

## 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company Name: Weltbild China Co., Ltd.

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Product Name: Storm glass

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## 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Flammable liquids (Category 2), H225

Eye irritation (Category 2), H319

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 GHS label elements, including precautionary statements



Pictogram(s):

Signal word: Danger

Hazard statement(s)

H225 Highly flammable liquid and vapour

H319 Causes serious eye irritation.

Precautionary statement(s)

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

none

2.3 Other hazards which do not result in classification

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## 3: COMPONENTS INFORMATION

| Chemical Name   | Proportion (%) | CAS No.    | EINECS No. |
|-----------------|----------------|------------|------------|
| Liquid fraction |                |            |            |
| Water           | 50             | 7732-18-5  | 231-791-2  |
| Ethyl Alcohol   | 30             | 64-17-5    | 200-578-6  |
| Camphor         | 10             | 76-22-2    | 200-945-0  |
| Nitrate         | 5              | 7757-79-1  | 231-818-8  |
| Chloride        | 5              | 12125-02-9 | 235-186-4  |

## 4: FIRST AID MEASURES

### 4.1 Description of necessary first-aid measures

#### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

#### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

### 4.2 Most important symptoms/effects, acute and delayed

no data available

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

no data available

## 5: FIRE FIGHTING MEASURES

### 5.1 Extinguishing media

#### Suitable extinguishing media

If material on fire or involved in fire: Do not extinguish fire unless flow can be stopped. Use water in flooding quantities as fog. Solid streams of water may be ineffective. Cool all affected containers with flooding quantities of water. Apply water from as far a distance as possible. Use "alcohol" foam, dry chemical or carbon dioxide.

## 5.2 Specific hazards arising from the chemical

Excerpt from ERG Guide 127 [Flammable Liquids (Water-Miscible)]: HIGHLY FLAMMABLE: Will be easily ignited by heat, sparks or flames. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Most vapors are heavier than air. They will spread along ground and collect in low or confined areas (sewers, basements, tanks). Vapor explosion hazard indoors, outdoors or in sewers. Those substances designated with a (P) may polymerize explosively when heated or involved in a fire. Runoff to sewer may create fire or explosion hazard. Containers may explode when heated. Many liquids are lighter than water. (ERG, 2016)

FLAMMABLE. Flashback along vapor trail may occur. Vapor may explode if ignited in an enclosed area. (USCG, 1999)

This chemical is probably combustible. (NTP, 1992)

## 5.3 Special protective actions for fire-fighters

Use water spray, powder, alcohol-resistant foam, carbon dioxide. In case of fire: keep drums, etc., cool by spraying with water.

## 6: ACCIDENTAL RELEASE MEASURES

### 6.1 Personal precautions, protective equipment and emergency procedures

Remove all ignition sources. Ventilation. Do NOT wash away into sewer. Collect leaking and spilled liquid in covered containers as far as possible. Absorb remaining liquid in inert absorbent. Wash away remainder with plenty of water. Store and dispose of according to local regulations.

### 6.2 Environmental precautions

Ventilation. Remove all ignition sources. Collect leaking and spilled liquid in sealable containers as far as possible. Wash away remainder with plenty of water.

### 6.3 Methods and materials for containment and cleaning up

Land spill: Apply appropriate foam to diminish vapor and fire hazard.

## 7: HANDLING AND STORAGE

### 7.1 Precautions for safe handling

NO open flames, NO sparks and NO smoking. Closed system, ventilation, explosion-proof electrical equipment and lighting. Do NOT use compressed air for filling, discharging, or handling. NO contact with incompatible materials: See Chemical Dangers Handling in a well ventilated place. Wear suitable protective clothing. Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Use non-sparking tools. Prevent fire caused by electrostatic discharge steam.

### 7.2 Conditions for safe storage, including any incompatibilities

Fireproof. Separated from strong oxidants. Keep tightly closed, cool and away from flame.

