Safety Data Sheet

PolyScience Polycool HC-50

Section 1. Identification

Product Identifier

PolyScience Polycool HC-50 060330; 04212CL01 **Synonyms**

Manufacture Stock

Numbers

04212CL01

Recommended use Uses advised against Refer to Technical Data Refer to Technical Data

Manufacturer Contact

Address

Accumetric, LLC

350 Ring Road

Elizabethtown, KY, 42701

USA

Phone

Emergency

Fax

Phone

(270) 769-3385

N/A

(800) 424-9300 Chemtrec

Section 2. Hazards Identification

Classification N/A

Signal Word

Pictogram

Hazard Statements

N/A

Precautionary Statements

> N/A Response Prevention N/A Storage N/A Disposal N/A

Ingredients of unknown 0%

toxicity

Hazards not Otherwise Not a hazardous substance or mixture

Classified

Section 3. Ingredients

| CAS | Ingredient Name | Weight % |
|-----------|-----------------------------------|----------|
| N/A | Inhibitor solution (trade secret) | < 12% |
| 7789-20-0 | Water | 5% - 50% |
| 590-29-4 | Potassium formate | 5% - 50% |

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First-aid Measures

| Skin Exposure | If the product contaminates the skin, begin decontamination with running water. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The recommended flushing time is 15 minutes if pain or irritation occurs. Contaminated individual must seek medical attention, especially if symptoms persist. |
|---------------|---|
| Eye Exposure | If the product enters the eyes, open victim's eyes while under gentle running water. Use sufficient force to open eyelids. Have victim "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual must seek immediate medical attention, especially if symptoms persists. |
| Inhalation | If vapors or mists of the product are inhaled, remove victim to fresh air. If necessary, use artificial respiration to support vital functions. Remove or cover gross contamination to avoid exposure to rescuers. |
| Ingestion | If the product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. If professional is not available, do not induce vomiting. Contaminated individuals should drink milk, egg whites or large quantities of water. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions or whole is unable to swallow. |
| Note | Contaminated individual must be taken for medical attention if any adverse reaction occurs. Rescuers should be taken for medical attention, if necessary. Take a copy of label and MSDS to physician or health professional with victim. |

Section 5. Fire Fighting Measures

Suitable Extinguishing Media Unsuitable Extinguishing Media Autoignition Temperature Flammable Limits (in air by volume, %)

Fire Extinguishing Materials

Unusual Fire and Explosion Hazards

Sensitivity to Mechanical Impact Sensitivity to Static Discharge Special Fire-fighting Procedures N/A

N/A

Not applicable

Lower (LEL): Not applicable Upper (UEL): Not applicable

Water Spray, Carbon Dioxide, Dry Chemical, Halon, Foam, any "ABC"

Class

When involved in a fore, this material may decompose and produce irritating vapors, toxic gases (e.g., oxides of carbon, potassium compounds), soot and smoke.

None

None

Incipient fire responders should wear eye protection. Structural fire fighters must wear self-contained breathing apparatus and full protective equipment. If possible, prevent run-off water from entering storm drains, bodies of water or other environmentally areas. Decontaminate fire-response equipment with soap and water solution if necessary.

Section 6. Accidental Release Measures

Spill and Leak Response Uncontrolled releases should be responded to by trained personnel

using pre-planned procedures. Proper protective equipment should

be used.

Small Spill Cover with absorbent material (floor absorbent, vermiculite, etc.).

Soak up spill and place material into a drum.

Large Spill Personnel involved with large release should wear protective

equipment. Stop spill at source; dike the area surrounding the spill to prevent further exposure. Prevent material from entering sewer system. If pump is available, pump spilled material into 55gallon drum for proper disposal. If necessary, absorbents such as vermiculite, clay, floor absorbent may be used on spill and

shoveled into drums.

Personal Protective Equipment

Should be Level D: chemical resistant gloves (rubber or nitrile) and safety glasses. If heated, this product may displace oxygen in an enclosed area. Dispose of in accordance with federal, state and

local hazardous waste disposal regulations (see Section 13,

disposal Considerations).

Section 7. Handling and Storage

Work Practices and **Hygiene Practices**

As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Use in a wellventilated location. Do not eat, drink, smoke or apply cosmetics while handling this material. Use ventilation and other

engineering controls to minimize potential exposure to the

aerosol, sprays and vapors of this product.

