


1. Identification Of The Substance / Preparation And Company:

Product Information: 3079					
Product Number:					
Manufacturer Name, Address, Phone: Manufacturer: Guangdong Heley Chemical Technology Co., Ltd. Address: Transfer Industrial Park Dawan Town, Yunan County, Yunfu, Guangdong China TEL: +86-760-86608688					
Emergency Phone: +86-760-86608688					
Safety data Producer:	Name: Technical Center				
	Address / Phone: Transfer Industrial Park Dawan Town, Yunan County, Yunfu, Guangdong China, +86-760-86608688				
Lister:	Jinjie Liang	Assessor:	Xinqiang Liu	Issue Date	Mar., 2020
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2. Hazard Identification:

Product Hazard Class	Flammable liquid, Category 2 Acute toxicity substance, category 4 Corrode / irritate skin substance, Category 3 Serious eye damage / eye irritation substance, category 2A Specific target organ toxicity (repeated exposure), Category 2				
Pictogram	Flame Health hazard Irritate skin material				
Signal Word	Danger				

Main Hazard Components	<p>Methyl ethyl ketone</p> <p>Acetone</p> <p>Ethyl acetate</p> <p>Methyl acetate</p> <p>Dimethyl carbonate</p>
Warning For Hazard	<ol style="list-style-type: none"> 1. Highly flammable liquid and vapor. 2. Harmful if swallowed or inhaled. 3. Causes mild skin irritation. 4. Causes serious eye irritation. 5. Long-term or repeated exposure will cause damage to organs.
Prevention For Hazard	<ol style="list-style-type: none"> 1. Keep away from fire sources. No smoking. 2. Operation in well-ventilated area, closed up the container after using. 3. Wear respirator and gloves, cleaning completely after operation. 4. Waste must not dispose into the environment.
Major State	<ol style="list-style-type: none"> 1. 200ppm for 8 hours may result in fatigue, weakness and dizziness. 2. 600ppm for 8 hours may result in excitation, headache, dizziness and nausea. 3. If contact with eyes may cause irritation but will recover in 48 hours.

3. Composition / Information On Ingredients:

Mixture:

Chemical Character:			
Components	CAS No.	Content (Percentage)	NFPA Hazard Rating
Methyl ethyl ketone	78-93-3	5-10	H: 1 / F: 3 / R: 0
Dimethyl carbonate	616-38-6	30-35	H: 1 / F: 3 / R: 0

Methyl acetate	79-20-9	20-30	H: 1 / F: 3 / R: 0
Acetone	67-64-1	5-8	H: 1 / F: 3 / R: 0
Ethyl acetate	141-78-6	20-25	H: 1 / F: 3 / R: 0
Polyurethane Resin	9009-54-5	13-16	N/A

* H: Health F: Fire R: Reactivity

4. First Aid Measures:

- Emergency And First Aid Procedures:
- Inhalation: Remove to well-ventilated area. If breathing is difficult, supply artificial respiration. If not breathing, institute CPR and get medical advice.
- Skin Contact: Remove contaminated clothing immediately. Flush the contaminated skin with soap and water. Get medical attention.
- Eye Contact: Immediately flush with water. Get medical attention. Ingestion: Do not induce vomiting. Seek urgent medical advice.

Major Disease And Harm Effect: -

First-Aid Personal Protection: Wear a respirator and protective uniform.

Prompt To Doctor: -

5. Fire Fighting Measure:

Suitable Extinguishing Media: Carbon dioxide, Dry chemical, Foam.

Special Exposure Hazards: Formation of carbon monoxide.

Special Extinguishing Procedure:

Water is not preferable extinguishing medium, but water spray should be used to cool.

fire-exposed containers.

Evacuate personal to safe area.

Shut off fuel to fire if possible to do so without hazard.

Keep personnel removed from and upwind of fire.

Special Protective Equipment: Wear respiratory protection equipment and fireproof clothes.

6. Accidental Release Measures:

Personal Protection:

Evacuate non essential personnel.

Keep people without protective equipment away.

Environmental Protection: Eliminate all sources of ignition and ventilate the area.

Methods For Cleaning Up: Absorb the spilt liquid with tissue paper or sand, or collect it back for reuse. Prevent entry into the sewage system, risk of blockage due to polymer deposits.

7. Handling And Storage:

Handling:

Shut off all gas pilot and electrical(spark or hot wire) igniters and other sources of ignition during use and until all vapors(odors) are gone.

Use only in the well-ventilated areas.

Make available in the work area emergency shower and eyes wash.

Avoid contact with skin or eyes.

Storage: Store in a cool, dry, ventilated area and make sure the temperature is between 5-40°C.

Keep away from fire, heat sources and oxidant.

8. Exposure Control / Personal Protection:

Engineering Control:

Use local exhaust ventilation etc. to keep air-born concentration below exposure limit.

