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SAFETY DATA SHEET

Product Name: GLASS DECORATION (STORM GLASS)

Revision Date: 2018-05-08

Compiler: Zhoujuefei

Checker: Dongxuesheng

Approver: Zhangxiaojin



Shanghai Research Institute of Chemical Industry Testing Centre



SAFETY DATA SHEET

GLASS DECORATION(STORM GLASS)

SECTION1 PRODUCT AND COMPANY IDENTIFICATION

Product name: GLASS DECORATION(STORM GLASS)

Company:

Address:

Email:

Fax:

Emergency Phone:

SDS Number: 2618050080

SDS Date: 2018-05-08

SECTION2 HAZARDS IDENTIFICATION

Hazards Identification:

The liquid contained in the glass shell: Classification according to GHS:

Flammable liquid (Category 3)

Eye Damage/Irritation (Category 2B)

Reproductive Toxicity (Category 1A)

Specific Target Organ Toxicity - Single Exposure (Category 1) (Blood, Central nervous system)

Specific Target Organ Toxicity - Single Exposure (Category 2) (Lung-inhaled, Peripheral nervous system)

Specific Target Organ Toxicity - Repeated Exposure (Category 1) (Blood, Systemic toxicity, Nervous system, Liver)

The hazards not mentioned are not applicable or no data available.

Emergency Overview:

The liquid contained in the glass shell:

Flammable liquid and vapour.

Causes eye irritation.

May damage fertility or the unborn child.

Causes damage to organs: Blood, Central nervous system.

May cause damage to organs: Lung-inhaled, Peripheral nervous system. Causes damage to organs through prolonged or repeated exposure: Blood, Systemic toxicity, Nervous system, Liver.

SECTION3 INFORMATION ON INGREDIENTS

Product name: GLASS DECORATION(STORM GLASS)

Ingredient

Concentration

CAS No.

EC No.

The liquid contained in the glass shell

Potassium nitrate	1.22%	7757-79-1	231-818-8
Ammonium chloride	1.22%	12125-02-9	235-186-4
Bornan-2-one	4.87%	76-22-2	200-945-0
Medical ethanol	12.19%	64-17-5	200-578-6
Distilled water	80.50%	7732-18-5	231-791-2

SECTION4 FIRST-AID MEASURES

Skin Exposure:

In case of skin contact with the liquid inside, immediately wash skin with soap and copious amounts of water. If irritation persists, call a physician.

Eye Exposure:

In case of eye contact with the liquid inside, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. If irritation persists, call a physician.

Inhalation Exposure:

In case of inhalation of the liquid inside, remove to fresh air. If breathing is difficult, give oxygen. If feel unwell, get medical attention.

Oral Exposure:

If swallowed the liquid inside, immediately wash out mouth with water provided person is conscious. Call a physician.

SECTION5 FIRE FIGHTING MEASURES

Extinguishing Media:

Suitable: Dry chemical, Water spray, Carbon dioxide or appropriate foam.

Firefighting:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Fire-extinguishing work is done from the windward. Uninvolved persons should evacuate to a safe place.

SECTION6 ACCIDENTAL RELEASE MEASURES

Procedure of Personal Precaution:

Use personal protective equipment. Keep people away from and upwind of spill/leak. Ensure adequate ventilation. Avoid breathing vapors, mist or gas. Entry to noninvolved personnel should be controlled around the leakage area by roping off, etc.

Methods for Cleaning up:

Mix with inert material (e.g. dry sand, vermiculite) and transfer to a dry, clean, lidded container for disposal. Avoid inhalation. Ventilate area and wash spill site after material pickup is complete.

Environmental precautions:

Avoid entering into drains.

SECTION7 HANDLING AND STORAGE

Handling:

Wear anti-electrostatic clothing and compatible chemical-resistant gloves. Avoid contact with eyes, skin and clothing. Avoid inhalation of vapour or mist. Keep container tightly closed. Do not expose empty containers to heat, sparks or open flames. Use only with adequate ventilation. Electrostatic charges may be generated during pumping. Ensure electrical continuity by bonding all equipment. Keep away from heat, sparks and flame. Incompatibilities: Strong oxidizing agents, Strong reducing agents, Powdered metals, Strong acids, Strong bases, Organic materials. Wash hands and face thoroughly after handling. No smoking at working site. Working place should be equipped with appropriate varieties and quantities of fire fighting equipment and leakage emergency treatment equipment.

Storage:

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Keep away from ignition sources, heat and flame. Keep away from sources of ignition. Incompatibilities: Strong oxidizing agents, Strong reducing agents, Powdered metals, Strong acids, Strong bases, Organic materials.

SECTION8 EXPOSURE CONTROL/PPE

Permissible Concentration:

Ammonium chloride: ACGIH(2009): TWA 10mg/m³; STEL 20mg/m³

Bornan-2-one: (2009): TWA 2ppm; STEL 3ppm

Engineering Controls:

Safety shower and eye bath. Mechanical exhaust required.

Personal Protective Equipment:

Respiratory: Government approved respirator.

Eye: Chemical safety goggles.

Clothing: Wear anti-electrostatic clothing.

Hand: Compatible chemical-resistant gloves.

Other Protect:

No smoking, drinking and eating at working site. Wash thoroughly after handling. Wash contaminated clothing before reuse.

