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MATERIAL SAFETY DATA SHEET

Version :01

PRODUCT NAME: OLEIC ACID

CAS Number: 112-80-1

| 1. IDENTIFICATION: | |
|-------------------------|---|
| Product Code | 91183, 93340, 98529, 99116 |
| Company Name | ADVENT CHEMBIO PRIVATE LIMITED |
| Address | W-279, MIDC, TTC INDUSTRIAL AREA, THANE-BELAPUR ROAD, RABALE, NAVI MUMBAI - 400 701. |
| E-mail | sales@adventchembio.com |
| WEBSITE | www.adventchembio.com |
| Company Phone Number | 022-27690837 |
| | |
| 2. HAZARDS IDENTIFICATI | |
| 11 | |

| Hazard classification | : | Not a hazardous substance or mixture |
|--|---|---|
| Labels elements | : | No hazard pictogram required |
| Hazard symbol | : | Not a hazardous substance or mixture |
| Signal word | : | Not a hazardous substance or mixture |
| Hazard statement | : | No hazard statement required |
| Precautionary statement | | |
| Prevention | : | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves/ protective clothing/ eye protection/ face protection. No smoking. Keep container tightly closed |
| Response | : | IF ON SKIN (or hair): Rinse skin with water/ shower. IF IN EYES: Rinse with water |
| Storage | : | Store in a dry & well-ventilated place. Keep container tightly closed. Containers which are opened must be carefully resealed and kept upright to prevent leakage. |
| Disposal | : | Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| Other hazards which do not result in GHS classification | : | This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. |

| 3. COMPOSITION/ INFORMATION ON INGRADIENTS: | | | | |
|---|------------|-----------|-----------|--|
| Ingredient | CAS Number | Percent | Hazardous | |
| Oleic Acid | 112-80-1 | NLT 99.0% | No | |



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| 4. FIRST AID MEASURES: | | |
|--|-------|---|
| 4. FINJI AID WIEAJURES: | | |
| General information | : | Get medical advice/attention if you feel unwell. Show this safety data sheet to the doctor in attendance. |
| Inhalation | : | Move to fresh air. |
| Skin contact | : | Take off immediately all contaminated clothing. Rinse skin with water/ shower. |
| Eye contact | : | Rinse out with plenty of water, remove contact lenses. |
| Most important symptoms/effects, acute and delayed | : | Not a hazardous substance or mixture |
| Indication of immediate medical attention and special treatment needed | : | No data available |
| 5. FIRE FIGHTING MEASU | RES: | |
| General information | | |
| Suitable (and unsuitable) ex | kting | uishing media |
| Suitable extinguishing media | : | Carbon dioxide (CO2) Foam Dry powder |
| Unsuitable extinguishing media | : | For this substance/mixture no limitations of extinguishing agents are given |
| Specific hazards arising from the chemical | : | Carbon oxides Combustible. Vapors are heavier than air and may spread along floors. Forms explosive mixtures with air on intense heating. Development of hazardous combustion gases or vapours possible in the event of fire. |
| • • • • • • | | |

Special protective equipment and precautions for firefighters

| Special firefighting procedures | : | Move containers from fire area if you can do so without risk. |
|--|---|--|
| Special protective equipment for fire-fighters | : | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |

6. ACCIDENTAL RELEASE MEASURES:

| Personal precautions, protective equipment and emergency procedures Methods and material for containment and cleaning | : | Advice for non-emergency personnel: Do not breathe vapors, aerosols. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures and consult an expert. Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions. Take up with liquid-absorbent material. Dispose of properly. Clean up affected area. |
|---|---|--|
| up Notification Procedures Environmental precautions | : | Prevent entry into waterways, sewer, basements or confined areas. Inform authorities if large amounts are involved. Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground. |



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| 7. HANDLING AND STORA | GE: |
|--|---|
| Precautions for safe handling | Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures agains static discharge. Wear protective gloves/protective clothing/eye Protection/ face protection. Wash hands thoroughly after handling. |
| Conditions for safe storage, including any incompatibilities | |
| 8. EXPOSURE CONTROLS I | PERSONAL PROTECTION: |
| Control parameters | |
| Appropriate engineering controls | : No data available |
| Individual protection measu | ures, such as personal protective equipment |
| General information | An eye wash and safety shower must be available in the immediate work area. Use explosion-proof ventilation equipment. |
| Eye/face protection | Wear safety glasses with side shields (or goggles). |
| Hand protection | Chemical resistant gloves. |
| Other | . Wear suitable protective clothing. |
| Respiratory protection | Not required; except in case of aerosol formation. |
| Hygiene measures | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Provide eyewash station and safety shower Avoid contact with eyes, skin, and clothing. |
| 9. PHYSICAL AND CHEMIC | AL PROPERTIES: |
| Appearance | : Clear colourless to pale yellow liquid. |
| Odor | : No data available. |
| Solubility | : Practically insoluble in water. |
| Formula | : C ₁₈ H ₃₄ O ₂ |
| Molecular Weight | : 282.46 g/mol |
| Specific Gravity | : 0.887 g/cm3 at 25°C |
| рН | : No data available. |
| % Volatiles by volume @ 21C (70F) | : No data available. |



