Safety Data Sheet

PolyScience Polycool PG-20

Section 1. Identification

Product Identifier	PolyScience Polycool PG-20
Synonyms	060320; 04213CL01
Manufacturer Stock Numbers	04213CL01
Recommended use	Refer to Product Label
Uses advised against	Refer to Product Label
Manufacturer Contact	
Address	SOUDAL Accumetric 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	The mixture does not meet the criteria for classification.
Precautionary Statements	
Response	Wash hands after handling.
Prevention	Observe good industrial hygiene practices.
Storage	Store away from incompatible materials.
Disposal	Dispose of waste and residues in accordance with local authority requirements.
Ingredients of unknown toxicity	0%

Hazards not Otherwise Classified	
Additional Information	None known

Section 3. Ingredients

CAS	Ingredient Name	Weight %
	Other components below reportable levels	0.02 %
57-55-6	Propylene glycol	99.8 %

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

Section 4. First-Aid Measures

Eye Contact	Flush eyes throughly with water for several minutes. Remove contact lenses are initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.
Skin Contact	Wash with soap and water. If irritation occurs, seek medical attention.
Inhalation	Remove to fresh air. Seek medical attention if irritation persists.
Ingestion	No first aid should be needed.
Note to Physician	No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5. Fire Fighting Measures

Suitable Extinguishing Media	N/A
Unsuitable Extinguishing Media	N/A
Special Fire Fighting Proceudres	Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.
Extinguishing Media	Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Do not use direct water stream. May spread fire. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

Section 6. Accidental Release Measures

Steps to be taken in case of spill or release	Contain spilled material if possible. Prevent from entering soil, ditches, sewers, waterways and /or groundwater. Small spills: Any absorbent material. Collect in suitable and properly labeled open containers. Wash the spill site with large quantities of water. Large spills: Dike area to contain spill. Pump into suitable and properly labeled containers.

Section 7. Handling and Storage

Handling	General Handling: Product handle hot may require additional ventilation or local exhaust.
Storage	Store away from direct sunlight or ultraviolet light. Keep container tightly closed when not in use. Store in a dry place. Protect from atmospheric moisture. Store in the following materials: Stainless steel. Aluminum. Plasite 3066 lined container. 316 stainless steel. Opaque HDPE plastic container.
Other Precautions	Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperatures possibly resulting in spontaneous combustion.

Section 8. Exposure Controls/Personal Protection

Occupational Exposure Limits

Ingredient Name	ACGIH TLV	OSHA PEL	STEL
Other components below reportable levels	N/A	N/A	N/A
Propylene glycol	N/A	N/A	N/A

Personal Protective Equipment	N/A
Eye Protection	Use proper protection - safety glasses as a minimum. Use chemical worker's goggles. When there may be the potential for airborne misting or aerosolization may occur, use as a minimum a full face air purifying respirator equipped with dust-mist cartridges.
Ingestion Prevention	Do not eat, drink or smoke when using this product. Wash exposed areas throughly with soap and water.
Skin Protection	No precautions other than clean body-covering clothing should be needed. Hand protection: Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized.
Engineering Controls	Local Ventilation: Recommended General Ventilation: Recommended
Respiratory Protection	Use respiratory protection unless adequate exhaust ventilation is provided or exposure assessment demonstrates that exposures are within exposure guidelines. Industrial Hygiene Personnel can assist in judging the adequacy of existing engineering controls. Suitable Respirator: Organic Vapor Type

Section 9. Physical and Chemical Properties

Physical State	Liquid
Color	Colorless
Odor	Odorless
Odor Threshold	Not available
Solubility	Not available
Partition coefficient Water/n-octanol	Not available
VOC%	99.98% estimated

Viscosity	Not available
Specific Gravity	1.04
Density lbs/Gal	8.65
Pounds per Cubic Foot	N/A
Flash Point	98.9C 210.0F
FP Method	N/A
Ph	Not available
Melting Point	-59C -74.2F estimated
Boiling Point	188.18C 370.73F estimated
Boiling Range	N/A
LEL	2.6
UEL	12.6
Evaporation Rate	Not available
Flammability	Not applicable
Decomposition Temperature	Not available
Auto-ignition Temperature	371.11C 700F estimated
Vapor Pressure	0.17 hPa estimated
Vapor Density	Not available

Note	The above information is not intended for use in preparing product specifications. Contact SOUDAL Accumentric before writing specifications.

