

SAFETY DATA SHEET

HD6905/6945
PIPEMATE

Preparation Date: 16/Sep/2020

Version: 1

1. IDENTIFICATION

Product identifier

Product Name PIPEMATE

Other means of identification

SDS Number HD6905/6945

Synonyms None

Recommended use of the chemical and restrictions on use

Recommended Use Intended as a heat transfer fluid for closed-loop systems.

Restricted Uses No information available

Initial Supplier Identifier

Hood Chemical
295 Alliance Rd. Unit #14
Milton, Ontario L9T 4W8
Telephone: 1-800-567-9791

Emergency telephone number

24 Hour Emergency Phone Number (CANUTEC): 1-888-226-8832 (1-888-CAN-UTEC)

2. HAZARD IDENTIFICATION

Hazardous Classification of the substance or mixture

None

Label elements

Hazard pictograms None

Hazard statements

The mixture does not meet the criteria for classification.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance

Not applicable.

Mixture

Chemical Name	CAS No	Weight-% (W/W)	Synonyms
Propylene glycol	57-55-6	90 - 100%	Propylene glycol
Water	7732-18-5	1-5	Water
Dipotassium phosphate	7758-11-4	1-5	Dipotassium phosphate

4. FIRST-AID MEASURES

Description of first aid measures

Inhalation

Remove to fresh air. If not breathing, give artificial respiration. Seek immediate medical attention/advice.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

Wash skin with soap and water. Get medical attention if irritation develops and persists.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed:

No adverse health effects are expected from swallowing. May cause slight transient (temporary) eye irritation. No significant irritation expected from a single short-term exposure. Prolonged contact is essentially non irritating to skin. Repeated contact may cause flaking and softening of skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts. In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

Indication of any immediate medical attention and special treatment needed:

Note to physicians

Provide symptomatic/supportive care as necessary.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Specific hazards arising from the substance or mixture

Isolate and restrict area access. Use fine water spray or fog to control fire spread and cool adjacent structures or containers. Move containers from fire area if you can do it without risk. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Fight fire from a safe distance and from a protected location. Consider use of unmanned hose holder or monitor nozzles.

Hazardous combustion products

Oxides of carbon.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.

Methods and materials for containment and cleaning up

Isolate hazard area and restrict access. Absorb with an inert dry material and place in an appropriate waste disposal container. Avoid direct contact with material.

7. HANDLING AND STORAGE

Precautions for safe handling

No special handling required. Keep the containers closed when not in use. Spills of these organic materials on hot fibrous insulations may lead to lowering of the autoignition temperature possibly resulting in spontaneous combustion.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters**Exposure Limits**

Chemical Name	Alberta OEL	British Columbia OEL	Ontario	Quebec OEL	Exposure Limit - ACGIH	Immediately Dangerous to Life or Health - IDLH
Propylene glycol 57-55-6	Not available	Not available	TWA: 10 mg/m ³ TWA: 50 ppm	Not available	Not available	Not available

			TWA: 155 mg/m ³			
Water 7732-18-5	Not available	Not available	Not available	Not available	Not available	Not available
Dipotassium phosphate 7758-11-4	Not available	Not available	Not available	Not available	Not available	Not available

Consult local authorities for recommended exposure limits

Appropriate engineering controls

Engineering controls

Use in a well ventilated area. Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

Individual protection measures, such as personal protective equipment

Eye/face protection

Chemical goggles; also wear a face shield if splashing hazard exists.

Hand protection

Impervious gloves.

Skin and body protection

Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Respiratory protection

In misty atmospheres, use an approved mist respirator.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state	Liquid
Color	Colorless to Yellow
Odor	Characteristic
Odor threshold	No information available

PROPERTIES

Values

Remarks • Method

pH	9.5 (50%)	
Melting point / freezing point	-51 °C / -60 °F	(propylene glycol)
Initial boiling point/boiling range	152 °C / 306 °F	(propylene glycol)
Flash point	104 °C / 219 °F	Pensky-Martens Closed Cup
Evaporation rate	<0.5	None known
Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit:	12.5 (130°C)	
Lower flammability limit:	2.6 (100°C)	
Vapor pressure	2.2 mmHg	None known
Relative vapor density	>1.0	None known

Specific Gravity	1.07	
Water solubility	Soluble in water	
Solubility in other solvents	No data available	
Partition coefficient	No data available	
Autoignition temperature	371 °C / 700 °F	(propylene glycol)
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Molecular weight	No information available	
VOC Percentage Volatility	No information available	
Liquid Density	No information available	
Bulk density	No information available	

10. STABILITY AND REACTIVITY

Reactivity/Chemical Stability

Stable under normal conditions

Possibility of hazardous reactions

No additional remark.