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| Boiling Point | : | 194°-195°C | | | |
|----------------------------------|------|--|--|--|--|
| Melting Point | : | 13-14°C | | | |
| Flash Point | : | No data available. | | | |
| Vapor Density (Air=1) | : | No data available. | | | |
| Vapor Pressure | : | 1.333 @ 176°C | | | |
| Evaporation Rate (BuAc=1) | : | No data available. | | | |
| | | | | | |
| 10. STABILITY AND REACTIV | ITY: | | | | |
| Reactivity | : | Forms explosive mixtures with air on intense heating. A range from approx. 15 Kelvin below the flash point is to be rated as critical. | | | |
| Chemical stability | : | Material is stable under ambient conditions | | | |
| Possibility of hazardous | : | Violent reactions possible with: Oxidizing agents, perchloric acid | | | |
| reactions | • | Risk of explosion with: Aluminum | | | |

Conditions to avoid : Strong heating

Incompatible materials : No data available.

| Hazardous decomposition | | In the event of fire: see section 5 |
|-------------------------|---|-------------------------------------|
| products | · | in the event of file. see section 5 |

11. TOXICOLOGICAL INFORMATION:

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

| Oral Product | : | LD 50 (Rat): 25.000 mg/kg |
|---|---|----------------------------|
| Dermal Product | : | No data available. |
| Inhalation Product | : | No data available. |
| Repeated dose toxicity Product | : | No data available. |
| Skin corrosion/irritation Product | : | Rabbit- No skin irritation |
| Serious eye damage/eye irritation Product | : | Rabbit- No eye irritation. |
| Respiratory or skin sensitization Product | : | No data available. |
| Carcinogenicity Product | : | No data available. |
| IARC Monographs on the Evaluation of Carcinogenic Risks to Humans | : | No data available. |
| US. National Toxicology Program (NTP) Report on | : | No data available. |



Carcinogens

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| US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050 Germ cell mutagenicity | : | No data available. | |
|---|------|---|--|
| In vitro Product | : | No data available. | |
| Reproductive toxicity Product | : | No data available. | |
| Specific target organ toxicity - single exposure Product | : | No data available. | |
| Specific target organ toxicity - repeated exposure Product | : | No data available. | |
| Aspiration hazard Product | : | No data available. | |
| Other effects | : | None known. | |
| 12. ECOLOGICAL INFORMAT | ION | l | |
| Ecotoxicity Acute hazards to the aquatic environment Fish Product | | | |
| Daphnia and other aquatic invertebrates | : | LC50 - Pimephales promelas (fathead minnow) - 205 mg/l - 96 h EC50 - Daphnia - > 2,8 mg/l - 48 h | |
| Chronic hazards to the aquat | ic e | nvironment | |
| Fish Product | : | No data available. | |
| Aquatic invertebrates Product | : | No data available. | |
| Toxicity to Aquatic Plants Product: | : | No data available. | |
| Persistence and degradabilit | у | | |
| | | | |
| Biodegradation Product | : | No data available. | |

| | : | No data available. |
|--|---|---------------------------------------|
| Bioaccumulative potential | | |
| Bioconcentration factor (BCF) Product | : | No data available on bioaccumulation. |
| Partition coefficient n- octanol / water (log Kow) Product | : | No data available. |



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| | : No data | a available. | | | |
|--|---|---|---|--|---------------------------|
| Other adverse effects | This substance/mixture contains no components considered to be either persisten : bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) a levels of 0.1% or higher. | | | | |
| 13. DISPOSAL CONSIDERAT | TION: | | | | |
| D 1 1 1 1 | • Dischar | an trantmont or disposal may | / be subiect to nat | tional, state, or loc | al laws. Disposal |
| Disposal instructions | | nendations are based on uncon | | al. | |
| Disposal instructions | recomn | nendations are based on uncon mptied containers retain produ | taminated materia | | n after container |
| • | recomn Since ei is empt | nendations are based on uncon mptied containers retain produ | taminated materia | | n after container |
| Contaminated packaging | recomn Since ei is empt | nendations are based on uncon mptied containers retain produ | taminated materia ict residue, follow Hazard | | Marine |
| Contaminated packaging 14. TRANSPORT INFORMA | recomn Since ei is empt TION: | nendations are based on uncon mptied containers retain produ ied. UN proper shipping name | taminated materia ict residue, follow Hazard Class(es) | label warnings eve Packaging group | Marine Pollutant |
| Contaminated packaging | recomn Since ei is empt TION: | nendations are based on uncon mptied containers retain produ ied. UN proper shipping | taminated materia ict residue, follow Hazard Class(es) | label warnings eve | Marine Pollutant |
| Contaminated packaging 14. TRANSPORT INFORMA | recomn Since ei is empt TION: | nendations are based on uncon mptied containers retain produ ied. UN proper shipping name | taminated materia ict residue, follow Hazard Class(es) | label warnings eve Packaging group | Marine Pollutant ds |

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. Safety, health and environmental regulations/legislation specific for the substance or mixture No Data Available.



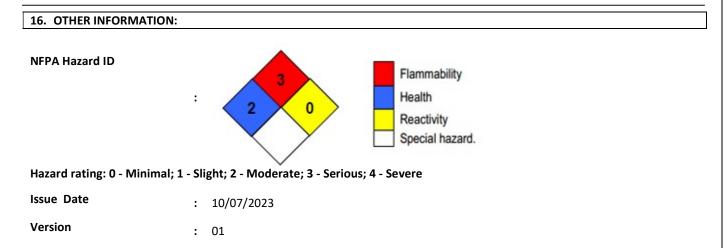
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