Control Factor

Substances	TWA(PPM)	STEL(PPM)	CEILING(PPM)
Methyl ethyl ketone	200	300	-

Acetone	750	1000	-
Ethyl acetate	400	500	-
Toluene	250	200	-

Biotic Index

Substances	LD ₅₀ (mg/kg)	LC ₅₀
Methyl ethyl ketone	3400	23520 mg/m ³ /8hrs.
Acetone	5800	50100 mg/m ³ /8hrs.
Ethyl acetate	5620	5760 mg/m ³ /8hrs.
Methyl acetate	5450	-
Dimethyl carbonate	13000	-

Personal Protection Equipment:

- Respiratory Protection: Wear a air-supplied respirator.
- Hand Protection: Wear gloves.
- Eye Protection: Wear goggles.
- Skin & Body Protection: Wear protective clothing.

Hygiene Procedures: Observe the common precautionary measures, contaminated clothes must be changes immediately. Wash hands after work is completed.

9. Physical And Chemical Properties / Characteristics:

Appearance: Viscous liquid	Form: Liquid
Color: Transparent	Odor: Irritation odor
PH value: -	Boiling Point / Boiling Range: 56-90°C
Melting Point: -	Flammability(Solid, gas): -
Decomposition Temperature: -	Flash Point: -18 °C Test Method: Close Cup
Ignition Temperature: 404°C	Exposure Limits: 1.7-16.0%
Vapor Density > air	Vapor Pressure: mmHg
Relative Gravity: g/ml	Solubility In Water: Insoluble

Odor Threshold: -	Evaporation Rate: -
Partition Coefficient(n-octanol/water, log kow): -	

10. Stability And Reactivity:

Stability: Stable.
Special Conditions Of Hazardous Reaction:
Conditions To Avoid: Keep away from flame.
Incompatibility: Strong oxidizer.
Hazardous Decomposition Products: When ignited produce toxic vapor and gas.

11. Toxicological Information:

<p>Methyl Ethyl Ketone:</p> <ul style="list-style-type: none"> • Irritation Data: Skin-rabbit: 500 mg/24 hrs, moderate; Eye-rabbit: 80 mg. • Toxicity Data: Oral-rat LD₅₀: 3400 mg/kg; Skin-rabbit LD₅₀: 6480 mg/kg; Inhalation-rat LC₅₀: 23520 mg/m³, 8 hrs. • Target Organs: Central nervous system.
<p>Acetone:</p> <ul style="list-style-type: none"> • Irritation Data: Skin-rabbit (open): 395 mg, mild; Eye-rabbit: 3950 µg, severe. • Toxicity Data: Oral-rat LD₅₀: 5800 mg/kg; Skin-rabbit LD₅₀: 20000 mg/kg; Inhalation-rat LC₅₀: 50100 mg/m³, 8hrs. • Target Organs: Central nervous system.
<p>Ethyl acetate:</p> <ul style="list-style-type: none"> • Irritation Data: Eye-human: 400 mg. • Toxicity Data: Oral-rat LD₅₀: 5620 mg/kg; Oral-rabbit LD₅₀: 4940 mg/kg; Inhalation-rat LC₅₀: 5760 mg/m³, 8hrs. • Target Organs: Central nervous system.
<p>Methyl acetate:</p> <ul style="list-style-type: none"> • Irritation Data: Eye-rabbit: 100 mg.

- Toxicity Data: Oral-rat LD₅₀: 5450 mg/kg; Oral-rabbit LD₅₀: 3700 mg/kg;
- Target Organs: Central nervous system.

Acute Toxicity:

INHALATION: May irritation to respiratory tract. Exposure to high concentrations may result in cough. Prolonged or repeated inhalation may cause allergy.

SKIN: May irritate skin.

EYES: May irritate eyes.

INGESTION: May cause irritation, weakness and headache, dizziness.

Local Effects: N/A

Sensitive: N/A

Chronic: Nervous breakdown.

Exception Effect: No

12. Ecological Information:

Ecotoxicity:

Possibility Of Environmental Impact / Move: Hazardous to water. Must not enter the waters, drains or ground.

Persistence And Degradation:

Biodegradation: Biodegradable.

Hydrolysis: Transformation due to hydrolysis is not expected to be significant.

Photolysis: Transformation due to photolysis is not expected to be significant.

Atmospheric Oxidation: Transformation due to atmospheric oxidation is not expected to be significant.

Bioaccumulative Potential: Potential to bioaccumulate is low.

Mobility In Soil: Expected to remain in water or migrate to the soil.

13. Disposal Information:

Property of waste:

Dangerous waste Industrial solid waste

Disposal Information: Discard to combustion room for atomization observing local regulations.

14. Transport Information:

The United Nations Number(UN-No.): 1133

The United Nations Shipping Name: Flammable liquid

International Transport Regulation:

LAND: RID/ADR Class 3

SEA: IMDG code Class 3

AIR: ICAO-TI/IATA-DGR Class 3

Packaging Group: PGIII

Internal Transport Regulation: -

Special Transport Way And Note: Keep away from foodstuffs, acids and alkalis. Put between 5°C and 40°C.

15. Regulation Information:

Apply Regulation:

Follow all federal, state and local regulations in your country.

Ensure this material in compliance with federal requirements and ensure conformity to local regulations.

16. Other Information:

Reference:

This safety data sheet is revised according to Globally Harmonized System of Classification and Labelling of Chemicals (GHS).