

Safety Data Sheet (Complies with OSHA)

Section 1: Identification

| | |
|--|--|
| Product Identifier | SILVERSHIELD 5000X Part A |
| Other Means of Identification: | SILVESHIELD (5000X-1G, 5000X-Q) |
| Recommended Use | Not Available |
| Recommended Restrictions | None known |
| Manufacturer/Importer/Supplier/ Company Name: | Distributor information Dynesic Technologies, Inc. 15230 Surveyor Blvd., Addison, TX 75001 Phone: 972-692-0962 |
| After hours telephone number | Phone: 972-692-0962 |
| Website | www.dynesic.com |
| Email | sphillips@dynesic.com |
| Emergency 24 hour telephone | CHEMTREC: North America 1-800-424-9300 International 1-800-527-3887 |
| Operation hours information | 7:00 a.m. to 7:00 p.m. |

Section 2: Hazard(s) Identification

| | | |
|------------------------------|---------------------------|-------------|
| Physical hazards | Not Classified | |
| Health hazards | Skin corrosion/irritation | Category 2 |
| | Eye damage/eye irritation | Category 2B |
| | Sensitization, skin | Category 1 |
| | Carcinogenicity | Category 1 |
| Environmental hazards | Not classified | |
| OSHA defined hazards | Not classified | |
| Label elements | | |



Signal word
Hazard statement

Danger
May cause cancer. Causes skin irritation. Causes eye irritation.

Precautionary statement
Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid breathing dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the work place. Wear protective gloves/protective clothing/eye protection/face protection.

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Response

Specific treatment see Section 4 of this SDS. IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse.

Storage

Store in accordance with local/regional/national regulations.

Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)

None known

Supplemental information

Not applicable

Section 3: Composition/Information on Ingredients

| Chemical name | Common Name and Synonyms | CAS Number | % |
|--|--------------------------|-------------|-------|
| 1-METHOXYPROPAN-2-OL | | 107-98-21 | >1 |
| BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN | | 25068-38-6 | 45-55 |
| QUARTZ | | 14808-60-7 | 10-20 |
| CASHEW, NUTSHELL LIQ., GLYCIDYL ETHERS | | 171263-25-5 | 1-10 |
| SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. | | 64742-95-6 | <1 |

* Other components below reportable levels

Section 4: First Aid Measures

Inhalation

Move to fresh air. Call a physician if symptoms develop or persist.

Skin contact

Wash off with soap and water. Get medical attention if irritation develops and persists. Wash contaminated clothing before reuse.

Eye contact

Rinse with water. Continue to rinse for at least 15 minutes. Get medical attention if irritation persists after washing.

Ingestion

Rinse mouth. Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs. Call a POISON CENTER or doctor/physician if you feel unwell.

Most important symptoms/effects, acute and delayed

Direct contact with eyes may cause temporary irritation.

Indication of immediate medical attention and special treatment needed

Treat symptomatically.

General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.

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Section 5: Fire-Fighting Measures

Suitable extinguishing media

Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable extinguishing media

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical

During fire, gases hazardous to health may be formed.

Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Move containers from fire area if you can do so without risk.

Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. For personal protection, see section 8 of the SDS.

Methods and materials for containment and cleaning up

This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS.

Environmental precautions

Avoid discharge into drains, water courses or onto the ground.

Section 7: Section 7: Handling And Storage

Precautions for safe handling

Avoid prolonged exposure. Observe good industrial hygiene practices.

Conditions for safe storage, including any incompatibilities

Store in original tightly closed container. Store away from incompatible materials (see Section 10 of the SDS).

Section 8: Exposure Controls/Personal Protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| <i>Components</i> | <i>Type</i> | <i>Value</i> | <i>Form</i> |
|-------------------------|-------------|-----------------------|-------------|
| QUARTZ (CAS 14808-60-7) | TWA | 0.3 mg/m ³ | Total dust |

US. ACGIH Threshold Limit Values

| <i>Components</i> | <i>Type</i> | <i>Value</i> | <i>Form</i> |
|-------------------------------------|-------------|-------------------------|----------------------|
| 1-METHOXYPROPAN-2-OL (CAS 107-98-2) | STEL | 100 ppm | |
| | TWA | 50 ppm | |
| QUARTZ (CAS 14808-60-7) | TWA | 0.025 mg/m ³ | Respiratory fraction |

US. NIOSH: Pocket Guide to Chemical Hazards

| <i>Components</i> | <i>Type</i> | <i>Value</i> | <i>Form</i> |
|-------------------------------------|-------------|------------------------|------------------|
| 1-METHOXYPROPAN-2-OL (CAS 107-98-2) | STEL | 540 mg/m ³ | |
| | | 150 ppm | |
| | TWA | 360 mg/m ³ | |
| | | 100 ppm | |
| QUARTZ (CAS 14808-60-7) | TWA | 0.05 mg/m ³ | Respiratory dust |
| | | 10 ppm | |

Biological limit values

No biological exposure limits noted for the ingredient(s).

Exposure guidelines

US - California OELs: Skin designation

1-METHOXYPROPAN-2-OL (CAS 107-98-2) Can be absorbed through the skin.

Appropriate engineering controls

Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear safety glasses; chemical goggles (if splashing is possible).

Hand protection

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

Other Wear suitable protective clothing.

