

MATERIAL SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company

1.1. Produce identifier

Chemical name	Octyl Alcohol
Trade name	TECKNO A898, A899
CAS No.	111-87-5

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Production of alkyl amines, aluminum rolling lubricants, tertiary amines, cosmetics, ethoxylates, halides/mercaptans, polymerization stabilizers, and sulfation.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Teck Guan (China) Ltd.
 No 1 Teck Guan Road, Rugao Port, Jiangsu, China
 226532
 +86-513-8758 5000
www.teckguan.com/cn

SECTION 2: Hazards identification

2.1. GHS classification

Serious eye damage/eye irritation	Category 2
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2.2. GHS label elements

Signal word	Warning
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Hazard statement	Causes serious eye irritation
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Precautionary statement

Prevention	Wash hands thoroughly after handling. Wear suitable protective clothing and eye/face protection.
Response	IF ON SKIN: Wash with plenty of soap and water. Immediately flush eyes with plenty of water for at least 15 minutes.
Storage	No special storage precautions noted.
Disposal	Dispose of contents/container in accordance with local/regional/national/international regulations.
	Combustible liquid and vapor. May be ignited by friction, heat, spark or flames.
	Containers may explode when heated.
	May travel considerable distance to source of ignition and flash back.
	High vapor concentrations are irritating to the eyes, nose, throat, and lungs.

2.3. Other hazards

Combustible liquid and vapor. May be ignited by friction, heat, spark or flames.
 Containers may explode when heated.
 May travel considerable distance to source of ignition and flash back.

High vapor concentrations are irritating to the eyes, nose, throat, and lungs.

SECTION 3: Composition/information on ingredients

Components	CAS No.	Percent
1-OCTANOL	111-87-5	98-100
Constituents	CAS No.	Percent
1-DECANOL	112-30-1	<=2
1-HEXANOL	111-27-3	<=2

SECTION 4: First aid measures

First aid procedures

Inhalation	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
Skin	Take off immediately all contaminated clothing. Wash off with warm water and soap. Call a POISON CENTER or doctor/physician if you feel unwell. For minor skin contact, avoid spreading material on unaffected skin.
Eye	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly. Do not induce vomiting. Aspiration may cause pulmonary edema and pneumonitis. Call a physician or poison control center immediately.
Notes to physician	In case of shortness of breath, give oxygen. Keep victim warm. Symptoms may be delayed.

SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Water. Foam. Dry chemical powder. Carbon dioxide (CO2). Do not use a solid water stream as it may scatter and spread fire.

5.2. Special hazards arising from the substance or mixture

None known.

5.3. Protective equipment and precautions for firefighters

Structural firefighters protective clothing will only provide limited protection. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Move containers from fire area if you can do so without risk. In the event of fire, cool tanks with water spray. Use water spray to cool unopened containers. Cool containers exposed to flames with water until well after the fire is out. Water runoff can cause environmental damage.

SECTION 6: Accidental release measures

6.1. Personal precautions

Immediately evacuate personnel to safe areas. Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not contaminate water.

6.3. Methods and material for containment and cleaning up

Methods for containment	ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Collect spillage.
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Methods for cleaning up

Large spills: Prevent product from entering drains. Do not allow material to contaminate ground water system. Dike far ahead of spill for later disposal. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal.
Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination. Following product recovery, flush area with water.
Never return spills in original containers for re-use.

SECTION 7: Handling and storage

7.1. Handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from open flames, hot surfaces and sources of ignition. When using do not smoking. Do not taste or swallow. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin. Avoid contact with eyes. Avoid contact with clothing. Use personnel protective equipment as required. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling. Avoid release to the environment. Do not empty into drains.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Store in cool place. Store in a well-ventilated place. Keep container tightly closed. Keep in an area equipped with sprinklers. Keep out of the reach of children.

SECTION 8: Exposure controls / personal protection

8.1. Control parameters

Ensure adequate ventilation, especially in confined area.

8.2. Exposure controls

Personal protective equipment

Eye / face protection

Wear eye/face protection. Wear chemical protective equipment that is specifically recommended by the manufacturer.

Skin protection

Wear appropriate chemical resistant clothing. Chemical resistant gloves.

Respiratory protection

No personal respiratory protective equipment normally required.

General hygiene considerations

When using do not smoke. Do not get in eyes. Do not get this material in contact with skin. Wash hands after handling and before eating. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid @ 72°F (22°C)
Color	Colorless.
Odor	Fishy, Alcoholic.
Odor threshold	Not available
pH	Not available
Boiling point	399.2 – 460.4°F (204 – 237.8°C) @ 760 mmHg (101.3kPa)
Flash point	177.8 – 195.8°F (81 – 91°C) PMCC
Vapor pressure	0.071 mmHg @ 75°F (24°C)
Relative gravity	0.83@ 25/25°C
Solubility (H ₂ O)	<=0.05% @ 77°F (25°C)
Auto-ignition temperature	523.4°F (273°C)
Flammability limits in air,	Not available.

upper, % by volume

Flammability limits in air,

Not available.

lower, % by volume

SECTION 10: Stability and reactivity

10.1. Chemical stability

Material is stable under normal conditions.

