

Majestic Solutions

Shield Trim

MSDS Number: Shield Trim

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PRODUCT AND COMPANY IDENTIFICATION

Manufacturer

Majestic Solutions
1001 Corporation Dr Suite 110
Raleigh, NC 27610

Contact

Telephone Number : 919-212-5657

Product Name: Shield Trim
Revision Date: January 09,2023
Version:
MSDS Number: Shield Trim
Common Name: Multi-purpose Surface Protection Coating
CAS Number: Proprietary Formulation
Product Code: Shield Trim
Product Use: Consumer Market, Car Care Market, And Commercial Market

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HAZARDS IDENTIFICATION



Signal Word: WARNING! - FOR
HEALTH EFFECTS (Acute and
Chronic): SEE SECTION 11

The most important effect of health effects Hazard: Mild irritation of the eyes and upper respiratory tract, liquid contact with eyes can cause severe irritation. High concentration Degrees can cause headaches, nausea and other symptoms; a lot of exposure can cause loss of consciousness and death.

Swallowing or vomiting may cause down into the lungs.

Environmental Impact: highly toxic to aquatic life.

Physical and chemical hazards: Flammable liquid and vapor. High temperatures decomposition of gas, the scene of containers may be Rupture, explosion. Its vapor is heavier than air, easy to spread to distant, fire source may cause As tempering.

Specific hazards: -

The main symptoms: irritation, dizziness, nausea, vomiting, and diarrhea.

Items Hazard Classification: 3 (flammable liquids)

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COMPOSITION/INFORMATION ON INGREDIENTS

Proprietary

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CAS #	EC NO.:	Chemical Name
15468-32-3		SiO ₂ - Silicon Dioxide – 215-591-6
67-63-0		IPA –(ISOPROPYL ALCOHOL)
919-32-0		Silane Coupling Agent
	28~32 %	Modified Sio ₂ and Silane Coupling Agent
	≤68%	IPA – (ISOPROPYL ALCHOHOL)

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FIRST AID MEASURES

Different methods of exposure pathways of aid:

- * Inhalation: 1 Remove the sources or the patient to fresh air. 2. If breathing has stopped administer artificial respiration immediately. 3. doctor immediately.
- * skin contact: 1. Immediately wash the affected area with warm water to ease the flow of more than 15 minutes. 2. flush off decontamination stolen clothes and shoes Son, after the required wash discarded or reused. 3. If irritation persists seek medical attention immediately.
- * Eye contact: 1. Immediately eyes softened with warm water and rinse thoroughly contaminated eyes 20 minutes or more. 2. The doctor immediately.
- * Ingestion: 1 unless the patient loses consciousness or convulsions, otherwise give the patient a lot of water to drink to induce vomiting. 2. The doctor immediately.

The most important symptoms and hazardous effects: irritation, a lot of exposure can cause unconsciousness or death. Emergency personnel on the protection of: C-level protective equipment should be worn in a safe area first aid.

The prompt for the physician: -

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FIRE FIGHTING MEASURES

Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam.

Special hazards may be encountered when the fire:

- 1.a flammable vapor and liquid, the liquid will accumulate charge vapor is heavier than air will pass Broadcast to the distance, in case of fire may cause tempering.
2. The high temperature will decompose to produce gas, The scene of containers may rupture, explosion.

Special fire fighting procedures:

1. Retreat or place a safe distance and self-protected fire.
2. Impose located upwind to avoid the risk of steam Gas and toxic decomposition products.

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3. Fire to prevent spills before, if you cannot stop the spill and around without any He danger, let the fire completely, If not stop the spill and fire first, with the air to form explosive vapors Re-ignition of the mixture.
4. No ignition substance isolation and protection personnel.
5. The vessel safety Move away from the scene.
6. Mist to cool fire exposed the tank or container.
7. With water mist fire suppression may be invalid, Firefighters received training unless all extinguishing flammable liquids.
8. If the spill has not ignited, water mist To disperse the vapors and to protect personnel attempting to stop the spill.
9. Water column fire invalid.
10. Large area large fires use water spray to control the operation of unmanned automatic swing or fire control sight.
11. Possible evacuation after the fire and allow the fire.
12. Away from the tank.
13. The tank valve has sounded or because of fire and change Color evacuate immediately.
14. No special protective equipment for the staff can not enter. Special protective equipment for fire fighters: Wear protective gloves and exhale air, fire clothing.

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ACCIDENTAL RELEASE MEASURES

Personal precautions should:

1. Not clean up the contaminated area before, limiting personnel close to the area.
2. Determine the clean-up work is done by Responsible trained personnel.
3. Wear appropriate personal protective equipment.

Environmental Considerations:

1. Ventilate the area.
2. Fight or remove all ignition sources.
3. Notify the Government Health and Safety

Environment-related units.

Methods for cleaning up:

1. Do not touch the leaked material.
2. To avoid leakage from entering sewers or within confined spaces.
3. In the security clearance under the circumstances, to try to prevent or reduce spillage.
4. Reacting will not leak dirt; sand or similar stable Noncombustible material containment leakage thereof.
5. When a small number of spills, and leaks with an absorbent material does not absorb the reaction of Close. Leakage of contaminated absorbent and the dangers of having the same shall be placed in an appropriate container capped and labeled Lane. Rinse spills area.
6. When a large number of spills: Contact firefighting, emergency treatment unit and suppliers to seek assistance.