Respiratory protection

If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Section 9: Physical and Chemical Properties

| | |
|---|-------------------------|
| Appearance | Liquid |
| Physical state | Liquid |
| Form | Viscous Liquid |
| Color | Silver |
| Odor | Slight |
| Odor threshold | Not available |
| pH | Not available |
| Melting point/freezing point | Not available |
| Initial boiling point and boiling range | > 500 °F (> 260 °C) |
| Flash point | > 200 °F (> 104.4 °C) |
| Evaporation rate | Not available |
| Flammability (solid, gas) | Not available |
| Upper/lower flammability or explosive limits | |
| Flammability limit - lower (%) | Not available |
| Flammability limit upper (%) | Not available |
| Explosive limit - lower (%) | Not available |
| Explosive limit - upper (%) | Not available |
| Vapor pressure | 6.77 hPa estimated |
| Vapor density | Not available |
| Relative density | Not available |
| Solubility(ies) | |
| Solubility (water) | None |
| Partition coefficient (n-octanol/water) | Not available |
| Auto-ignition temperature | Not available |
| Decomposition temperature | Not available |
| Viscosity | Not available |
| Other information | |
| Density | 12.98 lb./gal estimated |
| Percentage volatile | 0.01 % estimated |
| Specific Gravity | 1.56 |

Section 10: Stability and Reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.

Hazardous decomposition products

No hazardous decomposition products are known.

Section 11: Toxicological Information

Information on likely routes of exposure

Ingestion Expected to be a low ingestion hazard.

Inhalation May be harmful if inhaled.

Skin contact Causes skin irritation.

Eye contact Causes eye irritation.

Symptoms related to the physical, chemical and toxicological characteristics

Direct contact with eyes may cause temporary irritation.

Information on toxicological effects

Acute toxicity

| <u>Components</u> | <u>Species</u> | <u>Test Results</u> |
|-------------------|----------------|---------------------|
|-------------------|----------------|---------------------|

1-METHOXYPROPAN-2-OL (CAS 107-98-2)

Acute

Dermal

| | | |
|------|--------|---------|
| LD50 | Rabbit | 13 g/kg |
|------|--------|---------|

Inhalation

| | | |
|------|-----|--------------------|
| LC50 | Rat | 54.6 mg/l, 4 Hours |
|------|-----|--------------------|

Oral

| | | |
|------|-----|-----------|
| LD50 | Rat | 5.71 g/kg |
|------|-----|-----------|

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Respiratory sensitization Not available

Skin sensitization May cause sensitization by skin contact.

Germ cell mutagenicity

No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity

This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. This product contains crystalline silica. Silica is a known carcinogen; however in this encapsulated form the normal routes of exposure are unavailable.

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050) Not listed

Reproductive toxicity

This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure Not classified

Specific target organ toxicity - repeated exposure Not classified

Aspiration hazard Not available

Chronic effects

Prolonged inhalation may be harmful.

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Section 12: Ecological Information

| Ecotoxicity | The product contains a substance which is toxic to aquatic organisms | |
|--------------------|--|---------------------------------|
| Product | Species | Test Results |
| 5000X Part A | | |
| Aquatic | | |
| Crustacea | EC50 Daphnia | 0.8463 mg/l, 48 hours estimated |
| Fish | LC50 Fish | 2.8319 mg/l, 96 hours estimated |

* Estimates for product may be based on additional component data not shown.

Persistence and degradability

No data is available on the degradability of this product

Bioaccumulative potential No data available

Mobility in soil No data available

Other adverse effects

No other adverse environmental effects are expected from this component.

Section 13: Disposal Considerations

Disposal instructions

When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261.

Local disposal regulations

Dispose in accordance with all applicable regulations.

Hazardous waste code

The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products

Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

Section 14: Transportation Information

DOT Not regulated as dangerous goods.

IATA Not regulated as dangerous goods.

IMDG **UN number** UN3082

UN proper shipping name

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (BISPHENOL A-(EPICHLORHYDRIN) EPOXY RESIN), MARINE POLLUTANT

Transport hazard class(es)

Class 9

Subsidiary risk -

Packing group III

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Environmental hazard class(es)

Marine Pollutant

Yes

EmS

F-A, S-F

Special precautions for user

Not available

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code IMDG



Marine Pollutant



General information

DOT Regulated Marine Pollutant. IMDG Regulated Marine Pollutant.

Section 15: Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Inventory List. TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated

CERCLA Hazardous Substance List (40 CFR 302.4)

1-METHOXYPROPAN-2-OL (CAS 107-98-2) Listed

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

Not regulated

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Immediate Hazard - Yes

Delayed Hazard - Yes

Fire Hazard - No

Pressure Hazard - No

Reactivity Hazard - No

SARA 302 Extremely hazardous substance

Not Listed

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SARA 311/312 No
Hazardous chemical
SARA 313 (TRI reporting) Not regulated
Other federal regulations
Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated
Safe Drinking Water Act Not regulated
US state regulations WARNING: This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.
US - California Proposition 65 - CRT: Listed date/Carcinogenic substance
QUARTZ (CAS 14808-60-7) Listed: October 1, 1988
US. California. Candidate Chemicals List. Safer Consumer Products Regulations (Cal. Code Regs, tit. 22, 69502.3, subd. (a))
1-METHOXYPROPAN-2-OL (CAS 107-98-2)
QUARTZ (CAS 14808-60-7)
SOLVENT NAPHTHA (PETROLEUM), LIGHT AROM. (CAS 64742-95-6)

International Inventories

Country(s)/region Inventory name On inventory (yes/no)*

| | | |
|-----------------------------|---|------|
| Australia | Australian Inventory of Chemical Substances (AICS) | No |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances China | Yes |
| Europe | European Inventory of Existing Commercial Chemical Substances | No |
| Europe | European List of Notified Chemical Substances (ELINCS) | No |
| Japan | Inventory of Existing and New Chemical Substances | No |
| Korea | Existing Chemicals List (ECL) | No |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes* |

A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

Section 16: Other information

Issue date 05-18-2015
Revision Date 11/21/2018
Version # 05
NFPA Ratings Health: 2
Flammability: 1
Instability: 0

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Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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