Revision date: 03/05/2023

SAFETY DATA SHEET

1. IDENTIFICATION

Product name:	n-Octanoic Acid
Product code:	O0027
Company:	TOKYO CHEMICAL INDUSTRY CO., LTD.
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Revision number:	2

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

PHYSICAL HAZARDS	
Corrosive to metals	Category 1
HEALTH HAZARDS	
Skin corrosion/irritation	Category 1C
Serious eye damage/eye irritation	Category 1
ENVIRONMENTAL HAZARDS	
Acute aquatic hazard	Category 3
Long-term aquatic hazard	Category 3

Label elements

Pictograms or hazard symbols

Signal word	Danger
Hazard statements	May be corrosive to metals Causes severe skin burns and eye damage Harmful to aquatic life Harmful to aquatic life with long lasting effects

Precautionary statements

[Prevention]	Keep only in original container. Do not breathe dusts or mists. Avoid release to the environment. Wash hands and face thoroughly after handling. Wear protective gloves, protective clothing, face protection.
[Response]	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or doctor. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Absorb spillage to prevent material damage.
[Storage]	Store in corrosive resistant container with a resistant inner liner. Store locked up.
[Disposal]	Dispose of contents and container in accordance with local, regional, national regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/mixture: Substance
Components: n-Octanoic Acid
Percent: >98.0%(GC)(T)
CAS RN: 124-07-2
Chemical Formula: $C_8H_{16}O_2$
Notice Through Official Gazettes Reference Number
ENCS: (2)-608
ISHL: Official announcement chemistry substance.

4. FIRST-AID MEASURES

Inhalation: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

Skin contact: Remove/Take off immediately all contaminated clothing. Gently wash with plenty of soap and water. Immediately call a POISON CENTER or doctor/physician.

Eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.Immediately call a POISON CENTER or doctor/physician.

Ingestion: Immediately call a POISON CENTER or doctor/physician. Rinse mouth. Do NOT induce vomiting.

Protection of first-aiders: A rescuer should wear personal protective equipment, such as rubber gloves and air-tight goggles.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media: Dry chemical, foam, carbon dioxide.

Unsuitable extinguishing media: Water (It may scatter and spread fire.)

Precautions for firefighters: Fire-extinguishing work is done from the windward and the suitable fire-extinguishing method according to the surrounding situation is used. Uninvolved persons should evacuate to a safe place. In case of fire in the surroundings: Remove movable containers if safe to do so.

Special protective equipment for firefighters: When extinguishing fire, be sure to wear personal protective equipment

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Entry to non-involved personnel should be controlled around the leakage area by roping off, etc.

Environmental precautions: Prevent product from entering drains.

Methods and materials for containment and cleaning up: Absorb spilled material in a suitable absorbent (e.g. rag, dry sand, earth, saw-dust). In case of large amount of spillage, contain a spill by bunding. Adhered or collected material should be promptly disposed of, in accordance with appropriate laws and regulations.

7. HANDLING AND STORAGE

Precautions for safe handling

Technical measures: Handling is performed in a well ventilated place. Wear suitable protective equipment. Prevent generation of vapour or mist. Wash hands and face thoroughly after handling.
Use a closed system if possible. Use a ventilation, local exhaust if vapour or aerosol will be generated.

Advice on safe handling: Avoid contact with skin, eyes and clothing.
Use corrosive resistant equipment.

Conditions for safe storage, including any incompatibilities

Storage conditions: Keep container tightly closed. Store in a cool and dark place.
Store locked up.
Store away from incompatible materials such as oxidizing agents.

Packaging material: Comply with laws. Keep only in original container.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering controls: Install a closed system or local exhaust. Also install safety shower and eye bath.

Control parameters: Not set up

Personal protective equipment

Respiratory protection: Half or full facepiece respirator, self-contained breathing apparatus(SCBA), supplied air respirator, etc. Use respirators approved under appropriate government standards and follow local and national regulations.

Hand protection: Impervious gloves.

Eye protection: Safety goggles. A face-shield, if the situation requires.

Skin and body protection: Impervious protective clothing. Protective boots, if the situation requires.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state (20°C):	Liquid
Form:	Clear
Colour:	Colorless - Slightly pale yellow
Odour:	Slight Unpleasant
Melting point/freezing point:	15°C (Freezing point)
Boiling point/range:	238°C
Flammability(solid, gas):	No data available
Flash point:	109°C
Autoignition temperature:	No data available
Flammability or explosive limits:	
Lower:	No data available
Upper:	No data available
pH:	No data available
Kinematic viscosity:	No data available
Vapour pressure:	0.5Pa/25°C
Solubility(ies):	
[Water]	Insoluble (0.068g/100g, 20°C)
[Other solvents]	
Miscible:	Acetonitrile
Very soluble:	Ether, Alcohols, Chloroform, Carbon tetrachloride, Petroleum ether, Acetic acid
Log Pow:	3.05
Relative density:	0.91
Vapour density:	5
Particle characteristics:	No data available

10. STABILITY AND REACTIVITY

Reactivity:	No data available
Chemical stability:	Stable under proper conditions.
Possibility of hazardous reactions:	No special reactivity has been reported.
Conditions to avoid:	No data available
Incompatible materials:	Oxidizing agents, Bases, Reducing agents
Hazardous decomposition products:	Carbon dioxide, Carbon monoxide

11. TOXICOLOGICAL INFORMATION

Acute Toxicity: ivn-mus LD50:600 mg/kg
orl-rat LD50:10080 mg/kg
skn-rbt LD50:>5 g/kg

Skin corrosion/irritation: skn-rbt 500 mg/24H MOD

Serious eye damage/irritation: No data available

Germ cell mutagenicity: cyt-nml-oth 10 mmol/L
oms-nml-oth 10 mmol/L
sln-smc 5 ppm

Carcinogenicity:

- **IARC =** No data available
- **NTP =** 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

RTECS Number: RH0175000

12. ECOLOGICAL INFORMATION

Ecotoxicity:

- **Fish:** 96h LC50:51 mg/L (Oryzias latipes)
- **Crustacea:** 48h EC50:63 mg/L (Daphnia magna)
- **Algae:** 72h EC50:39 mg/L (Selenastrum capricornutum)
  72h NOEC:9.4 mg/L (Selenastrum capricornutum)

Persistence / degradability: No data available
*The substance was determined as "Ready biodegradability" under the Chemical Substances Control Law.

Bioaccumulative potential(BCF): 3

Mobility in soil

- **Log Pow:** 3.05
- **Soil adsorption (Koc):** 1100
- **Henry's Law (PaM ^{3}/mol):** 0.08

Other adverse effects: No data available

13. DISPOSAL CONSIDERATIONS

Recycle to process, if possible. Consult your local regional authorities. You may be able to burn in a chemical incinerator equipped with an afterburner and scrubber system. Observe all federal, state and local regulations when disposing of the substance.

14. TRANSPORT INFORMATION

UN-No: 3265

Proper shipping name: Corrosive liquid, acidic, organic, n.o.s.

Hazards Class: 8: Corrosive.

Packing group: III

Specific precautionary transport measures and conditions:

15. JAPANESE REGULATORY INFORMATION

Fire Defense Law: Class-4 No.3 petroleums Dangerous grade 3 Not water-soluble fluid

Law for safety of vessels: Hazardous materials notification, Schedule form No.1 Corrosive substance

16. OTHER INFORMATION

The reference company name of written contents

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