

MATERIAL SAFETY DATA SHEET

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

1. Product

Chemical name	Capryl / Decyl Acids
Trade name	TECKNO S810
CAS No.	68937-75-7

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

Relevant identified uses

Production of cutting oils, specialty soaps, and chain terminators.

Uses advised against

None known

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 9955
www.teckguan.com/cn

SECTION 2: Hazards identification

2. GHS

Physical hazards	Not classified to physical hazards	
Health hazards	Skin corrosion/irritation	Category 1B
	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified	

2.2. GHS label elements

Signal word: Danger



Hazard statement: Causes severe skin burns and eye damage. Causes serious eye damage

Precautionary statement

Prevention

Keep away from heat/sparks/open flames/hot surfaces. – No smoking. Keep only in the original container. Do not subject to grinding/shock/friction. Ground/bond container and receiving equipment. Do not breathe mist or vapor. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling.

Response

Explosion risk in case of fire. In case of fire: Evacuate area. DO NOT fight fire when fire reaches explosives. Absorb spillage to prevent material damage. IF SWALLOWED: Rinse mouth. DO NOT induce vomiting. Take off immediately all contaminated clothing. IF ON SKIN (or hair): Remove / take off immediately all contaminated clothing. Rinse skin with water / shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove to fresh air and keep at rest in a position comfortable for

	breathing. Immediately call a POISON CENTER or doctor / physician. Wash contaminated clothing before reuse.
Storage	Store locked up. Store in corrosive resistant container with a resistant liner. Store in accordance with local / regional / national / international regulation.
Disposal	Dispose of contents/container in accordance with local / regional / national / international regulations.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

Components	CAS No.	Percent
Fatty Acids, C8	124-07-2	45-55
Fatty Acids, C10	334-48-5	45-55

SECTION 4: First aid measures

First aid procedures

Inhalation	Move to fresh air..
Skin	Wash off immediately with plenty of water for at least 15 minutes. Wash with soap and water.
Eye	Immediately flush eyes with plenty of water for at least 15 minutes. Immediately transport to hospital or eye specialist.
Ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Large quantities: Take immediately to hospital. Call a poison control center immediately.
Notes to physician	Not applicable.

SECTION 5: Fire-fighting measures

5. Suitable

Water spray. Foam. Carbon dioxide (CO₂) .

5.2. Unsuitable extinguishing media

Water. Do not use water jet as an extinguisher, as this will spread the fire.

5.3. Special hazards arising from the substance or mixture

Thermal decomposition or combustion may liberate carbon oxides and other toxic gases of vapors.

5.4. Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective clothing.

SECTION 6: Accidental release measures

6. Personal

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist. Wear suitable protective clothing, gloves and eye / face protection.

6.2. Environmental precautions

Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

6.3. Methods and material for containment and cleaning up

Large spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb is vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the MSDS.

Soak up with inert absorbent material. Put material in suitable, covered, labeled containers. Flush area with water to remove trace residue. Collect and reclaim or dispose in sealed containers at licensed water disposal site.

Or

Neutralize with alkaline material (Lime, crushed limestone, sodium bicarbonate or soda ash).

Flush area with plenty of water. Small quantities may be flushed to drains with plenty of water.

SECTION 7: Handling and storage

7. Handling

Do not breathe mist or vapor. Do not get this material in contact with eyes. Do not get this material in contact with skin. Do not get this material on clothing. Avoid prolonged exposure. Wash hands thoroughly after handling. Handle in accordance with good industrial hygiene and safety practice.

Avoid contact with eyes, skin, and clothing.

Since emptied containers retain product residue, follow label warnings even after container is emptied.

Avoid heat, sparks, open flames and other ignition sources.

7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep container tightly closed. Keep out of the reach of children. Store in a closed container away from incompatible materials.

Do not store near acids. Suitable containers: mild steel, stainless steel.

Store in closed original container in a dry place.

Avoid elevated temperatures for prolonged periods of time.

SECTION 8: Exposure controls / personal protection

8. Control

No exposure limits noted for the ingredients.

No biological exposure limits noted for the ingredients.

8.2. Exposure controls

Personal protective equipment

Eye / face protection

Wear eye / face protection. Goggles / face shield are recommended.

Skin protection

Wear appropriate chemical resistant clothing. Wear protective gloves. It may provide little or no thermal protection. Rubber or plastic gloves. Wear full protective clothing for prolonged exposure and / or high concentrations.

Respiratory protection

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators. If mist is generated (heating, spraying) and engineering controls are not sufficient, wear approved organic vapor respirator suitable for oil mist.

Hygiene measures

When using, do not eat, drink or smoke. Do not get in eyes. Do not get this material in contact with skin. Do not get this material on clothing. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9. Information on basic physical and

Appearance

Liquid @ 72°F (22°C)

Color

Water white to light yellow.