Section 10. Stability and Reactivity

Chemical Stability	Stable under recommended storage conditions.
Materials to Avoid / Incompatibilities	Strong acids, bases and strong oxidizers.
Conditions to Avoid	Exposure to elevated temperatures can cause product to decompose. Generation of gas during decomposition can cause pressure in closed systems. Avoid direct sunlight or ultraviolet sources.
Hazardous Polymerization	Will not occur
Thermal Decomposition	Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Aldehydes. Alcohols. Ethers. Organic Acids.

Section 11. Toxicological Information

Acute Toxicity	Ingestion LD50, Rat 20,000 - 34,000 mg/kg Skin Absorption

	LD50, Rabbit >20,000 mg/kg
Repeated Dose Toxicity	In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.
Chronic Toxicity and Carcinogenicity	Did not cause cancer in laboratory animals.
Developmental Toxicity	Did not cause birth defects or any other fetal effects in laboratory animals.
Reproductive Toxicity	In animal studies, did not interfere with reproduction.
Genetic Toxicity	In vitro toxicity studies were negative. Animal genetic toxicity studies were negative.

Section 12. Ecological Information

Chemical Fate	Data for Component: Propylene glycol Movement & Partitioning Bioconcentration potential is low (BCF less than 100 or log Pow less than 3). Potential for mobility in soil is very high (Koc between 1 and 50). Given its very low Henry's constant, volatilization from natural bodies of water or moist soil is not expected to be an important fate process.
Persistance and Degradability	Material is readily biodegradable. Passes OECD test(s) for ready biodegradability. Biodegradation may occur under anaerobic conditions. Indirect Photodegradation with OH Radicals Rate Constant: 1.28E-11 cm3/s Atmospheric Half-life: 10 h Method: Estimated OECD Biodegradtion Tests Biodegradation: 81% 95.8% Exposure time: 28 d 64 d Method: OECD 301F Test OECD306 Test Biological Oxygen Demand BOD BOD 5: 69% BOD 10: 70% BOD 20: 86% BOD 28: Chemical Oxygen Demand: 1.53 mg/mg Theoretical Oxygen Demand: 1.68 mg/mg
Ecotoxicity	Data for component: Propylene glycol Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50 >100 mg/L in the most sensitive species tested).

Section 13. Disposal

Waste Disposal Method	DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable

laws are the responsibility solely of the waste generator. VENDOR HAS NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL, THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Incinerator or other thermal destruction device.

Section 14. Transport Information

UN Number	N/A
UN Proper Shipping Name	N/A
DOT Classification	N/A
Packing Group	N/A
Road Shipment Information (DOT)	Not subject to DOT regulations.
Air Shipment (IATA)	Not subject to IATA regulations.
Ocean Shipment (IMDG)	Not subject to IMDG code.
Note	This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

Section 15. Regulatory Information

TSCA Status	All chemical substances found in this product comply with the Toxic Substances Control Act inventory reporting requirements.
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
SARA Title III Section 302 Extremely Hazardous Substances	None
SARA Titre III Section 304 CERCLA Substances dangereuses	None
SARA Title III Section 311/312 Hazard Class	Acute: No Chronic: No Fire: No Pressure: No Reactive: No
SARA Title III Section 313 Toxic Chemicals	None present or none present in regulated quantities.
Pennslyvania	Propylene glycol 57-55-6
CEPA - Domestic Substances List (DSL)	All substances contained in this product are listed on the Canadian Domestic Substances List (DSL) or are not required to be listed.

European Inventory of Existing Commercial Chemical Substances (EINECS)	The components of this products are on the EINECS inventory or are exempt from inventory requirements.

Section 16. Other Information

Revision Date	7/14/2015
Disclaimer	The data contained herein is based upon information that SOUDAL Accumetric 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.