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HANDLING AND STORAGE

Disposal:

1. This material is flammable and toxic liquids, disposal-engineering controls should be run and use of personal protective equipment; staff should be trained about the hazardous substances and appropriate method of safe use by.
2. Remove all ignition sources and away from heat and incompatible materials.
3. Work area should "prohibit smoking" signs. The liquid will accumulate charge extra consideration designed to increase the conductivity. If all Tongcao, transfer equipment and piping must be grounded vessel, when ground must be exposed to bare metal, transport operations, should reduce the flow rate, increased operating time, increase the time of liquid left in the pipeline or low temperature operation.
4. When the deployment of the operation was not carried out in a closed system, make sure that the deployment of transport container and receiving equipment and containers must equipotential connection.
5. Tongcao empty containers and pipelines may still have harmful residues shall not engage in cleaning up before any welding, cutting, drilling or other hot work.
6. Workplace ventilation systems use non-sparking, the equipment should be explosion-proof.
7. JOB avoid droplets or vapor, in a well-ventilated area designated mining operation and minimal usage, and storage area separate from the operating area.
8. Wear appropriate personal protective equipment necessary to avoid contact with the chemical equipment or contaminated.
9. Do not use with incompatible materials (such as the strong oxidant) to avoid increasing the risk of fire and explosion.

Storage:

1. Keep walkways and exit unhindered.
2. The storage area and a large number of regional operations, consider installing spills and fire detection systems and automatic fire extinguishing system or adequate enough and available emergency equipment.
3. Use a compatible material storage containers made of, be careful not to spray out when packing.
4. Do not air or inert gas in the pressurized liquid from the container is transported out.
5. Unless the deployment area with fire-resistant structure isolation, do not work in a storage area for the deployment.
6. Use an approved flammable liquid storage containers and deployment of equipment.
7. Do not use contaminated liquid back into the original storage containers.
8. Containers should be marked, maintained close when not in use and avoid damage.
9. Store in a cool, dry, well-ventilated, and direct exposure to sunlight cannot place, away from heat, ignition

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sources and incompatible materials.

10. The storage facilities should be constructed of refractories.
11. The floor should be constructed so as not to absorb impermeable material since the floor.
12. The door threshold or set up a slope or dig trenches so spills can be discharged to a safe place.
13. The storage area should be clearly marked, free of obstacles, and allows you to specify or trained personnel.
14. The storage area should be separated from the work area; away from elevators, building, room, or the main channel outlet store. Should be appropriate fire extinguishers and spill cleanup equipment near
15. Storage area.
16. The storage containers regularly checked for damage or spills.
17. Check that all new entrants properly labeled containers no damage.
18. The limited storage.
19. In order to be compatible storage containers made of the reservoir
20. The barrel spills ground and connects with other devices equipotential.
21. All flammable liquids stored liquid bucket pressure relief valve should be installed and vacuum release valve.
22. In accordance with the recommended storage temperature chemical manufacturer or supplier of storage.
23. Avoid bulk storage in the room, as stored in fireproof building isolated.
24. The tank of the exhaust pipe should be installed Damper.
25. The tank shall be ground tank, the bottom should be sealed to prevent leakage of the entire area around the entire capacity shall be able to contain the spill embankment.

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EXPOSURE CONTROLS/PERSONAL PROTECTION
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Engineering Controls:

1. Overall ventilation or local exhaust.
2. Individual alone will not produce sparks and grounded the ventilation system.
3. vent directly to the outdoors. The adequate supply of fresh air out of the exhaust system to supplement the air.

Control parameters

When the amount of the average eight hours daily

Allowable concentration

The average amount of time TWA short

Allowable concentration

STEL maximum allowable

Concentration

CEILING biological indicators

BEIs

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400ppm 500ppm - -

Personal protective equipment:

* Respiratory Protection: 2000ppm following: a certain amount of supplied air respirator type, containing vapor canister type air power Purifying or comprehensive type of chemical filtration tank respirator, full-type self-contained or supplied air respiratory protection.

Unknown concentration: Positive pressure self-contained breathing apparatus, positive pressure respirator comprehensive type of gas supplemented by positive pressure self-Portable respirator.

Escape: vapor-containing gas mask canister machine, the escape-type self-contained breathing apparatus.

Hand protection: Butyl rubber, green rubber, Viton, 4H, CPF3, Responder and other materials impervious gloves.

Eye Protection: Chemical splash goggles, full face masks.

Skin and body protection: Butyl rubber, green rubber, Viton, 4H and other materials impervious gloves.

Hygiene measures:

1.job as soon as possible after take off contaminated clothing and wash before re-worn or discarded, and shall inform the laundry staff

Hazardous pollutants.

2. Do not smoke in the workplace or diet.

3. After processing this material, should wash hands thoroughly.

4. Maintain workplace clean.

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PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Color: limpid liquid

Properties: High chemical and heat stability. It can be mixed with other water or oil solution.

