

MATERIAL SAFETY DATA SHEET

Version: CLR-2018 (effective period: to 2020.12)

Section 1 COMPANY IDENTIFICATION CHEMICAL PRODUCT

Company name: Suzhou Clear Water Treatment Co.,LTD
Contact Address: Room 310, Building D, Suzhou Research Institute Xian JiaoTong University, Suzhou SIP.
Phone/Fax: +86 0512 65475565/ +86 0512 82175068-1168
Trade Name: DR2800
Chemical Name: Synthetic Propylene Glycol Hydrocarbon Mixture
Chemical Family: Synthetic Propylene Glycol Hydrocarbon Mixture
Formule: Proprietary
CAS#: 57-55-6(For basid Material)
Applications: Used as a heat transfer fluid for solar water system
Information: +86 0512 65475565
Emergence: +86 0512 65475565

Section 2 COMPOSITION/INFORMATION ON INGREDIENTS.

General: This product is Non-hazardous. The product contains no known carcinogens. No special warning label are required under OSHA29 CFR 1910.1200.

Section 3 HAZARDS IDENTIFICATION

Appearance: Clear liquid, slight pink.
Knows Hazards: This product does not required any special warning labels under OSHA 29 CFR 1910.1200 and contains no known hazardous ingredients.

Section 4 FIRST AIDS MEASURES

Eyes: Flush with clear, lukewarm water occasionally lifting eyelids. Physician assessment if eyes are inflamed.
Skin: Wash affected areas thoroughly with soap and water. Wash contaminated clothing before reuse.
Inhalation: Avoid breathing oil mists. Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given by qualified personnel if breathing is difficult. Get medical attention.
Ingestion: If swallowed, do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Has laxative effect. Get medical aid.

Notes to Physician: Persons with impaired kidney function may be more susceptible to the effects of this substance. Treat symptomatically and supportively.

Section 5 FIRE FIGHTING MEASURES

General: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion. Do not point solid water stream directly into burning fluid to avoid spreading.

Flammability: Not applicable liquid

Fire & Explosion Hazards: LOW FIRE HAZARD-Do not cut, drill, or weld empty containers.

Extinguishing Media: Water fog or fine spray. Do not use direct water stream which may spread fire. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

NFPA Rating(est.) Health: 0; Flammability: 1; Instability: 0

Section 6 ACCIDENTAL RELEASE MEASURES

General: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Clean up spills immediately, observing precautions in the Protective Equipment section. Protective ventilation.

Section 7 HANDLING AND STORAGE

Storage Temp: None(nin)/40° C(max)

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances. Store protected from moisture.

Precautions: Not for internal use. Avoid contact with skin, eyes, and clothing.

Section 8 EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower. Use adequate ventilation to keep airborne concentrations low.

Exposure Limits:

Chemical Name	ACGIH	NIOSH	OSHA	Final PELs
Propylene glycol	None listed	None listed	None listed	

Eyes Protection: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA'S eye and face protection.

Skin Protection: Wear appropriate protective gloves to prevent skin exposure.

Respirators: A respiratory protection program that meets OSHA'S 29 CFR 1910.134 and ANSI Z88.2 requirements or European EN149 must be followed whenever workplace conditions warrant a respirator's use.

Section 9 Physical and chemical properties

Physical: State Liquid
Color: pinky
Odor: Odorless
Ph: 7.5-11
Vapor Pressure: 93.54kpa(20°C)
Vapor Density: No data
Evaporation rate: 0.993
Viscosity: 7.0mm²/s(20°C)
Viscosity: 1.35mm²/s(80°C)
Boiling Point: 106°C
Freezing: -35°C
Solubility: Soluble in water
Specific Gravity: 1.115g/cm³
Flammable Limits: N/A
Combustion heat: N/A
Flash Point: 153.5°C
Ignition temperature: 159.5°C
Autoignition Temp: 371°C
Lower explosion limits: 2.5vol%
Upper explosion limits: 12.6vol%

Section 10 STABILITY AND REACTIVITY

Chemical stability: Stable under normal temperatures and pressures.
Hygroscopic absorbs moisture or water from the air.

Conditions to avoid excess: heat moist air

Incompatibilities: Strong oxidizers

Decomposition products: Carbon monoxide, carbon dioxide, aldehydes.
Hazardous: Polymerization will not occur.

Section 11

TOXICOLOGICAL INFORMATION

General Draize test, rabbit eye: 100mg MILD: 500mg/24H mild
Oral, mouse: LD50=20mg/kg; rabbit: LD50=18500mg/kg
Rat: LD50=20mg/kg
Skin, rabbit: LD=20800mg/kg
Irritant: Slight irritant to eye, skin and respiratory organs.
Carcinogenicity: Negative when tested by modified Ames Test
Not listed: By ACGIH, IARC, NIOSH, NTP, or OSHA.
Teratogenicity: Exposure are negligible.
Epidemiology: No information available.
Neurotoxicity: No information available.
Reproductive: Effects when given at 30 percent in the diet, it affected reproduction in rates. It has generally not affected fertility or reproduction, except at very high doses where effects could be attributed to nutritional deficiency.

Section 12

ECOLOGICAL INFORMATION

General: Expected to degrade relatively rapidly via biodegradation. If released to soil, relatively rapid biodegradation should also occur. Significant leaching in soil can be predicted.

Section 13

DISPOSAL CONSIDERATIONS

Waste: Disposal used product must be disposed of in accordance with local environmental control regulations. Incineration is preferred.
Genera: As in any fire, wear a self-contained breathing apparatus in.

Section 14

TRANSPORT INFORMATION

Technical Name Synthetic Propylene glycol hydrocarbon mixture
D.O.T. Hazard Class Not Regulated
U.N./N.A# Not Regulated

Section 15

REGULATORY INFORMATION

Clean Air Act this material does not contain any hazardous air pollutants.
This material does not contain any Class 1 Ozone depletors.
This material does not contain any Class 2 Ozone depletors.