

MATERIAL SAFETY DATA SHEET

1. IDENTIFICATION OF SUBSTANCE AND PREPARATION

Supplier/Manufacturer:

American Polywater Corporation

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Stillwater, MN 55082 USA
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Polywater Europe BV

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Netherlands
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Emergency Number: +1-651-430-2270

**Product Name: Type HP™
Cleaner/Degreaser**

Chemical Description: Hydrocarbon/Terpene
Solvent Blend

Product Use: Cleaning Preparation

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS #</u>	<u>EC #</u>	<u>Wt %</u>
Medium Aliphatic Petroleum Solvent	64742-47-8	265-149-8	< 100
Citrus Terpenes	94266-47-4	304-454-3	< 25

3. HAZARDS IDENTIFICATION

Emergency Overview:

Combustible. Keep away from fire and flame. Use with adequate ventilation. Do not ingest. May cause skin irritation. Avoid contact with skin. In case of eye contact, flush eyes with water. Keep out of reach of children.

Eye Contact:

Direct eye contact with vapors or splashes may cause eye irritation. This irritation is minimal and expected to be transient.

Skin Contact:

Prolonged or repeated skin exposure can remove oils, causing redness, drying and cracking. Persons with pre-existing skin disorders may be more susceptible to skin irritation from this material.

Irritation and Sensitization Potential:

Product may be irritating to skin and eyes. It is not a sensitizer.

Inhalation (Breathing):

Concentrated petroleum solvent vapors may cause irritation of the nose and throat. Prolonged exposure to excessively high vapor concentrations can result in central nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue). Persons with impaired lung function may experience additional breathing difficulties due to the irritant properties of this material.

Ingestion (Swallowing):

Ingestion of large quantities may cause irritation of the digestive tract, nervous system depression (e.g., drowsiness, dizziness, loss of coordination, and fatigue).

4. FIRST AID MEASURES

Eye Contact:	If eye irritation from exposure to vapors develops, move to fresh air. Flush eyes with clean water. If irritation persists, seek medical attention. For direct eye contact, flush with large quantity of water for 15 minutes. Seek medical attention.
Skin Contact:	Remove contaminated clothing; flush skin thoroughly with water. If irritation occurs, seek medical attention.
Inhalation (Breathing):	If irritation of nose or throat develops, move to fresh air. If irritation persists, seek medical attention. If breathing is difficult, provide oxygen. If not breathing, give artificial respiration. Seek immediate medical attention.
Ingestion (Swallowing):	Do not induce vomiting or give anything by mouth. If victim is drowsy or unconscious, place on the left side with head down. Do not leave victim unattended. Seek medical attention.

5. FIRE-FIGHTING MEASURES

Flash Point:	>140°F / 60.5°C (PMCC)
Flammable Limits:	LEL = 0.7% UEL = 6.1%-7.0%
Autoignition Temperature:	Not Available
Hazardous Decomposition and By-Products:	Burning generates CO, CO ₂ and smoke. Smoke may be acrid and fumes irritating.
Extinguishing Media:	Carbon Dioxide, Dry Chemical or Foam.
Special Precautions:	Wear full protective clothing, including self-contained, positive pressure or pressure-demand breathing apparatus. Sealed container can build up pressure when exposed to high heat. Use water spray to cool fire-exposed containers.
Unusual Hazards:	If the solvent is ignited, treat as petroleum solvent fire.

6. ACCIDENTAL RELEASE MEASURES

For small spills, absorb with sand or absorbents. For large spills, stay upwind and away from spill. Keep all sources of ignition away from spill. If spill is indoors, ventilate area of spill. Foam, especially high expansion foam, may be used to suppress vapors. Keep out of drains, sewers or waterways. Use sand or other inert material to dam and contain spill. Do not flush area with water.

7. HANDLING AND STORAGE

Keep containers tightly closed. Keep containers cool, dry, and away from sources of ignition. Use and store this product with adequate ventilation. Avoid inhalation of vapors and personal contact with the product. Use good personal hygiene practice. All containers should be disposed of in an environmentally safe manner and in accordance with governmental regulations.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Respiratory Protection:	Normal ventilation is adequate. If exposure exceeds recommended limits, respirator protection is recommended. Use a respirator or gas mask with cartridges for organic vapors (NIOSH-approved) or use supplied air equipment.						
Protective Gloves:	For repeated or prolonged skin contact, the use of impermeable gloves is recommended to prevent drying and possible irritation.						
Eye Protection:	Eye protection is recommended, especially if the material is used in ways where it could splash in the eyes.						
Other Protective Equipment:	It is suggested that a source of clean water be available in work area for flushing eyes and skin. Impervious clothing should be worn as needed.						
Exposure Limits and Recommendations:	<table><tr><td><u>Chemical Component</u></td><td><u>OSHA PEL</u></td><td><u>ACGIH TLV</u></td></tr><tr><td colspan="3">500 ppm TLV is suggested by the manufacturer for Type HP™ Solvent. TLV values for components have not been determined by OSHA/ACGIH.</td></tr></table>	<u>Chemical Component</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	500 ppm TLV is suggested by the manufacturer for Type HP™ Solvent. TLV values for components have not been determined by OSHA/ACGIH.		
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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Clear, colorless liquid with a very light citrus scent.
Odor Threshold:	Not Available
Vapor Density (Air = 1):	Not Available
Specific Gravity (H₂O = 1):	0.79
Solubility in Water:	Nil
Boiling Point:	185 °C (initial)
Freezing Point:	<-50 °C
Evaporation Rate:	<0.1 (n-butyl acetate = 1)
Vapor Pressure:	<1 mm Hg @ 20 °C
Coefficient of Water/Oil Distribution:	Not Available
pH:	Not Applicable
Volatiles (Weight %):	100%
VOC Content:	790 g/l