Odor	Musty, Rancid.
Odor threshold	Not available
pH	Not available
Melting point / freezing point	37.4°F (3°C)
Boiling point, initial boiling point, and boiling range	626°F (330°C)@ 760 mmHg (101.3kPa)
Flash point	275°F (135°C) PMCC
Vapor pressure	< 0.0075 mmHg @ 68°F (20°C)
Relative gravity	0.9@ 22/22°C
Solubility (H ₂ O)	789 mg/L @ 86°F (30°C)
Viscosity	8.6 mm ² /s 68°F (20°C)
Auto-ignition temperature	Not applicable.
Flammability limits in air, upper, % by volume	Not available.
Flammability limits in air, lower, % by volume	Not available.

SECTION 10: Stability and reactivity

10. Reactivity

Strong oxidizing agents.

10.2. Chemical stability

Material is stable under normal conditions.

10.3. Possibility of hazardous reactions

Hazardous polymerization does not occur.

10.4. Conditions to avoid

None known. Avoid temperatures exceeding the flash point.

10.5. Materials to avoid

Strong oxidizing agents

10.6. Hazardous decomposition

Will decompose at temperatures exceeding 200°C. Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors.

SECTION 11: Toxicological information

11. Toxicologic

Product	Test Results
FATTY ACIDS , C8 – 10 (68937-75-7)	Acute Dermal LD50 Rabbit: >= 5g/kg Acute Oral LD50 Rat: >= 10 g/kg
Acute toxicity	Causes severe skin burns and eye damage
Skin corrosion / irritation	Causes severe skin burns and eye damage.
Respiratory sensitization	Not available.
Skin sensitization	Causes skin irritation.
Germ cell mutagenicity	Not available.
Carcinogenicity	Not available.
Reproductive toxicity	Not available.
Specific target organ toxicity - single exposure	Not available.

Specific target organ toxicity	Not available.
- repeated exposure	
Aspiration hazard	Not available
Mixture versus substance information	Not available

SECTION 12: Ecological information

12. Ecotoxicologic

Product	Test Results
FATTY ACIDS , C8 - 10 (68937-75-7)	EC50 Green algae (Nitzschia closterium) : 144 mg/L 72.00 Hours EC50 Water flea (Daphnia magna) 550 mg/L 24.00 Hours LC50 Red killifish (Oryzias latipes) : 57 mg/L 96.00 Hours in freshwater LC50 Red killifish (Oryzias latipes) : 105 mg/L 96.00 Hours in seawater LC50 Bluegill (Lepomis macrochirus) : 39.9 mg/L 96.00 Hours LC50 Ide, silver or golden orfe (Leuciscus idus) : 173 mg/L 48.00 Hours

* Estimates for product may be based on additional component data not shown.

Persistence and degradability	No data is available on the degradability of this product.
Bioaccumulative potential	Mobility Not available

SECTION 13: Disposal considerations

13. Waste treatment

Dispose of the residual waste in accordance with local regulations.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Dispose of in accordance with local regulations.

13.2. Disposal methods

Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose of contents / container in accordance with local / regional / national / international regulations. Dispose of waste material according to Local, Federal, and Provincial Environmental Regulations Do not discharge into drains, water courses or onto the ground..

SECTION 14: Transport information

ADR

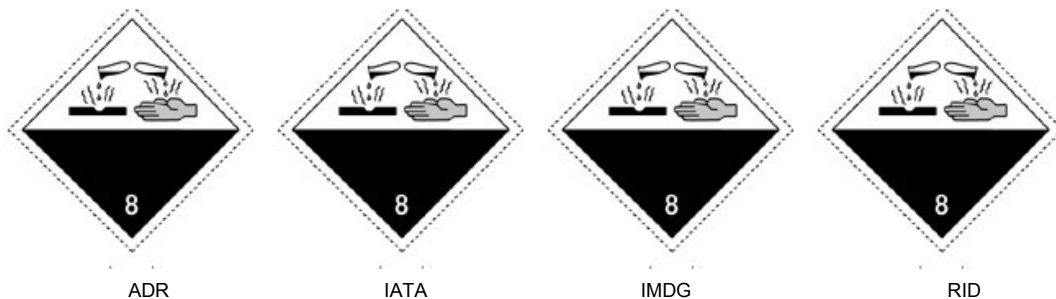
UN number	3265
Proper shipping name	Corrosive liquid, acidic, organic, n.o.s (Octanoic acid)
Hazard class	8
Subsidiary class(es)	-
Packing group	III
Environmental hazards	No
Special precautions for user	Not available

IATA

UN number	3265
Proper shipping name	Corrosive liquid, acidic, organic, n.o.s (Octanoic acid)
Hazard class	8
Subsidiary class(es)	-
Packing group	III
Environmental hazards	No
Special precautions for user	Not available

UN number 3265
 Proper shipping name Corrosive liquid, acidic, organic, n.o.s (Octanoic acid)
 Hazard class 8
 Subsidiary hazard class -
 Packing group III
 Marine pollutant No
 Special precautions for user Not available

UN number 3265
 Proper shipping name Corrosive liquid, acidic, organic, n.o.s (Octanoic acid)
 Hazard class 8
 Subsidiary hazard class -
 Packing group III
 Marine pollutant No
 Special precautions for user Not available



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	No
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

MSDS : S810EN

Version : 4.10

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procedures. Data supplied are for use only in connection with occupational safety and health.

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