

Nantong Cata Chemical Technology Co., Ltd.

MATERIAL SAFETY DATA SHEET (MSDS)

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: Oleic Acid

CAS No.: 112-80-1

Supplier: Nantong Cata Chemical Technology Co., Ltd.

Address: No. 17, Huanghai Road, Coastal Economic Development Zone,

Rudong Town, Jiangsu Province, China

Postcode: 226400

Fax: 0513-81903898

Emergency Contact No.: 0513-81903555

Effective Date: March 1st, 2018

2. HAZARDS IDENTIFICATION

Invasion Approach: Inhalation, Ingestion, Skin or eyes contact

Health Hazards: May cause respiratory irritation. May cause skin or eyes

stimulated. If ingest by mistake, it will cause gastrointestinal stimulated.

Environment Hazards: Hazardous to the environment, can cause pollution to

the water.



Nantong Cata Chemical Technology Co., Ltd.

Explosion Hazards: Flammable and irritating.

3. FIRST-AID MEASURES

Skin Contact: Remove affected person from source of contamination.

Remove contaminated clothing. Wash the skin immediately with soap and

water. Get medical attention if any discomfort continues.

Eyes Contact: Make sure to remove any contact lenses from the eyes before

rinsing. Promptly wash eyes with plenty of water while lifting the eyelids.

Continue to rinse for at least 15 minutes. Get medical attention if any

discomfort continues.

Inhalation: Move the exposed person to fresh air at once. Rinse nose and

mouth with water. If breathing is difficult, administer oxygen. If not breathing,

begin artificial respiration immediately. Get medical attention if any discomfort

continues.

Ingestion: Drink enough warm water and induce vomiting. Get medical

attention if any discomfort continues.

4. FIRE-FIGHTING MEASURES

Hazard Characteristics: It will cause burning if meets with fire or under high



Nantong Cata Chemical Technology Co., Ltd.

heat. It can react with oxidants. In case of high heat, increased pressure within the container may cause cracking and explosion.

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide.

Fire-fighting Methods: Fire fighting personnel should wear full protective equipment, including self-contained breathing apparatus (SCBA) and protective clothing. Stand on the windward side when fire fighting. Move the container from the fireground to the open air if possible. Spray water to cool the container. If the containers in the fireground already changed colour or there is abnormal sound generated from the safety relief devices, all the fire fighting personnel must be evacuated immediately.

Extinguishing Media: Water fog, foam, dry powder, carbon dioxide or sandy soil.

5. ACCIDENTAL RELEASE MEASURES

Emergency Handling: Leakage of contaminated areas should be isolated, restricted access, and cut off the fire source. Emergency personnel should wear self-contained breathing apparatus (SCBA) and protective clothing. Do not have direct contact with leaks. A small leak: Absorb with sand or other inert materials. A large number of leaks: Transfer to tank or private collector with



Nantong Cata Chemical Technology Co., Ltd.

pump, recycling or remove to waste treatment sites for disposal.

6. HANDLING AND STORAGE

Operation Note: Airtight operations; keep adequate ventilation. Operating personnel must attend professional training and operate strictly according to operating instructions. Operating personnel should wear self-contained breathing apparatus (SCBA), safety glasses, protective clothing and rubber gloves. Keep away from fire and heat. No smoking in the workplace. Take explosion-proof type lighting and ventilation. Avoid generating dust. Avoid contacting with oxidants. Handle with care, and avoid damage to package and container. Prepare corresponding varieties and amount of fire fighting equipments and emergency equipments for leakage. Hazardous residual may remain in empty container.

Storage Note: Store in cool, well ventilated warehouse. Keep away from fire and heat. Should be stored separately to oxidants and avoid mixing storage. Should not be stored for too long, so as to avoid deterioration. The storage areas should be equipped with corresponding varieties and amount of fire fighting equipments and provided with the appropriate materials to deal with the leakage.



Nantong Cata Chemical Technology Co., Ltd.