SECTION9 PHYSICAL/CHEMICAL PROPERTIES

Appearance: Colorless transparent glass shell(containing colorless transparent liquid and white granule)and wood parts

The liquid
contained in the
glass shell:

Odor: Weak odor

Flash Point
(Closed Cup)/°C: 27°C

Initial Boiling 85°C

Point:

pH Value: 6.8-6.9(50g/L)

Solubility: Partial soluble in water

SECTION10 STABILITY AND REACTIVITY

Stability:

Stable under normal temperatures and pressures.

Conditions to Avoid:

Heat, flames and sparks. Extremes of temperature and direct sunlight.

Incompatible Materials:

Strong oxidizing agents, Strong reducing agents, Powdered metals, Strong acids, Strong bases, Organic materials.

Hazardous Polymerization:

Will not occur.

Hazardous Decomposition Products:

Carbon oxides, Nitrogen oxides, Ammonia, Potassium oxides, Hydrogen chloride.

SECTION11 TOXICOLOGICAL INFORMATION

The liquid contained in the glass shell:

Acute Toxicity:

Potassium nitrate: Rat Oral LD₅₀: 3750 mg/kg

Ammonium chloride: Rat Oral LD₅₀: 1650 mg/kg

Bornan-2-one: Rat Subcutaneous LD₅₀: 70 mg/kg Mouse Oral LD₅₀: 1310 mg/kg

Medical ethanol: Rat Oral LD₅₀: 7060 mg/kg Rat Inhalation LC₅₀: 20000 ppm/10H

Eye Damage/Irritation:

Causes eye irritation.

Reproductive Toxicity:

May damage fertility or the unborn child.

Specific Target Organ Toxicity -Single Exposure:

Causes damage to organs: Blood, Central nervous system.

May cause damage to organs: Lung-inhaled, Peripheral nervous system.

Specific Target Organ Toxicity -Repeated Exposure:

Causes damage to organs through prolonged or repeated exposure: Blood, Systemic toxicity, Nervous system, Liver.

SECTION12 ECOLOGICAL INFORMATION

The liquid contained in the glass shell:

Ecotoxicity:

Potassium nitrate:

Toxicity to fish static test LC₅₀ - *Poecilia reticulata* (guppy) - 1,378 mg/l - 96 h (OECD Test Guideline 203)

Toxicity to daphnia and other aquatic invertebrates EC₅₀ - *Daphnia magna* (Water flea) - 490 mg/l - 48h

Toxicity to algae static test EC₅₀ - *Nitzschia* sp. - > 1,700 mg/l - 72 h

Ammonium chloride:

Toxicity to fish LC₅₀ *Oncorhynchus mykiss* (rainbow trout): 42.91 mg/l; 96 h

Analytical monitoring: yes US-EPA

Toxicity to daphnia and other aquatic invertebrates static test EC₅₀ *Daphnia magna* (Water flea): > 100 mg/l; 48 h

Analytical monitoring: yes (ECHA)

Toxicity to bacteria static test EC₅₀ activated sludge: 1,310 mg/l; 0.5 h (OECD Test Guideline 209)

Toxicity to fish (Chronic toxicity) flow-through test EC₁₀ *Lepomis macrochirus* (Bluegill sunfish): 4.28 mg/l; 30 d

Analytical monitoring: yes (ECHA)

Bornan-2-one:

Toxicity to fish - *Pimephales promelas* (fathead minnow) - 110 mg/l - 96 h

Medical ethanol:

Toxicity to fish LC₅₀ - *Pimephales promelas* (fathead minnow) - 14,200 mg/l - 96 h

Toxicity to daphnia and other aquatic invertebrates LC₅₀ - *Ceriodaphnia dubia* (water flea) - 5,012 mg/l - 48 h

NOEC - *Daphnia magna* (Water flea) - 9.6 mg/l - 9 d

Toxicity to algae EC₅₀ - *Chlorella vulgaris* (Fresh water algae) - 275 mg/l - 72 h (OECD Test Guideline 201)

Persistence and Degradability:

Bornan-2-one:

Biodegradability aerobic - Exposure time 28 d

Result: 77 % - Readily biodegradable (OECD Test Guideline 301F)

Medical ethanol:

Biodegradability Result: 95 % - Readily biodegradable

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

SECTION13 DISPOSAL CONSIDERATION

Appropriate Method of Disposal of Substance:

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

SECTION14 TRANSPORT INFORMATION

RID/ADR:

Proper Shipping Name: Dangerous goods in apparatus

Hazard Class: 9

UN Number: 3363

Packing Group: III

IATA:

Proper Shipping Name: Dangerous goods in apparatus

Hazard Class: 9

UN Number: 3363

Packing Group: III

IMO: Proper Shipping Name: Dangerous goods in apparatus
Hazard Class: 9
UN Number: 3363
Packing Group: III

SECTION15 REGULATORY INFORMATION

Regulation (EC) No 1272/2008 and the amendments:

The liquid contained in the glass shell:

Flammable liquid (Category 3)

Reproductive Toxicity (Category 1A)

Specific Target Organ Toxicity - Single Exposure (Category 1) (Blood, Central nervous system)

Specific Target Organ Toxicity - Single Exposure (Category 2) (Lung-inhaled, Peripheral nervous system)

Specific Target Organ Toxicity - Repeated Exposure (Category 1) (Blood, Systemic toxicity, Nervous system, Liver)

SECTION16 OTHER INFORMATION

Date:

2018-05-08

Department:

Shanghai Research Institute of Chemical Industry Testing Centre

Tel (Fax) : 8621-52815377/52800971/52807275/52811034/52569800

Revision:

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Other Information:

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