Storage and Handling **Practices**

All employees who handle this material should be trained to handle it safely. Open containers slowly, on a stable surface. Drums and other containers of this product should be properly labeled. Empty containers may contain residual amounts of this product; therefore, empty containers should be handled with care. Store containers in a cool; dry location, away from direct sunlight,

or sources of intense heat. Keep containers away from

incompatible chemicals (See Section 10, Stability and Reactivity). Keep drums and other containers of this product tightly closed when not in use. Inspect all incoming containers before storage, to ensure containers are properly labeled and not damaged.

Protective Practices During Maintenance of

Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and Contaminted Equipment tagged-out safely, if necessary. Decontaminate equipment using

soapy water before maintenance begins.

Section 8. Exposure Controls/Personal Protecction

Occupational Exposure Limits

| Ingredient Name | ACGIH TLV | OSHA PEL | STEL |
|-----------------------------------|-----------|----------|------|
| Inhibitor solution (trade secret) | N/A | N/A | N/A |
| Water | N/A | N/A | N/A |
| Potassium formate | N/A | N/A | N/A |

Personal Protective Equipment

N/A

Ventilation and Engineering Controls

Use with adequate ventilation to minimize exposure to mists or

sprays of this product. Prudent practice is to ensure

eyewash/safety shower stations are available near areas where

this product is used.

Respiratory Protection

None needed for normal circumstances of use. Maintain airborne contaminant concentrations below exposure limits listed in Section

2. If respiratory protection is needed, use only protection

authorized in 29 CFR 1910.134, or applicable State regulations. Use supplied air respiration protection if oxygen levels are below

19.5% or are unknown.

Eye Protection Hand Protection Splash goggles or safety glasses

Wear rubber or neoprene gloves for routine industrial use. Use

triple gloves for spill response, as stated in Section 6 (Accidental

Release Measures) of this MSDS.

Body Protection Use body protection appropriate for task.

Section 9. Physical and Chemical Properties

| Physical State Color Color Clear/light yellow Odor Odorless Odor Threshold No data available Solubility Soluble in water Partition coefficient Water/noctanol Viscosity Specific Gravity Density Ibs/Gal Pounds per Cubic Foot Flash Point Flash Point Not applicable FP Method Ph 7.0 - 11.0 Melting Point Soluble in water No data available N/A Ph 7.0 - 11.0 Melting Point Soluble in water Not available N/A Ph N/A Boiling Range N/A LEL N/A UEL N/A Vaporation Rate No data available No data available Vapor Pressure No data available Vapor Density No data available Vapor Density No data available | | | |
|---|---------------------------|------------|--|
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| Odor Odorless Odor Threshold No data available Solubility Soluble in water Partition coefficient Water/n- octanol Viscosity Viscosity Specific Gravity Density Ibs/Gal Pounds per Cubic Foot Flash Point Not applicable FP Method N/A Ph 7.0 - 11.0 Melting Point Solling Range LEL N/A UEL N/A Evaporation Rate No data available Flammability No data available Decomposition Temperature No data available Vapor Pressure No data Available Vapor Density No data | Color | | |
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| available Flammability No data available Decomposition Temperature Auto-ignition Temperature Vapor Pressure Vapor Density No data available No data Available No data | UEL | N/A | |
| available Decomposition Temperature Auto-ignition Temperature Vapor Pressure Vapor Density Available No data available No data Available | Evaporation Rate | | |
| Auto-ignition Temperature Vapor Pressure Vapor Density No data available No data Available No data | Flammability | | |
| Auto-ignition Temperature Vapor Pressure Vapor Density No data available No data No data | Decomposition Temperature | N/A | |
| Vapor Density No data | | | |
| 1 | Vapor Pressure | | |
| | Vapor Density | No data | |

NoteThe above information is not intended for use in preparing product specifications. Contact Accumetric LLC before writing specifications.

Section 10. Stability and Reactivity

Chemical Stability

Stable

Decomposition Products If this product is exposed to extremely high temperatures,

decomposition of this product will generate carbon dioxide, carbon

monoxide and potassium compounds.

Materials with which

Substance is Incompatible Strong oxidizer

Hazardous Polymerization Will not occur

Conditions to Avoid

Contact with strong oxidizers and exposure to extremely high

temperatures.

Section 11. Toxicological Information

Toxicity Data Considered non-toxic based on recommendations of the Hazardous

Substances Labeling Act. Oral - Rat LD50 > 5,000 mg/kg Dermal -Rabbit LD50 > 2,000 mg/kg Testing showed no mortalities and no adverse clinical signs in rats receiving a single oral dose 5,000 mg/kg. Testing showed no treatment-related mortalities, clinical signs or gross pathological changes in rabbits receiving a single

dermal dose of 2,000 mg/kg.

