Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification

Product Name Pentylene Glycol
Commercial Name Hydrolite-5
Product Use Not available.
Restrictions On Use Not available.

Product Code 30-3811

Company
PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: CFR 1910.1200 Serious eye damage: Category 1

Signal Word DANGER

Hazard Statement(s) Causes serious eye damage.

Pictogram(s) or Symbol(s)

Precautionary Statement(s):

Prevention P280 Wear eye protection/face protection.

Response P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER of doctor/physician.

Storage Not available.

Disposal Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance
Components Pentylene Glycol
% By Weight 100
CAS# Not available.
Molecular Weight 104 g/mol
Chemical Formula Not available.
Synonym(s) Not available.

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Pentylene Glycol	5343-92-0	100		

Section 4: First-Aid Measures

Inhalation Remove to fresh air immediately. Get medical attention immediately. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration.

Skin Contact Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. If symptoms persist, call a physician

Eye Contact Small amounts splashed into eyes can cause irreversible tissue damage and blindness. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Continue rinsing eyes during transport to hospital. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing.

Ingestion If accidentally swallowed obtain immediate medical attention. Clean mouth with water and drink afterwards plenty of water. Keep respiratory tract clear. Do NOT induce vomiting. Never give anything by mouth to an unconscious person.

Symptoms/Effects

Acute Causes serious eye damage. First aider needs to protect himself.

Delayed Causes serious eye damage. First aider needs to protect himself.

Immediate Medical Attention

First Aid responders should pay attention to self-protection and use the recommended protective clothing The first aid procedure should be established in consultation with the doctor responsible for industrial medicine. There is no specific antidote available.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Unsuitable Extinguishing Media

High volume water jet

Products of Combustion

Do not use a solid water stream as it may scatter and spread fire. Do not allow run-off from fire fighting to enter drains or water courses.

Firefighters Special Equipment and Precautions

In the event of fire and/or explosion do not breathe fumes. Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Use a water spray to cool fully closed containers. In the event of fire, wear self-contained breathing apparatus.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Use personal protective equipment. Ensure adequate ventilation. Evacuate personnel to safe areas. Environmental precautions: Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Methods and materials for containment and cleaning up: Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

Section 7: Handling and Storage

Advice on protection against fire and explosion: Normal measures for preventive fire protection. Advice on safe handling: Avoid formation of aerosol. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations. Conditions for safe storage: Keep container tightly closed in a dry and well-ventilated place. Electrical installations / working materials must comply with the technological safety standards. Materials to avoid: No special restrictions on storage with other products. Further information on storage stability: No decomposition if stored and applied as directed.

Section 8: Exposure Controls/Personal Protection

Exposure Limits Not available.

Engineering Controls Not available.

Personal Protection

Respiratory protection: Not required; except in case of aerosol formation. Hand protection Remarks: Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact). Wear chemicals-resistant gloves, e.g. safety gloves of nitril (thickness 0.4mm) or of butyl rubber (thickness 0.7mm). Eye protection: Eye wash bottle with pure water Tightly fitting safety goggles Wear face-shield and protective suit for abnormal processing problems. Skin and body protection: Impervious clothing Choose body protection according to the amount and concentration of the dangerous substance at the work place. Hygiene measures: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

Section 9: Physical and Chemical Properties

Appearance	Clear colorless liquid.
Odor	Charachteristic.
Odor Threshold	Not available.

Melting Point	Not available.	**pH**	Not available.
Freezing Point	Not available.	**Vapor Pressure**	0.000 mmHG @ 20 °C
Boiling Point/Range	408.9 °F / 209.4 °C (1,013 hP	**Vapor Density**	Not available.
Decomposition temperature	Not available.	**Viscosity**	77.1 mPa.s (68 °F / 20 °C) Method
Partition Coefficient: n-octanol/water	log Pow: 0.06 (77 °F / 25 °C)	**Evaporation Rate**	Lower than the evaporation rate of
Flash Point	> 212 °F / > 100 °C	**Autoignition temperature**	Not available.
Flammability	Not available.	**Flammability or Explosive Limits:**	
		Lower	Not available.
		Upper	Not available.

Solubility(ies)	Soluble in water - 1,000 g/l completely miscible (68 °F / 20 °C) pH: 7.5
Other	Not available.

Section 10: Stability and Reactivity

Reactivity	No decomposition if stored and applied as directed.
Chemical Stability	No decomposition if stored and applied as directed.
Hazardous Polymerization	Vapors may form explosive mixture with air.
Conditions to Avoid	Not available.
Incompatible Materials	Not available.
Hazardous Decomposition Products	Not available.

Section 11: Toxicological Information

RTECS Not available.

Acute Toxicity
Acute oral toxicity: LD50 rat Dose: > 5,000 mg/kg Method: OECD Test Guideline 401 Acute dermal toxicity: LD50 rat Dose: > 2,000 mg/kg Method: OECD Test Guideline 402 Acute inhalation toxicity: LC50 rat Dose: 7 mg/l

Skin Corrosion/Irritation
Not available.

Serious Eye Damage/Irritation
Causes serious eye damage.

Respiratory or Skin Sensitization
Not available.

Germ Cell Mutagenicity
Not available.

Carcinogenicity
Not available.

Reproductive Toxicity
Not available.

Routes of Entry
Not available.

Symptoms Related to Exposure
Not available.

Potential Health Effects
Not available.

Target Organ(s) Not available.

Section 12: Ecological Information

Ecotoxicity
Products of Biodegradation: Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise. Toxicity of the Products of Biodegradation: The products of degradation are more toxic. Toxicity to fish: LC50 Species: Rainbow trout (Salmo gairdneri) Dose: > 1,000 mg/l

Persistance and Degradability
Not available.

Bioaccumulative Potential
Not available.

Mobility in Soil
Not available.

Other Adverse Effects
Not available.

Section 13: Disposal Considerations

Waste Disposal
Do not dispose of waste into sewer. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Disposal of Container
Dispose of as unused product. Empty containers should be taken to an approved waste handling site for recycling or disposal. Do not re-use empty containers.

Other Considerations
Not available.

Section 14: Transport Information

DOT Classification
Not a DOT controlled material (United States). Not classified as dangerous in the meaning of transport regulations. This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information

Regulations
SARA 311/312 Hazards: Serious eye damage or eye irritation

Other
In accordance with SARA CERCLA 302.4 Regulations, if a release occurs in a quantity equal to or exceeding the reportable quantity, notification must be immediately made to the National Response Center at 800-424-8802. A release is considered any spilling, leaking, pumping, pouring, emitting, emptying, discharging, escaping, dumping or disposing into the environment.

Section 16: Other Information

These safety guidelines are based on information obtained from reliable sources. Prudent use and handling as part of good manufacturing practices is advised. Employees must be trained to handle material safely and wear recommended P.P.E. This new MSDS was created to conform with OSHA hazard communication standard 29CFR 1910.1200. Please discard previous form. This MSDS was prepared by the Regulatory Affairs Department.