Conditions to avoid

High temperatures.

Incompatible materials

Strong acids and bases. Contact with oxidizing agents.

Hazardous decomposition products

Oxides of carbon.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

No significant irritation expected from a single short-term exposure. In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.

Eye contact

May cause slight transient (temporary) eye irritation.

Skin contact

Prolonged contact is essentially non irritating to skin. Repeated contact may cause flaking and softening of skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Ingestion

No adverse health effects are expected from swallowing.

Information on toxicological effects

Symptoms

No additional information available.

Numerical measures of toxicity

Acute toxicity

The following values are calculated based on chapter 3.1 of the GHS document .

ATEmix (oral)	34,483.00 mg/kg
ATEmix (dermal)	35,862.00 mg/kg

Unknown acute toxicity No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Propylene glycol 57-55-6	= 20 g/kg (Rat)	= 20800 mg/kg (Rabbit)	Not available
Water 7732-18-5	> 90 mL/kg (Rat)	Not available	Not available
Dipotassium phosphate 7758-11-4	Not available	Not available	Not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Prolonged contact is essentially non irritating to skin. Repeated contact may cause flaking and softening of skin. Prolonged skin contact is unlikely to result in absorption of harmful amounts.

Serious eye damage/eye irritation

May cause slight transient (temporary) eye irritation.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Propylene glycol 57-55-6	Not available	Not available	Not available	Not available
Water 7732-18-5	Not available	Not available	Not available	Not available
Dipotassium phosphate 7758-11-4	Not available	Not available	Not available	Not available

Reproductive toxicity

In vitro genetic toxicity studies were negative. Animal genetic toxicity studies were negative.

Specific target organ systemic toxicity - single exposure

No information available.

Specific target organ systemic toxicity - repeated exposure

No information available.

Aspiration hazard

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Chemical Name	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Fish Species Data	Toxicity to microorganisms	Crustacea
Propylene glycol 57-55-6	19000 mg/L EC50 Pseudokirchneriella subcapitata 96 h	41 - 47 mL/L LC50 (Oncorhynchus mykiss) 96 h static 51400 mg/L LC50 (Pimephales promelas) 96 h static 51600 mg/L LC50 (Oncorhynchus mykiss) 96 h static 710 mg/L LC50 (Pimephales promelas) 96 h	Not available	EC50: >1000mg/L (48h, Daphnia magna) EC50: >10000mg/L (24h, Daphnia magna)
Water 7732-18-5	Not available	Not available	Not available	Not available
Dipotassium phosphate 7758-11-4	Not available	Not available	Not available	Not available

Persistence and degradability No information available.

Bioaccumulation No information available.

Chemical Name	Partition coefficient
Propylene glycol 57-55-6	Not available
Water 7732-18-5	Not available
Dipotassium phosphate 7758-11-4	Not available

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

14. TRANSPORT INFORMATION

TDG (Canada):

UN Number	Not applicable
Shipping name	Not regulated
Class	Not applicable
Packing Group	Not applicable
Marine pollutant	Not available.

DOT (U.S.)

UN Number Not applicable
 Shipping name Not regulated
 Class Not applicable
 Packing Group Not applicable
 Marine pollutant Not available

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Regulatory Rules

Chemical Name	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Propylene glycol - 57-55-6	Not Listed	Not Listed	Not Listed
Water - 7732-18-5	Not Listed	Not Listed	Not Listed
Dipotassium phosphate - 7758-11-4	Not Listed	Not Listed	Not Listed

International Inventories

TSCA All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

DSL/NDSL All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

16. OTHER INFORMATION

NFPA: Health hazards 0 Flammability 1 Instability 0 Physical and chemical properties -

HMIS: Health hazards 0 Flammability 1 Physical hazards 0 Personal protection X

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
 Ceiling Maximum limit value * Skin designation

Prepared By: The Environment, Health and Safety Department of Univar Canada Ltd.

