Chemical Properties Information on basic physical and chemical properties Physical state: Liquid Color: Colorless to pale yellow Odor: Characteristic odor Melting point/Freezing point: -3°C Boiling point or initial boiling point: (Hexanoic acid)205°C Boiling range data is not available. Flammability (gases, liquids and solids) data is not available. Lower and upper explosion limit/flammability limit: Lower explosion limit: 1.3 vol % Upper explosion limit: 9.3 vol % Flash point: (Hexanoic acid)114°C Auto-ignition temperature: (Hexanoic acid)380°C Decomposition temperature data is not available. pH data is not available. Kinematic viscosity data is not available. Solubility: Solubility in water: 1.1 g/100 ml (20°C) n-Octanol/water partition coefficient: log Pow1.88 Vapor pressure: 27 Pa (20°C) Density and/or relative density: 0.93 Relative vapor density (Air=1): 4 Relative density of the Vapor/air - mixture at 20°C (Air = 1): 1 No Particle characteristics data is not available.

10. Stability and Reactivity

Reactivity

Not available.

Chemical stability

Stable under normal storage/handling conditions.

Possibility of hazardous reactions

The substance is a weak acid. Reacts violently with acids, strong bases and oxidants. (ICSC 1167)



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Conditions to avoid Contact with incompatible materials. Contact with fire source. Incompatible materials Acids, Strong bases, Oxidizing agents Hazardous decomposition products Carbon oxides

11. Toxicological Information	
Information on toxicological effects	
Acute toxicity	
Acute toxicity (Oral)	
[GHS Cat. Japan, base data]	
(Hexanoic acid)	
rat LD50=3000mg/kg (JECFA No.40, 1998)	
Acute toxicity (Dermal)	
[GHS Cat. Japan, base data]	
(Hexanoic acid)	
rabbit LD50=630mg/kg (PATTY 5th, 2001)	
Acute toxicity (Inhalation)	
[GHS Cat. Japan, base data]	
(Hexanoic acid)	
mist: mouse LC50=2.05mg/L (BUA Report 241, 2002)	
Irritant properties	
Skin corrosion/irritation	
[GHS Cat. Japan, base data]	
(Hexanoic acid)	
rabbit (OECD TG 404, GLP) necrosis and scar formation (BUA Report 241, 2002)	
Serious eye damage/irritation	
[GHS Cat. Japan, base data]	
(Hexanoic acid)	
rabbit severe burn (PATTY 5th, 2001)	
Allergenic and sensitizing effects data is not available.	
Mutagenic effects data is not available.	
Carcinogenic effects data is not available.	
Reproductive toxicity data is not available.	
STOT	
STOT-single exposure data is not available.	
STOT-repeated exposure data is not available.	
Aspiration hazard data is not available.	

12. Ecological Information Ecotoxicity Aquatic toxicity Harmful to aquatic life Harmful to aquatic life with long lasting effects Hazardous to the aquatic environment (Acute) [GHS Cat. Japan, base data] (Hexanoic acid) Fish (fat head minnow) LC50=88mg/L/96hr (Aquire, 2010) Water solubility (Hexanoic acid)



<ul> <li>1.1 g/100 ml (20°C) (ICSC, 1998)</li> <li>Persistence and degradability <ul> <li>Persistence and degradability data is not available.</li> </ul> </li> <li>Bioaccumulative potential <ul> <li>(Hexanoic acid)</li> <li>log Pow=1.88 (ICSC, 1998)</li> </ul> </li> <li>Mobility in soil <ul> <li>Mobility in soil data is not available.</li> </ul> </li> <li>Other adverse effects <ul> <li>Ozone depleting chemical data is not available.</li> </ul> </li> </ul>	
<ul> <li>13. Disposal considerations         Description of waste residues and information on their safe handling and methods of disposal, including the disposal of any contaminated packaging         Waste treatment methods         Avoid release to the environment (- if this is not the intended use).         Dispose of contents/container in accordance with local/national regulation.     </li> </ul>	
<ul> <li>14. Transport Information <ul> <li>UN No.: 2829</li> <li>Proper Shipping Name :</li> <li>CAPROIC ACID</li> <li>Class or division : 8</li> <li>Packing group : III</li> <li>ERG GUIDE No.: 153</li> </ul> </li> <li>IMDG Code (International Maritime Dangerous Goods Regulations) <ul> <li>UN No.: 2829</li> <li>Proper Shipping Name :</li> <li>CAPROIC ACID</li> <li>Class or division : 8</li> <li>Packing group : III</li> </ul> </li> <li>IATA Dangerous Goods Regulations <ul> <li>UN No.: 2829</li> <li>Proper Shipping Name :</li> <li>CAPROIC ACID</li> <li>Class or division : 8</li> <li>Packing group : III</li> </ul> </li> <li>IATA Dangerous Goods Regulations <ul> <li>UN No.: 2829</li> <li>Proper Shipping Name :</li> <li>CAPROIC ACID</li> <li>Class or division : 8</li> <li>Hazard labels : Corrosive</li> <li>Packing group : III</li> <li>Special provisions No.: A803</li> </ul> </li> <li>Environmental hazards <ul> <li>MARPOL Annex III - Prevention of pollution by harmful substances</li> <li>Marine pollutants (yes/no) : no</li> </ul> </li> <li>Transport in bulk according to Annex II of MARPOL73/78 and IBC Code</li> <li>Noxious Liquid ; Cat. Y</li> <li>Hexanoic acid</li> </ul>	



15. Regulatory Information Safety, health and environmental regulations/legislation specific for the substance or mixture **US Federal Regulations** Chemicals listed in TSCA Inventory Hexanoic acid Other regulatory information Ensure this material in compliance with federal requirements and ensure conformity to local regulations. 16. Other information GHS classification and labelling Acute Tox. 3: H311 Toxic in contact with skin Acute Tox. 4: H332 Harmful if inhaled Skin Corr. 1: H314 Causes severe skin burns and eye damage Eye Dam. 1: H318 Causes serious eye damage Aquatic Acute 3: H402 Harmful to aquatic life Aquatic Chronic 3: H412 Harmful to aquatic life with long lasting effects **Reference Book** Globally Harmonized System of classification and labelling of chemicals, (7th revised edition, 2017), UN Recommendations on the TRANSPORT OF DANGEROUS GOODS 20th edit., 2017 UN IMDG Code, 2018 Edition (Incorporating Amendment 39-18) IATA Dangerous Goods Regulations (61th Edition) 2020 Classification, labelling and packaging of substances and mixtures (Table 3 ECNO6182012) 2016 EMERGENCY RESPONSE GUIDEBOOK (US DOT) 2020 TLVs and BEIs. (ACGIH) http://monographs.iarc.fr/ENG/Classification/index.php Supplier's data/information General Disclaimer This data sheet was created based on the information we currently have and may be revised according to new information. In addition, the precautions apply only to normal handling, and in the case of special handling, please make adequate countermeasure to maintain your safety. The data given here is based on current knowledge and experience. The purpose of this

Safety Data Sheet is to describe the products in terms of their safety requirements. The data does not signify any warranty with regard to the products' properties. The GHS classification data given here is based on current Japan official data (NITE

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