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupation Exposure Limit:

MAC(mg/m³): No standard are established.

TWA(mg/m³): No standard are established.

STEL(mg/m³): No standard are established.

Engineering Controls: Sealed productive process. keep adequate ventilation.

Respiratory Protection: When concentration in air already exceed standard, wear self-supporting filter mask(full-facial mask). For emergencies, oxygen breathing apparatus are recommended to wear to rescue or escape.

Eye Protection: Wear safety glasses.

Body Protection: Wear protective clothing.

Hand Protection: Wear rubber gloves.

Other Protection: No smoking, eating and drinking in workplace. Take a shower and change clothes after finishing work. Maintain good personal hygiene.

8. PHYSICAL AND CHEMICAL PROPERTIES



Nantong Cata Chemical Technology Co., Ltd.

Appearance And Odor: Colorless or pale yellow oily liquid.

Melting Point (℃): 8

Boiling Point (°C): 350~360

Relative Density (water =1): ~ 0.89

Relative Vapor Density (air=1): No Data

Heat of Combustion (kJ/mol): No Data

Critical Temperature (℃): No Data

Critical Pressure (Mpa): No Data

Octanol/Water Partition Coefficients: No Data

Flashing Point (°C): 189

Ignition Temperature (°C): 362.8

UEL [%(V/V)]: No Data

LEL [%(V/V)]: No Data

Solubility: Insoluble in water.

Main Use: Used for making soap, lubricants, flotation agent, ointment and

oleate, etc.

9. STABILITY AND REACTIVITY

Stability: Stable.



Nantong Cata Chemical Technology Co., Ltd.

Ban Of Distribution: Strong oxidant and strong alkali.

Conditions To Avoid: High temperature, flames and sparks.

Hazardous Polymerization: Will not polymerise.

Decomposition Products: Burning will produce carbon monoxide and carbon

dioxide.

10. TOXICOLOGICAL INFORMATION

Acute Toxicity: No Data

Subacute And Chronic Toxicity: No Data

Irritation: Through skin: 15mg/3 days, moderate irritation.

Sensitization: No Data

Mutagenicity: No Data

Teratogenicity: No Data

Carcinogenicity: No Data

11. ECOLOGICAL INFORMATION

Eco-toxicity: No Data

Biodegradation: No Data

Non-biodegradation: No Data

Nantong Cata Chemical Technology Co., Ltd.

Biological Accumulation: No Data

Other Harmful Effects: The material does harm to the environment, especially

the pollution of waters.

12. DISPOSAL CONSIDERATIONS

Waste Properties: Non-dangerous

DisposalMeasures: Refer to the relevant national and local regulations before di

sposal. Incineration method recommended.

Disposal Cautions: Protect the water system from pollution.

13. TRANSPORT INFORMATION

Dangerous Goods No.: No Data

UN No.: No Data

Packing Mark: Z01

Packing Classification: No Data

Packing Method: No Data

Transportation Cautions: This product should be loaded in strict accordance

with dangerous goods load table listed in TDGC. Do check whether the

packing container is complete and sealed before transportation. Do insure the

Nantong Cata Chemical Technology Co., Ltd.

container no leak, no collapse, no fall and no damange during transportation.

Do not mix with oxidants, food chemicals, etc. The transport vehicle should be

cleaned and disinfected thoroughly, otherwise can not load other items. When

shipping, the assembly position should be far away from bedroom and kitchen,

and should be segregated from the engine room, power supply, fire, etc. Road

transport should go along the indicated lines and do not stay in residential

areas or densely populated areas.

14. REGULATION INFORMATION

Regulation Information: Safety Management Of Chemical Dangerous Goods

Ordinance and Safe Use Of Chemicals In The Workplace Regulations, make

corresponding provisions on the safe use, production, storage, transportation

and handling of hazardous chemicals.

15. OTHER INFORMATION

Preparation Department: Quality Control Department.