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End of Safety Data Sheet

Region	The following sections have been revised: Revision Note 2.0	Canada
Template name	HGHS	
Inhalation Statement	Liquid or Aerosol	
Inhalation	No significant irritation expected from a single short-term exposure. In rare cases, repeated excessive exposure to propylene glycol may cause central nervous system effects.	
Conditions to avoid	Moisture.	
Possibility of hazardous reactions	No additional remark.	
Symptoms	In animals, blood effects have been reported.	
Note to physicians	Inhalation exposure may result in respiratory tract injury, the delayed onset of pulmonary edema and may predispose patient to secondary respiratory infection. Persons exposed to high concentrations should be hospitalized for observation.	
Storage Conditions	Store in a cool, dry, well ventilated area, away from heat and ignition sources. Place away from incompatible materials. Store in accordance with good industrial practices. Store under cool, dark, dry conditions.	
Engineering controls	Use in a well ventilated area.	
Hand protection	4H(R).	
Respiratory protection	Where misting may occur, wear a MSHA/NIOSH approved half-mask air purifying respirator equipped with an organic vapor cartridge.	

pH	9.5 (50%)
Physical state	Liquid
Flash point °C - VALUE 1	104
Boiling point / boiling range °C - VALUE 1	152
Flash Point:	&102&216 &(Propylene Glycol)&&&

GHS Classification

Not Hazardous	Not classified			
GHS Physical Hazard Category Number	None			
Component	Exclude this non-hazardous chemical from toxicity and ecotoxicity calculations for	mg/kg oral LD50 (rat)	LD50 (Dermal, Rat, mg/kg)	Inhalation LC50 - 4 hour - dust/mist - mg/L
			Inhalation LC50 - 4 hour - gas - ppm	Inhalation LC50 - 4 hour - vapor - mg/L
				Inhalation LC50 - 4 hour - vapor - mg/L

	LD/LC/EC50					
Propylene glycol	-	-	-	-	-	-
57-55-6 (90 - 100%)						
Water	-	-	-	-	-	-
7732-18-5 (1-5)						
Dipotassium phosphate	-	-	-	-	-	-
7758-11-4 (1-5)						
Hazard statements	EUH210 - Safety data sheet available on request					
Hazard statements	The mixture does not meet the criteria for classification.					
The following values are calculated based on chapter 3.1 of the GHS document						
ATEmix (oral)	34,483.00					
Units	mg/kg					
ATEmix (dermal)	35,862.00					
Units	mg/kg					
Unknown acute toxicity	2 % of the mixture consists of component(s) of unknown hazards to the aquatic environment					
Unknown Acute Aquatic Toxicity	2					
Unknown Chronic Aquatic Toxicity	2					
Product ATE Oral Status	1					
Product ATE Dermal Status	1					
Product ATE Inhalation - Gas Status	1					
Product ATE Inhalation - Vapor Status	1					
Product ATE Inhalation - Dust/Mist Status	1					
Product Skin Corrosion Status	1					
Product Eye Damage Status	1					
Product Respiratory Sens. Status	1					
Product Skin Sensitization Status	1					
Product Mutagenic Status	1					
Product Carcinogenic Status	1					
Product Reproductive Toxicity Status	1					
Product STOT Single Status	1					
Product STOT Repeated Status	1					
Product Aquatic Toxicity Status	1					
Product Aspiration Toxicity Status	1					
Product Ozone Status	1					
Product and Component Overall	1					
Classification Status						
Unknown acute toxicity	60					
2 % of the mixture consists of ingredient(s) of unknown acute oral toxicity						
2 % of the mixture consists of ingredient(s) of unknown acute dermal toxicity						
60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (gas)						
60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (vapor)						
60 % of the mixture consists of ingredient(s) of unknown acute inhalation toxicity (dust/mist)						