10.2. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.3. Conditions to avoid

Heat, flames and sparks.

10.4. Materials to avoid

Strong oxidizing agents

10.5. Hazardous decomposition

Carbon monoxide. Toxic gas Complete combustion forms carbon dioxide and water vapor. Partial combustion forms also carbon monoxide, soot, aldehydes and ketones.

SECTION 11: Toxicological information

11.1. Toxicological data

Product	Test Results
1-OCTANOL (111-87-5)	Acute Dermal LD50 Rabbit: 2000 – 4000 mg/kg Scientific Assoc, 1976; Rel 2 Acute Dermal LD50 Rat: >5000 mg/kg Henkel, 1981; Rel 2
Constituents	Test Results
1-HEXANOL (111-27-3)	Acute Dermal LD50 Rabbit: 2530 mg/kg Acute Inhalation LC50 Mouse: > 21 mg/L 1.00 Hours Acute Oral LD50 Mouse: 1950 mg/kg Acute Oral LD50 Rat: 720 mg/kg Acute Other LD50 Mouse: 103 mg/kg
1-DECANOL (112-30-1)	Dermal Human: 4.00 hours Significantly less irritating than 20% Sodium Lauryl Sulfate (position control) Dermal Rabbit: 83 mg Severe eye irritation Dermal Rabbit: OECD Test Guidelines 404, PII=3.33 Acute Dermal LD50 Rabbit: 3560 mg/kg Acute Oral LD50 Rat: Practically non-toxic by acute oral route
Routes of exposure	Inhalation. Ingestion. Skin contact. Eye contact.
Acute effects	May be fatal if swallowed and enters airways. Toxic in contact with skin.
Local effects	Mild skin irritation
Skin corrosion / irritation	Causes irritation
Mutagenicity	Suspected of causing genetic defects
Serious eye damage/eye irritation	Causes serious eye irritation
Other information	Not available

SECTION 12: Ecological information

12.1. Ecotoxicological data

Product	Test Results
1-OCTANOL (111-87-5)	LC50 Fathead minnow (Pimephales promelas): 11.4 – 12.9 mg/L 96.00 Hours
Constituents	Test Results

1-HEXANOL (111-27-3)	LC50 Fathered minnow (Pimephales promelas): 89.7 – 106 mg/L 96.00 Hours
1-DECANOL (112-30-1)	EC50 Water flea (Daphnia magna): 11 mg/L 24.00 Hours
	LC50 Bleak (Alburnus alburnus): 7.2 mg/L 96.00 Hours
	LC50 Fathead minnow (Pimephales promelas): 2.3 mg/L 96.00 Hours
	LC50 Fathead minnow (Pimephales promelas): 2.4 mg/L 96.00 Hours
Ecotoxicity	Components of this product are hazardous to aquatic life.
Environmental effects	Harmful to aquatic organisms
Persistence / degradability	Not established
Bioaccumulation	Not established
Aquatic toxicity	Toxic to aquatic organisms

SECTION 13: Disposal considerations

13.1. Disposal methods

Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with local/regional/national/international regulations.

SECTION 14: Transport information

ADR	Not regulated as dangerous goods.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
RID	Not regulated as dangerous goods.

SECTION 15: Regulatory information

Inventory status

Country (s) or region	Inventory name	On inventory (yes/no) ¹
Australia	Australian Inventory of Chemical Substances. (AICS)	yes
Canada	Domestic Substances List (DSL)	yes
China	Inventory of Existing Chemical Substances in China(IECSC)	yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	yes
Korea	Existing Chemicals List (ECL)	yes
New Zealand	New Zealand Inventory	yes
Philippines	Philippine inventory of Chemicals and Chemical Substances (PICCS)	yes
Switzerland	Switzerland FOPH	yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	yes

¹ "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s).

SECTION 16: Other information

Disclaimer

The submission of the MSDS may be required by law, but this is not an assertion that the substance is hazardous when used in accordance with proper safety practices and normal handling procedures. Data supplied are for use only in connection with occupational safety and health.

The information contained herein has been compiled from sources considered to be dependable and is accurate to the best of the Company's knowledge. The information relates to the specific product designated herein, and does not relate to use in combination with any other material of any other process. We assume no responsibility for injury to the recipient or third persons, or for any damage to any property resulting from misuse of the controlled product.