SAFETY DATA SHEET

Boreal Science

399 Vansickle Road

St. Catherines, Ontario

GENERAL STORAGE CODE GREEN

Section 1 Chemical Product and Company Identification

5100 West Henrietta Rd

PO Box 92912

Page E1 of E2 CHEMTREC 24 Hour Emergency USA

Phone Number (800) 424-9300 For laboratory and industrial use only.

| SCIE | Rochester, NY 14692-9012 L25 3T4 Canada Tel: (800) 962-2660 Tel: (800) 387-9393 | Not for drug, food or household use. |
|---|---|--|
| Product | CARMINE (ALUM LAKE) | |
| Synonyms | C.I. Natural Red 4; C.I. No. 75470; Alum Lake of Carminic Acid | |
| Section 2 | Hazards Identification | |
| to the Globa Chemicals. Signal word Pictograms | Ince or mixture has not been classified as hazardous according ally Harmonized System (GHS) of Classification and Labeling of I: Not classified : Not classified ns: None known | Supplementary information: Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell. |
| GHS Label | fication: Not classified information: Hazard statement: Not classified ary statement: Not classified | |

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known Physical hazards not otherwise classified (PHNOC) - Not Known

Filysical hazards not otherwise classified (FHNOC) - Not Known

| Section 3 Composition / Inform | ation on Ingredients | | | |
|--------------------------------|----------------------|------|-----------|--|
| Chemical Name | CAS # | % | EINECS | |
| Carmine (Alum Lake) | 1390-65-4 | 100% | 215-724-4 | |
| Section 4 First Aid Measures | | | | |

INGESTION: MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

INHALATION: MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

SKIN ABSORPTION: MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

Section 5 Fire Fighting Measures

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

Protective Actions for Fire-fighters: In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

Specific Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

Section 6 Accidental Release Measures

Personal Precautions: Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

Environmental Precautions: Avoid runoff into storm sewers and ditches which lead to waterways.

Containment and Cleanup: Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

Section 7 Handling & Storage

Precautions for Safe Handling: Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

Conditions for Safe Storage: Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from light.

| Section 8 | Exposure Controls / Personal Pro | tection | | |
|------------------|----------------------------------|------------------|------------------|------------------|
| Exposure Limits: | Chemical Name | ACGIH (TLV) | OSHA (PEL) | NIOSH (REL) |
| Exposure Linits. | Carmine | None established | None established | None established |

Engineering controls: Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

Respiratory protection: None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHAannroved respirator

| approved respirato | ۰۲. | | | | | | |
|---|---|--|--|--|--|-----------------------------------|---|
| Section 9 | Physical & Chemica | al Properties | | | | | |
| Appearance: Solid. F Odor: No odor. Odor threshold: D pH: Data not availa Melting / Freezing Boiling point: Dec Flash point: Not fl | Data not available. able. point: 120°C (248°F) dark composes | Kens Kens Kens Kens Kens Kens Kens Kens | ate (=1): Data not a solid/gas): Data not ts: Lower / Upper: N e (mm Hg): Negligibl (Air = 1): Data not av (Specific gravity): >1.0 : (water) Insoluble in o | available. lot needed e vailable | Auto-ignition Decompos Viscosity: Molecular f | | : Data not available re: 230°C (446°F) le. |
| Section 10 | Stability & Reactivit | ty | | | | | |
| Chemical stability Conditions to avo | r: Stable id: Excessive temperature | | ous polymerization: | Will not occur. | | | |
| Incompatible mate | erials: Strong oxidizers. | | | | | | |
| Hazardous decom | nposition products: Carb | oon oxides, sodium oxide | es, sulfur oxides and b | romine gas. | | | |
| Section 11 | Toxicological Inform | nation | | | | | |
| IARC: No compone OSHA: No compone Reproductive toxi | nt of this product present a ent of this product present a nent of this product present icity: Data not available | at levels greater than or | equal to 0.1% is ident | ified as probable, po | ssible or confir | med human card | |
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