

Material Safety Data Sheet**1 Identification of the substance/preparation and of the company/undertaking****.Product details****.Trade name:** Filling solution of level vial**.Application of the substance:****.Manufacturer/Supplier:** Jinhua Botian Tools Co.,

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.Further information obtainable from: Jinhua Botian Tools Co., Ltd.**.Information in case of emergency:**

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2 Composition/information on ingredients**.Description:** Mixture of substances listed below with additions.

| Components Number | CAS Number | Approximate(%)by Wt.Or Vol. | Workplace Exposure Limit | |
|-------------------|------------|--------------------------------|---|---|
| | | | Long-term $< 8\text{-hour} > \text{ppm}$ mg.m^{-3} | Short-term (15-minute) ppm mg.m^{-3} |
| 200# Solvent oil | 64742-48-9 | 100% | -- | -- |

3 Hazards identification**GHS Classification**

Flammable liquids : Category 3

Specific target organ
systemic toxicity - single
exposure : Category 3 (Central nervous system)

Aspiration hazard : Category 2

GHS label elements

Hazard pictograms :



| | |
|--------------------------|---|
| Signal Word | : Danger |
| Hazard Statements : | H226: Flammable liquid and vapor. H305: May be harmful if swallowed and enters airways. H336: May cause drowsiness or dizziness. |
| Precautionary Statements | : Prevention: P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233: Keep container tightly closed. P240: Ground and bond container and receiving equipment. P241: Use explosion-proof electrical/ ventilating/ light equipment. P242: Use non-sparking tools. P243: Take actions to prevent static discharges. P261: Avoid breathing dust/fume/gas/mist/vapours/spray. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. Response: P331: Do NOT induce vomiting P301+310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P304+340+312: 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. P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. P370+P378: In case of fire: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide to extinguish. Storage: P403+P233: Store in a well-ventilated place. Keep container tightly closed. P403+P235: Store in a well-ventilated place. Keep cool. P405: Store locked up. Disposal: P501: Dispose of contents and container in accordance with local/regional/national /international regulations. |

4 First aid measures

Persons using these products should consult a physician or other medical professional if an accident involving these products in injury. Specific first-aid measures are as follows:

.Eye Contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

.Skin Contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Get medical attention immediately.

.Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

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

5 Fire-fighting measures

.Extinguishing Media: Dry chemical powder for small fire; Water spray, or alcohol resistant foam for large fire. Don't use water jet.

.Special Firefighting Procedures: Firefighters and others exposed to vapors or products of combustion should wear self-contained breathing apparatus. Evacuate area of unprotected personnel. Wear protective clothing.

.Unusual Fire and Explosion Hazards: In case of fire, carbon monoxide, carbon dioxide and black fume can be released.

6 Accidental release measures

.Person-related safety precautions: General Information: Use proper personal protective equipment as indicated in Section 8.
Keep unprotected persons away.

.Measures for Cleaning/Collection:

.Small Spill: Absorb the leakage with suitable inert materials.

.Large Spill: Collect the leakage by building dikes or trenches, then remove it to a sealed tanker or container by a pump and dispose it strictly according to relevant rules at last.

Additional Information:

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7 Handling and storage

.Handling:

Operators must attend professional training and must operate strictly according to related rules.

Operators should be well equipped with protective respirators, goggles and gloves.

Keep away from fire and forbid smoking in working area.

Prevent the steam from leaking into the air of working area.

Carry it carefully and lay it down lightly in order to avoid damages of packages or containers.

Equip with relevant facilities for accidental release or fire.

.Storage:

Keep container tightly sealed. Store in cool, dry place in tightly closed containers.

Ensure good ventilation at the workplace and keep ignition sources away.

Keep the temperature of the storage in a proper range.

Store away incompatible materials (e.g. Benzene, acetone, carbon tetrachloride, etc.).

Keep containers closed when they are not in use.

The storage area should be equipped with emergency equipments for leakage.

Storage class

Storage class (TRGS 510): 3: Flammable liquids

8 Exposure controls/personal protection

.Engineering Controls:

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

.Personal Protective Equipment (for workers):

.Protection of Hands:



Wear protective gloves and check them prior to each use for their proper condition.

.Protection of Eyes:



Wear tightly sealed goggles.

.Protection of Respiratory Tract:

Wear suitable respirator when high concentrations are present.

.Protection of Body:

Wear protective uniforms.

.General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all contaminated clothing.

Wash hands before breaks and eat the end of work.

Avoid contact with the eyes and skin.

.Material of Gloves:

The selection of suitable gloves not only depends on the material, but also on quality which will vary from manufacturer to manufacturer.