## 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Occupational Exposure limit values

TLV: 1000 ppm as STEL; A3 (confirmed animal carcinogen with unknown relevance to humans). MAK: 380 mg/m<sup>3</sup>, 200 ppm; peak limitation category: II (4); carcinogen category: 5; pregnancy risk group: C; germ cell mutagen group: 5

### 8.2 Appropriate engineering controls

Ensure adequate ventilation. Handle in accordance with good industrial hygiene and safety practice. Set up emergency exits and the risk-elimination area.

### 8.3 Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Wear safety goggles.

Skin protection

Protective clothing. Apron. Protective gloves.

Respiratory protection

Use ventilation, local exhaust or breathing protection.

Thermal hazards

no data available

## 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

a) Appearance: Form: Liquid

Colour: Water Clear

b) Odour: irritating odor

c) Odour Threshold: No data available

d) pH: No data available

e) Melting point/freezing point: >-100 °C

f) Initial boiling point and boiling range: >50 °C

g) Closed cup flash point: > 13 °C.

h) Evaporation rate: No data available

i) Flammability (solid, gas): No data available

j) Upper/lower flammability or explosive limits: No data available

k) Vapour pressure: No data available

l) Vapour density: No data available

m) Relative density: No data available

n) Water solubility: completely miscible

o) Partition coefficient: log Pow: No data available

n-octanol/water: No data available

p) Auto-ignition temperature: No data available

q) Decomposition temperature: No data available

- r) Viscosity: No data available
- s) Explosive properties: No data available
- t) Oxidizing properties: No data available

## 9.2 Other safety information

No data available

## 10: STABILITY AND REACTIVITY DATA

### 10.1 Reactivity

No data available

### 10.2 Chemical stability

Stable under recommended storage conditions.

### 10.3 Possibility of hazardous reactions

No data available

### 10.4 Conditions to avoid

Heat, flames and sparks.

### 10.5 Incompatible materials

Rubber, various plastics, Strong oxidizing agents

### 10.6 Hazardous decomposition products

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Carbon oxides

In the event of fire: see section 5

## 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - > 90.000 mg/kg

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 12: ECOLOGICAL INFORMATION

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

No ecological problems are to be expected when the product is handled and used with due care and attention.

Other adverse effects No further relevant information available.

## 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods Product

Taking into account local regulations the product may be disposed of as waste water after

Neutralisation

## 14: TRANSPORT INFORMATION

UN Number

ADR/RID: UN 1170

IMDG: UN 1170

IATA: UN 1170

UN proper shipping name

ADR/RID: ETHANOL

IMDG: ETHANOL SOLUTION

IATA: ETHANOL SOLUTION

SOLUTION (ETHYL ALCOHOL  
SOLUTION)

(ETHYL ALCOHOL SOLUTION)

(ETHYL ALCOHOL SOLUTION)

Transport hazard Class(es)

ADR/RID: 3

IMDG: 3

IATA: 3

Packaging group

ADR/RID: II

IMDG: II

IATA: II

Environmental hazards

IMDG Marine pollutant: No

Packing method: packing according to the method recommended by the manufacturer.

Cautions during transportation:

The transport vehicles shall be equipped with corresponding varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

It is forbidden to mix with oxidizing agents, food chemicals, etc.

The vehicle exhaust pipe must be equipped with a fire retardant device.

It is forbidden to use mechanical equipment and tools that produce spark.

In transit should be protected from sun, rain, high temperature.

Stay away from fire, heat source and high temperature area.

This report applies to by sea, by air and by land.

## 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the European Inventory of Existing Commercial Chemical Substances (EINECS): Listed.

EC Inventory: Listed.

United States Toxic Substances Control Act (TSCA) Inventory: Listed.

China Catalog of Hazardous chemicals 2015: Listed.

New Zealand Inventory of Chemicals (NZIoC): Listed.

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed.

Vietnam National Chemical Inventory: Listed.

Chinese Chemical Inventory of Existing Chemical Substances (China IECSC): Listed.

Korea Existing Chemicals List (KECL): Listed.

## 16: OTHER INFORMATION

We believe that the information contained herein is current as of the date of this Material Safety Data Sheet, and is offered in good faith. Since the use of this information and of these opinions and the conditions of the use of the product are not within the control of Technology, it is the user's obligation to determine the conditions of safe use of the product.



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