

Safety Data Sheet

PolyScience Polycool HC-50

Section 1. Identification

Product Identifier PolyScience Polycool HC-50
Synonyms 060330; 04212CL01
Manufacture Stock 04212CL01
Numbers

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

Manufacturer Contact

Address Accumetric, LLC
350 Ring Road
Elizabethtown, KY, 42701
USA

Phone	Emergency Phone	Fax
(270) 769-3385	(800) 424- 9300 Chemtrec	N/A

Section 2. Hazards Identification

Classification N/A
Signal Word
Pictogram
Hazard Statements N/A
Precautionary
Statements
Response N/A
Prevention N/A
Storage N/A
Disposal N/A

Ingredients of unknown toxicity 0%

Hazards not Otherwise Classified Not a hazardous substance or mixture

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	N/A
Unsuitable Extinguishing Media	N/A
Autoignition Temperature	Not applicable
Flammable Limits (in air by volume, %)	Lower (LEL): Not applicable Upper (UEL): Not applicable
Fire Extinguishing Materials	Water Spray, Carbon Dioxide, Dry Chemical, Halon, Foam, any "ABC" Class
Unusual Fire and Explosion Hazards	When involved in a fire, this material may decompose and produce irritating vapors, toxic gases (e.g., oxides of carbon, potassium compounds), soot and smoke.
Sensitivity to Mechanical Impact	None
Sensitivity to Static Discharge	None
Special Fire-fighting Procedures	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 sensitive 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 55-gallon 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 well-ventilated 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 Contaminated Equipment	Follow practices indicated in Section 6 (Accidental Release Measures). Make certain application equipment is locked and tagged-out safely, if necessary. Decontaminate equipment using soapy water before maintenance begins.

Section 8. Exposure Controls/Personal Protection

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

Splash goggles or safety glasses

Hand Protection

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	Liquid
Color	Clear/light yellow
Odor	Odorless
Odor Threshold	No data available
Solubility	Soluble in water
Partition coefficient Water/n-octanol	No data available
Viscosity	>1.0 cP @ 25C
Specific Gravity	1
Density lbs/Gal	N/A
Pounds per Cubic Foot	N/A
Flash Point	Not applicable
FP Method	N/A
Ph	7.0 - 11.0
Melting Point	<0C <32F
Boiling Point	>100C >212F
Boiling Range	N/A
LEL	N/A
UEL	N/A
Evaporation Rate	No data available
Flammability	No data available
Decomposition Temperature	N/A
Auto-ignition Temperature	No data available
Vapor Pressure	No data available
Vapor Density	No data available

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 Aggravated by Exposure	Pre-existing dermatitis and other skin disorders may be 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.
EPA Waste Number	Not applicable to wastes consisting only of this product.

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 Quantities	Not applicable
Other US Federal Regulations	Not applicable
US State Regulatory Information	Components of this product are covered under specific State regulations, as denoted below: None known
California Proposition 65	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	3/4/2015
Disclaimer	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.