

SAFETY DATA SHEET
according to GB/T 16483 and GB/T 17519
TRIMETHYLOLPROPANE



Version: 2.1 Revision Date: 2020/11/27 SDS Number: Date of last issue: 2020/11/27
Country / Language: CN / 6N

1. PRODUCT AND COMPANY IDENTIFICATION

Product code

Manufacturer or supplier's details

Supplier: JIANGXI KOSIN FRONTIER TECHNOLOGY CO., LTD.
Yuan Shangang Industrial Park, Dongxiang District, Fuzhou City, Jiangxi Province, China

2. HAZARDS IDENTIFICATION

Emergency Overview

| | |
|-------------------|----------|
| Appearance | : flakes |
| Colour | : white |
| Odour | : slight |

Suspected of damaging fertility or the unborn child.

GHS Classification

Reproductive toxicity : Category 2

GHS label elements

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Hazard pictograms :



Signal word : Warning

Hazard statements : H361 Suspected of damaging fertility or the unborn child.

Precautionary statements :

Prevention:

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and understood.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Physical and chemical hazards

Not classified based on available information.

Health hazards

Suspected of damaging fertility or the unborn child.

Environmental hazards

Not classified based on available information.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Substance

Hazardous components

| Chemical name | CAS-No. | Concentration (% w/w) |
|------------------------|---------|-----------------------|
| propylidynetrimethanol | 77-99-6 | >= 90 -<= 100 |

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

4. FIRST AID MEASURES

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- General advice : Do not leave the victim unattended.
- If inhaled : If unconscious, place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Wash off with plenty of water.
Get medical attention if symptoms occur.
- In case of eye contact : Remove contact lenses.
Protect unharmed eye.
If eye irritation persists, consult a specialist.
- If swallowed : Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
- Most important symptoms and effects, both acute and delayed : Suspected of damaging fertility or the unborn child.
- Notes to physician : No special measures required.
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5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : High volume water jet
- Hazardous combustion products : Carbon dioxide (CO₂)
Carbon monoxide
- Specific extinguishing methods : Standard procedure for chemical fires.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Special protective equipment for firefighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
-

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Avoid dust formation.
Use personal protective equipment.
- Environmental precautions : Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.
If the product contaminates rivers and lakes or drains inform respective authorities.
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Methods and materials for containment and cleaning up : Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).
Dispose of wastes in an approved waste disposal facility.

7. HANDLING AND STORAGE

Handling

Advice on protection against fire and explosion : Dust can form an explosive mixture in air.
Provide appropriate exhaust ventilation at places where dust is formed.
Take precautionary measures against electrostatic discharges.

Advice on safe handling : Avoid formation of respirable particles.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.

Avoidance of contact : No specific data.

Storage

Conditions for safe storage : Protect from moisture.
Electrical installations / working materials must comply with the technological safety standards.

Materials to avoid : No materials to be especially mentioned.

Recommended storage temperature : < 50 °C

Further information on storage stability : No decomposition if stored and applied as directed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Engineering measures : Handle only in a place equipped with local exhaust (or other appropriate exhaust).

Personal protective equipment

Respiratory protection : In case of dust formation particle filter.

Filter type : P2 filter

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Eye/face protection : Tightly fitting safety goggles

Skin and body protection : Dust impervious protective suit
Protective suit

Hand protection
Material : Polyvinyl chloride - PVC
Wearing time : < 60 min

Material : Natural rubber - NR
Wearing time : < 60 min

Remarks : The suitability for a specific workplace should be discussed with the producers of the protective gloves. After contamination with product change the gloves immediately and dispose of them according to relevant national and local regulations

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : flakes

Colour : white

Odour : slight

Odour Threshold : No data available

pH : No data available

Melting point/range : 58 °C

Boiling point/boiling range : 304 °C
(1,013 hPa)

