



科顶化学

JIANGXI KEDING CHEMICAL MATERIAL CO.,LTD.

Add: Yuanshangang Industrial Park,Dongxiang County,Jiangxi Province,331800,P.R.China

MATERIAL SAFETY DATA SHEET

Revision Date May-22-2020

1 IDENTIFICATION

Product name: Trimethylolethane

Synonyms: 1,1,1-Tris(hydroxymethyl)ethane;1,1,1-Trimethanoethane;
2-(Hydroxymethyl)-2-methyl-1,3-propanediol,Ethylidynetrimethanol.

REACH registration number:01-2120757439-41-0002.

CAS No.:77-85-0

EINECS No.:201-063-9

Supplier: Jiangxi Keding Chemical Material Co.,Ltd.

Add:Yuanshangang Industrial Park,Dongxiang County,Jiangxi Province,331800,P,R,China

Tel: (+86)-794-4410588

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Emergency overview:

White granules with no odor. May cause eye, skin and respiratory tract irritation.

Emergency Tel: (+86)-794-4410588

2 HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Skin Corrosion/irritation	Category 2
Serious Eye Damage/Eye Irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Target Organs - Respiratory system.	

Hazard Statements

Causes skin irritation

Causes serious eye irritation

May cause respiratory irritation

Precautionary Statements

Prevention

Wash face, hands and any exposed skin thoroughly after handling



Wear protective gloves/protective clothing/eye protection/face protection

Avoid breathing dust/fume/gas/mist/vapors/spray

Use only outdoors or in a well-ventilated area

Inhalation

IF INHALED: 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

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

Eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

Storage

Store in a well-ventilated place. Keep container tightly closed

Store locked up

Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

None identified

3 COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS-No	Weight %
Trimethylolethane	77-85-0	≥96

4 FIRST AID MEASURES

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth.If breathing is difficult give oxygen. Get medical attention.

Skin Contact: Immediately flush skin with plenty of soap and water for at least 15 minutes. Get medical attention.

Eye Contact: Remove contact lenses. Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention if irritation persists. Washing within one minute is essential to achieve flushing of entire surface.

Ingestion: Do not induce vomiting. If vomiting should occur spontaneously, keep the airway clear. Get medical attention.



Notes To Physician: Treat symptomatically.

5 FIRE FIGHTING MEASURES

Suitable Extinguishing Media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media No information available

Flash Point (°C):160°C

Autoignition Temp.(°C): 405 °C

Flammable Limits in Air - Lower (%): Not Determined

Flammable Limits in Air - Upper (%): Not Determined

Explosion Limits

Upper No data available

Lower No data available

Sensitivity to Mechanical Impact No information available

Sensitivity to Static Discharge No information available

Special Exposure Hazards: Avoid creating explosive concentrations of dust. Fine powders may present dust explosion hazards.

Special Protective Equipment: Electrical grounding of equipment is required when handling powder to prevent possible dust explosion.

Hazardous Combustion Products

Thermal decomposition can lead to release of irritating gases and vapors Carbon monoxide (CO) Carbon dioxide (CO₂)

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions Ensure adequate ventilation. Use personal protective equipment. Avoid dust formation.

Environmental Precautions Do not permit solution of product into sewers or waterways.

Methods for Containment and Clean Up

Soak up small spills with inert absorbent material and place in a labeled waste container for disposal. Spills of solutions are extremely slippery so all residue must be removed promptly. Provide adequate ventilation to spill area. Wear adequate personal protective clothing and equipment

Procedure for Cleaning/Absorption: Stop leaks.Clean up spill immediately.Contain large spills and remove using a vacuum truck.Soak up small spills with inert absorbent material and place in a labeled waste container for disposal. Spills of solutions are extremely slippery so all residue must be removed promptly. Provide adequate ventilation to spill area. Wear adequate personal protective clothing and equipment.

7 HANDLING AND STORAGE



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Precautionary Statements: CAUTION! May cause irritation.

Handling: For industrial use only.

Avoid contact with eyes, skin and clothing.

Avoid generating or breathing dust.

Use only with adequate ventilation.

Use respiratory protection where dust may be generated.

Wash thoroughly after handling.

Conveying and processing equipment should be spark-proof, electrically bonded and grounded.

Keep containers tightly closed when not in use.

Keep away from heat and open flame.

Storage: Material is hygroscopic.Store in a cool, dry place away from ignition sources and open flame.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines This product does not contain any known or suspected reproductive hazards

Engineering Measures Ensure adequate ventilation, especially in confined areas. Ventilation systems. Ensure that eyewash stations and safety showers are close to the workstation location.

Personal Protective Equipment

Eye/face Protection Wear appropriate protective eyeglasses or chemical safety goggles

Skin and body protection Normal work coveralls.