9 Physical and chemical properties

.General Information

| | |
|---------------|---------------------------|
| Form: | Liquid |
| Color: | Transparent and colorless |
| Odor: | Irritating |

.Change in condition

| | |
|-------------------------------------|---------------|
| Melting point/Melting range: | Not available |
| Boiling point/Boiling range: | 150~170°C |

.Flash point: $\geq 40^{\circ}\text{C}$ (closed cup) $\geq 65^{\circ}\text{C}$ (open cup)

.Self-igniting: Not available

.Danger of explosion: Not available

.Relative density: $0.76\sim 0.79\text{g/cm}^3$ (20°C)

.Vapor density: Not available

.Evaporation rate Not available

.Solubility in/Miscibility with Not available

Water: Insoluble in water

.PH-Value: Not available

.Viscosity: $\text{mm/s} \leq 2.4$ (20°C)

Dynamic: Not available

10 Stability and reactivity

.Chemical Stability: Stable under normal temperatures and pressures.

.Materials with which substance is incompatible: Benzene, acetone, carbon tetrachloride, etc

.Hazardous Polymerizations: Will not occur.

.Dangerous products of decomposition: Oxides of carbon and black fume.

.Conditions to Avoid: Avoid exposure or contact to extreme temperatures, incompatible chemicals.

11 Toxicological information

.Product Toxicity Data: Acute oral LD50 > 67000mg/kg (rat)

Skin Corrosion/Irritation: Based on available data, the classification criteria are not met.

Serious Eye Damage/Eye Irritation: Based on available data, the classification criteria are not met.

Respiratory or Skin Sensitization: No sensitization effect known.

Germ Cell Mutagenicity: Based on available data, the classification criteria are not met.

Carcinogenicity: None of the components of this product is listed as a carcinogen by IARC, NTP, US OSHA.

Reproductive Toxicity: Based on available data, the classification criteria are not met.

Specific Target Organ Toxicity - Single Exposure (Globally Harmonized System): May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure (Globally Harmonized System): Based on available data, the classification criteria are not met.

Aspiration Hazard: May be harmful if swallowed and enters airways.

.Acute Effects:

.Skin: Irritating to skin and frequent contact will cause deesterification and dermatitis.

.Inhalation: Irritating to respiratory tract and if it is inhaled in large quantity and symptoms include headache, faint or chest distress.

.Ingestion: It may cause nausea, vomiting and damage to liver and lung, if it is swallowed in large quantity.

.Chronic Effects: Long-time and repeated contact with product may do harm to central nervous system and liver.

.Cancer Information: For complete discussion of toxicology data refer to section 2.

.Other Information: Not Applicable

12 Ecological information

.Ecotoxicological effects: All work practices must be aimed at eliminating environmental contamination.

.Effect of material on plants or animals: This product is not anticipated to cause harm to plants and animals under normal operating conditions.

.Effect of material on aquatic life: DO NOT allow this product to go into aquatic life, or, it will do harm to aquatic life, especially to seaweeds.

.General Notes:

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even quantities leak into the ground.

Do not allow material to be released to the environment without proper governmental permits.

13 Disposal considerations

Dispose of in accordance with all applicable regulation.

.Waste Disposal Methods: *When no longer needed, these articles may be disposed of as permitted by local waster handling authority.*

.Uncleaned Packaging:

Disposal must be made according to official regulations.

14 Transport information

.DOT Classification for Bulk Shipments (non bulk shipments may differ): *Shipments must comply with the general duty clause of US DOT 49 CFR 172.102.*

.Proper shipping name: *Dangerous goods in machinery/apparatus*

.Hazard class number and description: *Class 9*

.UN Identification: *UN 3363*

.ICAO/IATA Class: *Not available*

.Attention:

Check whether the package is completed or sealed before transporting; make sure there are no damage and no falling down of packages during transporting; the transport vehicle should be equipped with fire-fighting equipments and emergency facilities for handling with release; do NOT transport this product together with incompatible substances; stay away from fire and areas of high temperature during stopovers.

.EPA: *The harmful gas discharged by this product must be strictly controlled.*

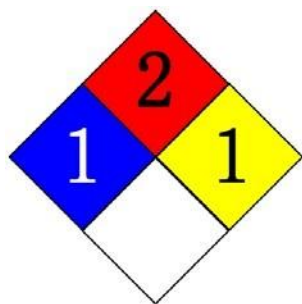
.TSCA: *Not available.*

HMIS-Rating:

| | | | | |
|----------------|--------|----------|------|---------|
| Health | 1 | | | |
| Flammability | 2 | | | |
| Reactivity | 1 | | | |
| Hazard Rating: | | | | |
| Least | Slight | Moderate | High | Extreme |
| 0 | 1 | 2 | 3 | 4 |

Health = 1; Flammability = 2; Reactivity = 1

.NFPA-Rating



Health = 1; Flammability = 2; Reactivity = 1

.California Proposition 65 = Not applicable.

.ACGIH TLV: Not classifiable as a human carcinogen.

.Risk Phrase: R10, R36/37/38, R23/25

.Safety Phrase: S15/16, S24/25, S36, S37, S39

Protective Equipment: Gloves; Lab coat; Splash goggles.

Protective respirator. Be sure to use an approved/certified respirator or equivalent.

16 Other information

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*****The End*****