



Safety Data Sheet

Report No.:SZF22042701A

Report Date : Apr.-27-2022

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SDS REPORT

PRODUCT NAME: Liquid Chalk

MODEL: ---

LOT NO.: ---

CUSTOMER NAME: Hebei Tuoyou Chemical Co.,Ltd.

UNIT ADDRESS: Gaoyi Town, Shijiazhuang City, Hebei Province, China

ZIP CODE: 051000

PREPARED BY: Suzhou ASTTEK Testing Technology Co.,Ltd.

TECHNICIAN:-----



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Section 1 - Chemical Product and Company Identification

Product Name: Liquid Chalk

Manufacturer: Hebei Tuoyou Chemical Co.,Ltd.

Add: Gaoyi Town, Shijiazhuang City, Hebei Province, China

Contact: Yelena Zhao

Emergency phone: +86-311-83952332

Fax: +86-311-83952332

E-mail: yelena@hbtuoyou.com

Suggested use of the product: Increase the friction.

Restricted use: None.

Section 2 - Hazards Identification

Fatalness grade: According to Globally Harmonized System of Classification and Labelling of Chemicals Version 8, the product is classified as follows: Flammable solid, category 2.

Pictogram:



Signal word: Warning

Invasion route: Skin, eye contact, inhalation, ingestion.

Burn & burst danger: H228 Flammable solid.

Health Hazards: Droplets and vapors produced during operation may cause irritation to skin, eyes and respiratory tract.

Environment hazards: No known significant impacts and hazards.

Prevention: P210 Keep away from heat sources/sparks/open flames/hot surfaces. No Smoking.

P212 Avoid heating or reducing desensitizer under closed condition.

P230 Keep it moist.

P233 Keep the container closed.

P240 Vessel and receiving equipment grounding.

P241 Uses explosion-proof electrical/ventilation/lighting equipment.

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

Accident response: P370+P378 In case of fire: use the appropriate extinguishing medium mentioned in part 5 of this report.

P371+P380+P375 In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

Safe storage: P401 Storage should be followed local/regional/national/international regulations.

P403+P235 Store in a well ventilated place. Keep cool.

Disposal: P501 Dispose of containers in accordance with local/regional/national/international regulations.

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Section 3 - Composition/ Information on Ingredients

Pure Admixture

Main Composition:

Chemical Name	Composition(%)	CAS No.	EC No.
Magnesium carbonate	30	39409-82-0	609-673-0
Ethanol	60	64-17-5	200-578-6
Hydroxy propyl cellulose	6	9004-64-2	618-388-0
collophony	4	8050-09-7	232-475-7

Section 4 - First Aid Measures

Skin touch: Take off contaminated clothes and rinse with flowing water. If irritation persists, seek medical attention.

Eyes touch: Lift the eyelids and rinse with normal saline. If you feel unwell, seek medical advice.

Inhalation: Leave the scene to a place with fresh air. If you feel unwell, seek medical advice.

Ingestion: Rinse mouth with water. If you feel unwell, seek medical advice.

Tips to doctors: If ingested, should consider stomach injury, avoid carbonate or bicarbonate.

Most important symptoms: May cause skin swelling, eye irritation.

Section 5 - Fire Fighting Measures

Danger characteristic: Flammable solid, high temperature and open fire under closed condition, may cause explosion.

Hazardous Combustion Products: CO, CO₂, organic decomposition gas, etc .

Fire-Fighting method & media: Firemen must wear air breathing apparatus and full body fire and gas protective clothing. In the long-distance fire fighting, on the premise of ensuring their own safety, try to move the container from the fire to the open place. Wear gas mask when putting out fire. Fire extinguishing agents: defoaming foam, dry powder, carbon dioxide and sand. It is ineffective to extinguish the fire with water, but the container can be kept cool with water.

Section 6 - Accidental Release Measures

Operator protective measures: It is suggested that emergency treatment personnel should wear self-contained positive pressure respirator and anti-static work clothes.