Respiratory Protection Suitable respiratory protective device recommended

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

Other Personal Protection Data: Eyewash fountains and safety showers must be easily accessible.

9 PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder Solid

Color: White **Odor:**

Odorless **pH:** Not

Applicable

Specific Gravity (Water=1): Not Determined

Density @ 20° C: 48.6 lb/ft³

Boiling Point (°C): Not Determined

Flash Point: 160°C

Melting Point Range (°C): 190~203° C

Freezing Point/Range (°C): Not Determined

Vapor Pressure: <1mm Hg

Vapor Density (Air=1): Not Determined



Evaporation Rate (BuAc=1): Not Determined
Autoignition Temperature: 405 °C
Decomposition Temperature: No information available
Solubility in Water Description: Soluble
VOCs (lbs/gallon): Not Determined
Viscosity, Dynamic (Centipoise) @ 20° C: Not Determined
Molecular Formula: C₅H₁₂O₃
Molecular Weight: 120.15

10 STABILITY AND REACTIVITY

Reactive Hazard None known, based on information available
Stability Hygroscopic. Stable under normal conditions of handling, use and transportation.
Conditions to Avoid Incompatible products. Exposure to moist air or water.
Incompatible Materials Oxidizing agents, Acids, Aldehydes, Isocyanates
Hazardous Decomposition Products Carbon Monoxide and Carbon Dioxide.
Hazardous Polymerization No information available.
Hazardous Reactions None under normal processing.
Additional Guidelines: None.

11 TOXICOLOGICAL INFORMATION

Component Information

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Trimethylolethane	>5000 mg/kg (Rat)	Not listed	Not listed

Toxicologically Synergistic No information available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Irritation Irritating to eyes, respiratory system and skin

Sensitization No information available

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Component	CAS-No	IARC	NTP	ACGIH	OSHA	Mexico
Trimethylolethane	77-85-0	Not listed	Not listed	Not listed	Not listed	Not listed

Mutagenic Effects No information available
Reproductive Effects No information available.
Developmental Effects No information available.
Teratogenicity No information available.
Aspiration hazard No information available



Symptoms / effects,both acute and delayed	No information available
Endocrine Disruptor Information	No information available
Other Adverse Effects	The toxicological properties have not been fully investigated.

12 ECOLOGICAL INFORMATION

Mobility: Will likely be mobile in the environment due to its water solubility.

Persistence: This product is readily biodegradable 99%; COD \approx 1620 mg/g

Bioaccumulative: Not Determined

Ecotoxicological Information:

Acute Fish Toxicity: LC 50: >100 mg/L, 96 hrs. - analogous material

Acute Crustaceans Toxicity: EC 50: >1,000 mg/L (96 hrs.) - analogous material

Acute Algae Toxicity: Not Determined

Chemical Fate Information: Not Determined

Other Information: No ecological studies have been carried out on this product.

13 DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of product in an approved chemical waste facility or incinerate in according to official regulations. Since the emptied container retains product residue, all labeled hazard precautions must be observed. Do not put solutions containing this product into sewer systems.

14 TRANSPORTATION INFORMATION

Land Transport ADR/RID: Not regulated for transportation.

Maritime transport IMDG: Not regulated for transportation.

Air Transport ICAO and IATA: Not regulated for transportation.

15 REGULATORY INFORMATION

All of the components in the product are on the following Inventory lists: X = listed

International Inventories

Component	TSCA	DSL	NDSL	EINECS	ELINCS	NLP	PICCS	ENCS	AICS	IECSC	KECL
Trimethylolethane	X	X	-	201-063-9	-	-	X	X	X	X	X

U.S. Federal Regulations

TSCA 12(b) Not applicable

SARA 313 Not applicable

SARA 311/312 Hazard Categories

Acute Health Hazard Yes



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Chronic Health Hazard No

Fire Hazard No

Sudden Release of Pressure Hazard No

Reactive Hazard No

CWA (Clean Water Act) Not applicable

Clean Air Act Not applicable

OSHA Occupational Safety and Health Administration Not applicable

CERCLA Not applicable

California Proposition 65 This product does not contain any Proposition 65 chemicals

U.S. State Right-to-Know Regulations Not applicable

U.S. Department of Transportation

Reportable Quantity (RQ): N

DOT Marine Pollutant N

DOT Severe Marine Pollutant N

U.S. Department of Homeland Security This product does not contain any DHS chemicals.

Other International Regulations

Mexico - Grade No information available

Canada This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR

WHMIS Hazard Class D2B Toxic materials

16 OTHER INFORMATION

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Revision Date: May-22-2020

Additional Information: None.

Important Note: The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

END OF MSDS