Flash point : No data available

Evaporation rate : No data available

Flammability (solid, gas) : Not classified as a flammability hazard

Self-ignition : not auto-flammable

Burning number : 2 (20 °C)
Method: VDI 2263-1

3 (100 °C)
Method: VDI 2263-1

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Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : Lower explosion limit
20,000 mg/m³

Vapour pressure : < 0.1 mmHg (20 °C)

Relative vapour density : No data available

Relative density : No data available

Density : 1.08 - 1.09 g/cm³ (20 °C)

Bulk density : 600 kg/m³

Solubility(ies)
Water solubility : 1,000 g/l

Partition coefficient: n-octanol/water : No data available

Ignition temperature : 480 °C

Decomposition temperature : 370 °C
Heating rate: 3 K/min
Method: closed cup

Self-Accelerating decomposition temperature (SADT) : > 400 °C

Viscosity : No data available

Explosive properties : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Impact sensitivity : Not impact sensitive.

Molecular weight : No data available

Dust explosion class : St1

Minimum ignition energy : 10 mJ
Method: Dust explosion test in the modified Hartmann tube

10. STABILITY AND REACTIVITY

Reactivity : No specific test data related to reactivity available for this product or its ingredients.

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Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

Conditions to avoid : Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame).
Take measures to prevent the build up of electrostatic charge.

Incompatible materials : No specific data.

Hazardous decomposition products : No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

propylidynetrimehanol:

Acute oral toxicity : LD50 (Rat, male): 14,700 mg/kg
GLP: no

Acute inhalation toxicity : LC50 (Rat, male): > 0.85 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
GLP: no
Remarks: Dosage caused no mortality

Acute dermal toxicity : LD50 (Rabbit): > 10,000 mg/kg
GLP: no

Skin corrosion/irritation

Not classified based on available information.

Components:

propylidynetrimehanol:

Species: Rabbit
Exposure time: 24 h
Result: No skin irritation
GLP: no

Serious eye damage/eye irritation

Not classified based on available information.

Components:

propylidynetrimehanol:

Species: Rabbit
Result: No eye irritation
GLP: no

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Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:

propylidynetrimehanol:

Exposure routes: Skin contact

Species: Mouse

Method: OECD Test Guideline 429

Result: Did not cause sensitisation on laboratory animals.

GLP: yes

Germ cell mutagenicity

Not classified based on available information.

Components:

propylidynetrimehanol:

Genotoxicity in vitro

: Test Type: Ames test

Test system: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: Ames test

Test system: Escherichia coli

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 471

Result: negative

GLP: yes

Test Type: Chromosome aberration test in vitro

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 473

Result: negative

GLP: yes

Test Type: gene mutation test

Test system: Chinese hamster lung cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: negative

GLP: yes

Carcinogenicity

Not classified based on available information.

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Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Components:

propylidynetrimehanol:

- Effects on fertility : Species: Rat, male and female
Application Route: Oral
Dose: 12,5 - 50 - 200 - 800 mg/kg
General Toxicity - Parent: NOAEL: 200 mg/kg body weight
General Toxicity F1: NOAEL: 800 mg/kg body weight
Fertility: NOAEL: 800 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes
- Effects on foetal development : Species: Rat, female
Application Route: Oral
Duration of Single Treatment: 15 d
General Toxicity Maternal: NOAEL: 100 mg/kg body weight
Developmental Toxicity: NOAEL: 100 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes
- Species: Rabbit, female
Application Route: Oral
Duration of Single Treatment: 22 d
General Toxicity Maternal: NOAEL: \geq 450 mg/kg body weight
Developmental Toxicity: NOAEL: \geq 450 mg/kg body weight
Method: OECD Test Guideline 414
GLP: yes
- Species: Rat, male and female
Application Route: Oral
General Toxicity Maternal: NOAEL: 800 mg/kg body weight
Developmental Toxicity: NOAEL: 800 mg/kg body weight
Method: OECD Test Guideline 422
GLP: yes
- Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments., Some evidence of adverse effects on development, based on animal experiments.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicity

Components:

propylidynetrimehanol:

Species: Rat, male and female

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NOAEL: 67 mg/kg
Application Route: Oral
Exposure time: 90 d
Number of exposures: daily
Dose: 20 - 67 - 200 - 667 mg/kg
GLP: no
Remarks: Subchronic toxicity

Aspiration toxicity

Not classified based on available information.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

propylidynetrimehanol:

- Toxicity to fish : LC50 (Alburnus alburnus (Bleak)): > 1,000 mg/l
Exposure time: 96 h
Analytical monitoring: no
GLP: no
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 13,000 mg/l
End point: Immobilization
Exposure time: 48 h
GLP: no
Remarks: Fresh water
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): > 1,000 mg/l
End point: Biomass
Exposure time: 72 h
GLP: no
Remarks: Fresh water
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 1,000 mg/l
Exposure time: 21 d
GLP: no
Remarks: Fresh water
- Toxicity to microorganisms : EC50 (activated sludge): > 1,000 mg/l
Exposure time: 3 h
Method: Regulation (EC) No. 440/2008, Annex, C.11
GLP: yes
Remarks: Fresh water

Persistence and degradability

Components:

propylidynetrimehanol:

- Biodegradability : Result: Not readily biodegradable.
Biodegradation: 6 %
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Exposure time: 28 d
Method: OECD Test Guideline 301E
GLP: yes

aerobic
Result: Inherently biodegradable.
Biodegradation: 100 %
Exposure time: 28 d
Method: OECD Test Guideline 302B
GLP: yes

Bioaccumulative potential

Components:

propylidynetrimehanol:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): < 17
Method: OECD Test Guideline 305C
GLP: yes

Partition coefficient: n-octanol/water : log Pow: -0.47 (26 °C)
Method: measured

Mobility in soil

Components:

propylidynetrimehanol:

Distribution among environmental compartments : Koc: 1.499, log Koc: 0.176

Other adverse effects

Product:

Additional ecological information : No data available

Components:

propylidynetrimehanol:

Results of PBT and vPvB assessment : This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

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Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.

14. TRANSPORT INFORMATION

National Regulations

China-DG GB 6944/12668

Not regulated as a dangerous good

Transportation Notes:

- Appropriate & sufficient fire-fighting facilities and spill emergency handling apparatus should be equipped with the transport vehicles.

In case of products with explosive, flammable, self-reactive, pyrophoric, self-heating and oxidizing properties:

- Tank cars used in transport should be equipped with a grounding chain; a porous separator plate may be provided in the tank car to reduce static electricity shocks.

- The exhaust pipes of vehicles used for shipping this product must be equipped with fire retardant devices. The use of mechanical equipment or tools prone to sparking is prohibited.

- Protect against exposure to sun, rain and high temperatures during transit; in summer, transport should ideally be in the morning or evening.

- Keep away from fire, heat and high temperature zones during stopovers.

- When transporting over public roads, select routes compliant with regulations and do not stop over in residential or densely populated areas.

International Regulations

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Not applicable for product as supplied.

Hazard statements : Not dangerous cargo.
Avoid heat above +50 °C.
Has a slight odour.
Keep dry.
Keep separated from foodstuffs.

15. REGULATORY INFORMATION

National regulatory information

Further information : 1. Regulations of the Safety Administration of Dangerous Chemicals
2. Rules for classification and labeling of chemicals (GB30000.2~29)

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3. Lists of dangerous goods (GB12268)
4. Classification & code of Dangerous Goods (GB6944)
5. Safety Data Sheet for Chemical Products -Content and Order of Sections (GB/T16483)
6. Guidance on the compliance of safety data sheet for chemical products (GB/T17519)
7. Catalogue of hazardous chemicals
8. National list of hazardous waste
9. Occupational exposure limits for hazardous agents in the workplace Part 1: Chemical hazardous agents GBZ 2.1)

Other international regulations

16. OTHER INFORMATION

Full text of other abbreviations

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. 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.