Emergency treatment: Small amount of leakage: wear protective equipment, plug the leakage source, remove it into the closed container after adsorption with inert material, large amount of leakage: cut off the fire source, evacuate personnel, wear protective equipment, build dam, landfill with inert material, centralized recovery and unified treatment.

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Environmental protection measures: Avoid the product directly into the environment without treatment.

Section 7 - Handling and Storage

Handling: Provide sufficient exhaust air. Operators must strictly abide by the operating procedures. It is recommended that operators wear masks, work clothes and gloves. It is forbidden to use tools that are easy to produce sparks, keep away from fire, and smoking in the workplace.

Storage: Store in a cool and ventilated warehouse. Keep away from fire and heat source. The temperature in the bin is 5-40 °C . Keep out of direct sunlight. Keep the container sealed. It should be stored separately from oxidant. The lighting, ventilation and other facilities in the warehouse shall be explosion-proof. Fire fighting equipment of corresponding variety and quantity shall be provided. The storage area shall be equipped with leakage emergency treatment equipment and suitable storage materials.

Section 8 - Exposure Controls, Personal Protection

Max admissible concentration: Ethanol (#CAS 64- 17-5):ACGIH TLV:STEL:1000ppm;

OSHA PEL:(Vacated)TWA:1000ppm,(Vacated)TWA:1900mg/m³,TWA:1000ppm,TWA:1900mg/m³;

NIOSH IDLH:IDLH:3300ppm,TWA:1000ppm,TWA:1900mg/m³.

Monitoring Methods: None.

Engineering controls: Keep cool and ventilation and shower equipment near the workshop. Use explosion proof equipment

Respiratory protection: Wear self absorption filter mask.

Eyes protection: Wear protective goggles.

Body protection: Wear working clothes.

Hands protection: Wear gloves.

Other protection: No smoking, dining and drinking water in the workplace. Keep good habit of hygiene.

Section 9 - Physical and Chemical Properties

Physical state: CREAM.

Color: White.

Odor: Alcohol-like.

Melting point/freezing point: No data.

Initial boiling point: No data.

Final boiling point: No data.

Distillation range: No data.

Flammability: No data.

Upper explosion limit: 19%v/v(Ethanol).

Lower explosion limit: 3.3%v/v(Ethanol).

Flash point: <23 °C .

Spontaneous combustion temperature: >200 °C .

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Decomposition temperature: No data.

pH: 6-8.

Kinematic viscosity: No data.

Solubility: Slight soluble in water.

Octanol water partition coefficient (logarithm): No data.

Vapor pressure: No data.

Relative density (water=1): 0.96-0.99.

Relative vapor density: No data.

Section 10 - Stability and Reactivity

Dangerous reaction: Violent reaction with oxidant may cause explosion.

Stability: Stable.

Contraindications: Strong oxidants, strong acids, alkalis.

Conditions to avoid: Strong oxidizer, corrosive material, fire source, heat source, moist air.

Decomposition products: None.

Section 11 - Toxicological Information

Acute toxicity: Ethanol (#CAS 64- 17-5):LD50(rat oral):3450mg/kg;LC50(mice inhale):39mg/L.

Skin corrosion/irritation: None.

Severe eye injury/irritation: None.

Respiratory or skin sensitization: None.

Germ cell mutagenicity: None.

Mutagenicity: None.

Reproductive toxicity: None.

Specific target organ toxicity-single exposure: None.

Specific target organ toxicity-repeated exposure: None.

Inhalation hazard: None.

Exposure route: Skin:Direct contact with liquid may cause mild skin irritation.

Eyes:Steam will irritate the eyes;liquid splashed into the eyes can also be irritating.

Inhalation:May cause respiratory tract irritation

Ingestion: It can cause human discomfort.

Section 12 - Ecological Information

Eco toxicity: Ethanol (#CAS 64- 17-5):LC50(fish):14200mg/L/96h;EC50(flea):9268mg/L/48h;

EC50(chlorella vulgaris) :275mg/L/72h.

Persistence and degradability:No data.

Biodegradable: No data.

Non biodegradable: No data.

Potential bioaccumulation: No data

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Mobility in soil: No data

Other harmful effects: No known significant effects or critical hazards.