10. STABILITY AND REACTIVITY

Stability:	Stable
Conditions to Avoid:	Avoid heat, flame, sources of ignition.
Materials to Avoid:	Strong oxidizing agents.
Hazardous Decomposition Products:	Carbon dioxide, carbon monoxide.

11. TOXICOLOGICAL INFORMATION

Toxicity to Animals:	Medium Aliphatic Petroleum Solvent	LD ₅₀ (oral rat) >5000 mg/kg LD ₅₀ (dermal rabbit) >2000 mg/kg LC ₅₀ (inhl rat) >4.3mg/L, 4 hours
	Citrus Terpenes	LD ₅₀ (oral rat) >5000 mg/kg LD ₅₀ (dermal rabbit) 5000 mg/kg RD ₅₀ 1000 ppm
Chronic Exposure:	Not Available	
Carcinogenic Status:	This substance has not been identified as a carcinogen or probable carcinogen by NTP, IARC, or OSHA, nor have any of its components.	
Reproductive Toxicity:	Not Available	
Mutagenicity:	Not Available	
Teratogenicity:	Not Available	
Toxicologically Synergistic Products:	Not Available	

12. ECOLOGICAL INFORMATION

Mobility:	No information available.
Biodegradability:	Expected to be biodegradable.
Ecotoxicity:	No information available.
Aquatic Toxicity:	May cause long-term adverse effects in the aquatic environment.

13. DISPOSAL CONSIDERATIONS

Dispose of product in accordance with National and Local Regulations.

14. TRANSPORTATION INFORMATION

UN Number:	Not Listed
UN Proper Shipping Name:	Not Applicable
Class and Subsidiary Risk:	Not Applicable
Packing Group:	Not Applicable
TDG:	Not Regulated
ICAO/IATA-DGR:	Not Regulated
IMDG:	Not Regulated
ADR/RID:	Not Regulated

15. REGULATORY INFORMATION**USA Federal and State**

All components are listed on the TSCA inventory.

Hazard Categories for SARA Section 311/312 Reporting	<u>Acute</u> No	<u>Chronic</u> No	<u>Fire</u> Yes	<u>Pressure</u> No	<u>Reactive</u> No
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	CERCLA/SARA Sec 302		SARA Sec. 313
<u>Components</u>	<u>Hazardous Substance RQ</u>	<u>EHS TPQ</u>	<u>Toxic Release</u>

Components are not affected by these Superfund regulations.

European Union

Product is classified as hazardous according to European Directives 88/379/EEC and 67/548/EEC and EU Regulation (EC) No 1272/2008.

Risk Phrases: R65: Harmful: may cause lung damage if swallowed

Safety Phrases: S2: Keep out of the reach of children
S23: Do not breathe vapor
S24: Avoid contact with skin
S62: If swallowed, do not induce vomiting: seek medical advice immediately

Symbol: Xn: Harmful

Product complies with the communication requirements of REACH Regulation (EC) No. 1907/2006. It does not contain Substances of Very High Concern (SVHC).

Canada

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

WHMIS Classification: B3

Canadian DSL: All ingredients listed.

Australia

All components are listed on the AICS.

Hazardous according to criteria of NOHSC Australia. Product classified as harmful (Xn).

Contact Information: ADAPT Australia Pty. Ltd.
11 - 19 Global Drive
Tullamarine Victoria 3043
Telephone Number. 03 9330 0666

Emergency Telephone Number: 0421 277 889

16. OTHER INFORMATION

NFPA Ratings:	Health:	1
	Fire:	2
	Reactivity:	0

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel during spill, fire or similar emergencies. Hazard ratings are based on physical and toxic properties of combustion or decomposition.

Revision Date:	May 13, 2010
Revision Number:	1
Reviewed By:	S. H. Dahlke

The information and recommendations contained herein are believed to be reliable. However, the supplier makes no warranties, express or implied, concerning the use of this product. The buyer must determine conditions of safe usage and assumes all risk and liability in handling this product.

HP:MSDS