Viscosity: 50 ~ 70 CPS

Hiding power: 8 m / L or more

Specific gravity: 0.81 to 0.82

Recommended Use: Automotive Plastics Rubber

PH in Solution 6 ~ 8

Solution IPA isopropanol

Physical state appearance: Limpid liquid clear liquid

Color: Limpid liquid clear liquid

Odor Isopropanol

Odor: IPA and interface activity Hydrophilic SiO₂ Compound Isopropyl alcohol and surfactant plus SiO₂ interface

State of matter: liquid Odor: rubber alcohol taste

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Boiling point / boiling range: 95.3 °C

Decomposition temperature: - Flash Point: <90 °C

Test methods: () Open Cup () closed cup

VA pour pressure: 33mmHg @ 20 °C Vapor

Solubility: insoluble in water

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STABILITY AND REACTIVITY

Stability:

Stable under normal conditions, can be very slow to form peroxides.

The reaction may harm the special situation:

1. Strong oxidizing agents (eg nitrates, perchlorates, peroxides): Increases or fire Explosion dangers.
2. Phosgene: Potassium generates chlorine and hydrochloric acid isopropyl fat.
3. Moly site: Explosively thermal decomposition reaction.
4. Hydrogen - Palladium: mixed in the air will ignite.
5. Acid: May react violently. 6. alkali metal or alkaline earth metal: may be released Flammable toxic body. Situation to avoid: heat, sparks, static electricity, ignition sources, light Substances to be avoided: strong oxidizing agents, phosgene, iron, hydrogen - palladium

Hazardous Decomposition Products: -

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TOXICOLOGICAL INFORMATION

Acute toxicity:

Inhalation:

1. Concentration at 400ppm, mild upper respiratory tract irritation.
2. Cause dizziness, ataxia at high concentrations (coordination Loss of function) and a deep coma.

Skin:

1. Short-term exposure will not irritate the skin Eyes: a concentration at 400ppm causes mild irritation.
2. Odd liquid contact with eyes can cause severe irritation.

Ingestion:

- 1 may cause dizziness, stomach pain, cramps, nausea, vomiting and diarrhea.
2. a lot of exposure can cause Loss of consciousness and death.
3. The estimated human lethal dose is approximately 131g.

LD50 (test animals, absorption pathways): 5045mg / kg (rat, ingestion)

LC50 (test animals, absorption pathways): 16000ppm / 8H (rat, inhalation)

Local effects: 500mg (rabbit, skin) cause mild irritation.

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100mg (rabbit eye) cause severe irritation.

Cause sensitivity: -

Chronic or long term toxicity:

Skin: Prolonged or frequent access point may cause dry and cracked skin.

Ingestion: Ingestion daily 6.4mg / kg isopropanol people after six weeks in blood and urine chemistry or fine No special changes in cellular composition.

Special effects: 3500ppm / 7H (1-19 days pregnant females, inhalation) resulting embryo hypoplasia. IARC to be ranked as Group 3: cannot judge for human carcinogenicity.

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ECOLOGICAL INFORMATION

The environment may affect / environmental flows cloth:

1. Does not accumulate in the body.
2. 4 times the experimental results show that 58% of isopropanol biodegradable wastewater BOD 5 days the Theoretical value (20 °C) Upon the.
3. When released into the soil, due to its high vapor pressure and low adsorption to soil, is expected to quickly Evaporate and flow into the ground.
4. When released into water, is expected to evaporate (estimated half-life of its 5.4 days) and can be decomposed Organisms (although the lab will quickly decompose, but still no natural water sources in the relevant data).
5. When released into the atmosphere, is expected to be photolysis (its half-life of about one to several days), and its solubility in water, the rain may be washed down.
6. Highly toxic to aquatic organisms.

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DISPOSAL CONSIDERATIONS

Waste Disposal Method:

1. In particular landfill burial or incineration in an incinerator approved solvent.
2. If a small amount of the sewer or drain places plenty of water to avoid accumulation of flammable vapors.
3. If a large outflow report environmental agencies.

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TRANSPORT INFORMATION

International transport regulations:

- 1.DOT 49CFR to be ranked as the third category of flammable liquids, packaging grade II. (US Department of Transportation)
- 2.IATA / ICAO Rating: 3. (International Maritime Organization)
- 3.IMDG Rating: 3. (International Maritime Organization)

UN Number: 1219

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Domestic transport regulations:

1. road safety Rule 84.
2. ship dangerous goods loading rules.
3. Taiwan Railway Administration Regulations handling and transportation of dangerous goods.

Special delivery methods and precautions: -

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REGULATORY INFORMATION

Applicable Regulations:

Labor safety and sanitation conditions hazardous material and hazardous substance

Liberal rule The organic solvent poisoning prevention regulations of labor operating environment allowable concentration of harmful substances in the air standard

Road traffic safety rules cause waste storage and treatment facility clear standards

Public dangerous goods and flammable pressure gas settings and Security Measures Sixteen,

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OTHER INFORMATION