Section 13 - Disposal Considerations

Nature of waste: Hazardous waste.

Waste disposal method: Refer to relevant national and local regulations before disposal. It can not be discarded at will. It needs to be recycled and disposed by qualified or certificated units. The spread of wastes or their entry into the soil should be avoided or minimized.

Disposal precautions: Dust shall not be formed when handling empty containers during collection, transportation and disposal. During incineration, attention should be paid to prevent secondary pollution, and the waste gas should be treated before discharge. Empty containers may contain chemical residues, even if they have been emptied, they should be handled according to the material safety data sheet & label.

Section 14- Transport Information

International Maritime Dangerous Goods Rules(IMDG CODE)

UN No.: UN3175

Official shipping name: Solids containing flammable liquid,n.o.s.(containing alcohol)

Main hazard categories: 4. 1

Marine pollutants: No

Package category: II

Packing method: Plastic bottle

International Code for the Transport of Dangerous Goods by Air(IATA-DGR)

UN No.: UN3175

Official shipping name: Solids containing flammable liquid,n.o.s.(containing alcohol)

Main hazard categories: 4. 1

Package category: II

Packing method: Plastic bottle

Agreement on the International Transport of Dangerous Goods by Road(ADR/RID)

UN No.: UN3175

Official shipping name: Solids containing flammable liquid,n.o.s.(containing alcohol)

Main hazard categories: 4. 1

Package category: II

Packing method: Plastic bottle

Shipping labels and markings:



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Transportation precautions: During transportation, the vehicle shall be equipped with corresponding variety and quantity of fire-fighting equipment and leakage emergency treatment equipment; it is better to transport in the morning and evening in summer; the tank car used for transportation shall be equipped with grounding chain, and hole partition board can be set in the tank to reduce the static electricity generated by vibration; the exhaust pipe of the vehicle carrying the goods must be equipped with fire-retardant device, and it is forbidden to use mechanical equipment and tools that are easy to produce sparks for loading and unloading; highway transportation According to the prescribed route, do not stay in residential areas; railway transportation is prohibited to slip.

Section 15-Regulatory Information

Regulatory information: The following laws, regulations and standards have made corresponding regulations on the safe use, storage, transportation, loading and unloading, classification and marking of chemicals:Occupational Disease Prevention and Control Law of the People's Republic of China (2018 revision),Environmental Protection Law of the People's Republic of China (2015 revision),GB 12268-2012 List of Dangerous Goods,GB 6944-2012 Dangerous goods classification and article number,GB 15258-2009 General rules for preparation of precautionary label for chemicals.

Section 16- Additional Information

Other information:The above information is compiled on the basis of accurate data, because this information may be applied or modified under circumstances beyond our control, and we do not bear any responsibility for this. The information provided in this safety data sheet is not guaranteed.

This safety data sheet is prepared in accordance with the GHS,United Nations Recommendations on the transport of dangerous goods, IMDG, IATA, national standards and other relevant laws, regulations and standards for hazardous chemicals management.The above laws, regulations and standards will be updated and changed regularly. In order to make the dangerous goods / chemicals comply with the latest management requirements, it is recommended to regularly review and update the safety data sheet.

This safety data sheet is prepared in Chinese and English respectively. In case of any ambiguity between the Chinese and English versions, the Chinese version shall prevail.

Abbreviation: ADR: European Agreement Concerning the International Carriage of Dangerous Goods by Road

RID: Regulations Concerning the International Carriage of Dangerous Goods by Rail

IMDG: International Maritime Dangerous Goods Rules

IATA-DGR: International Air Transport Association-Dangerous Goods Regulation

ICAO-TI: International Civil Aviation Organization

EINECS: European Inventory of Existing Chemical Substances

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CAS: Chemical Abstract No

LC50: Median lethal concentration

LD50: Median lethal dose

EC50: Median effective concentration

Preparation date: 2022.04.27

Update and modification: Version 1

Preparation standard: Part 1.5 of Globally Harmonized System of Classification and Labelling of Chemicals

Prepared by:Suzhou ASTTEK Testing Technology Co.,Ltd .

*******END*******

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