Suspected Cancer Agent The ingredients of this product are not listed on the following

lists: FEDERAL OSHA Z LIST, NTP, IARC or CAL/OSHA, and therefore are not considered to be, nor suspected to be, cancer-

causing agents by these agencies.

Irritancy of Product Repeated or prolonged exposure to this product may cause

irritation to contaminated tissues.

Sensitization to the

Product

No components of this product are reported to be sensitizers upon

prolonged or repeated exposures.

Reproductive Toxicity

Information

Listed below is information concerning the effects of this product

and its components on the human reproductive system.

Mutagenicity: This product is not reported to produce mutagenic effects in humans. Embryotoxicity: This product is not reported to produce embryotoxic effects in humans. Teratogenicity: This product is not reported to produce teratogenic effects in humans. Reproductive Toxicity: This product is not reported to produce

reproductive effects in humans.

Medical Conditions

Pre-existing dermatitis and other skin disorders may be

Aggravated by Exposure aggravated by skin contact with this product.

Recommendations to

Physicians

Treat symptoms and reduce exposures.

Biological Exposure

Indices

Currently, there are no Biological Indices (BEIs) associated with

the components of this products.

Section 12. Ecological Information

Important: All work practices must be aimed at eliminating environmental

contamination.

Environmental Stability The component of this product will be degraded over time into

other organic compounds.

Effect of Material on Plants or Animals

This may be harmful to contaminated plant and animal life (especially if large amounts are released). Refer to Section 11 for specific information regarding effects of the product's components

on test animals.

Effect of Chemical on

Aquatic Life

This product may be harmful to aquatic life if large quantities are

release into bodies of water.

Section 13. Disposal

Preparing Wastes for Disposal

Waste disposal must be in accordance with appropriate Federal, State, local regulations. This product, if unaltered by use, may be disposed of by treatment at a permitted facility or as advised by

your local hazardous waste regulatory authority.

Section 14. Transport Information

| UN Number | N/A |
|-------------------------|-----|
| UN Proper Shipping Name | N/A |
| DOT Classification | N/A |
| Packing Group | N/A |
| | |

Note

Road Shipment Information (DOT) Air Shipment (IATA)

Ocean Shipment (IMDG)

This material is not hazardous as defined by 49 CFR 172.101 by the US Department of Transportation.

Not subject to DOT regulations.

Not subject to IATA

regulations.

Not subject to IMDG code.

Section 15. Regulatory Information

The contents of this MSDS comply with the OSHA Hazard

Communication Standard 29 CFR 1910.1200.

US SARA Reporting Requirements

The components of this product are not subject to the reporting requirements of Section 302, 304 and 313 of Title III of the

Superfund Amendments and Reauthorization Act.

Canadian DSL Status

The components listed in Section 2 are listed on the DSL

Inventory.

US TSCA Status

The components of this product listed in Section 2 are on the

TSCA Inventory.

US SARA Threshold Planning Quantity

Not applicable

US CERCLA Reportable

Not applicable

Quantities

Other US Federal

Not applicable

Regulations **US State Regulatory**

Information

Components of this product are covered under specific State

California Proposition

regulations, as denoted below: None known

This product contains the following chemical(s) listed by the State of California under the Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65) as being known to cause cancer, birth

defects or other reproductive harm: None known

Labeling (Precautionary Statements)

CAUTION! MAY CAUSE SKIN AND EYE IRRITATION. FOR INDUSTRIAL USE ONLY. KEEP AWAY FROM CHILDREN. Avoid contact with skin, eyes and clothing. Avoid prolonged skin contact. Wash thoroughly after handling. Use in well-ventilated area. Use gloves, safety goggles and appropriate body protection. FIRST AID: In case of skin or eye contact, flush with water for 15 minutes. If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. If ingested, do not induce vomiting. Get medical attention if adverse reactions occur. IN CASE OF FIRE: Use water fog, dry chemical, CO2 or 'alcohol' foam. IN CASE OF SPILL: Absorb with an inert material (i.e. polypads), then place in a suitable container. Consult Material Safety Data Sheets for additional information.

Section 16. Other Information

Revision Date Disclaimer

3/4/2015

The data contained herein is based upon information that Accumetric LLC believes to be reliable. Users of this product have the responsibility to determine that suitability of use and to adopt all necessary precautions to ensure the safety and protection of property and persons involved in said use. All statements or suggestions are made without warranty, expressed or implied. regarding the accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof.