

Material Safety Data Sheet

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Silicon Mold Release

SECTION I PRODUCT IDENTIFICATION

MANUFACTURER: PACE Technologies
1802 W. Grant Rd. No. 102
Tucson, AZ 85745

INFORMATION PHONE: 520-882-6598

EMERGENCY PHONE: CHEMTREC 800-424-9300 (US) Day or night
International call collect CHEMTREC 202-483-7616

TRADE NAME: Silicon Mold Release

Generic Description: Petroleum naphthas and/or solvents which are a complex blend of light petroleum distillates.

Physical Form: Liquid

Color: Clear

Odor: Characteristic fragrance

HMS RATING: HEALTH: 1 FLAMMABILITY: 1 REACTIVITY: 0

HAZARD RATING:
LEAST: 0 SLIGHT: 1 MODERATE: 2 HIGH: 3 EXTREME: 4

SECTION II COMPONENT INFORMATION

CAS Number	Wt%	Component	Hazardous in Blend
64742-47-8	50-90	Hydrotreated light distillate	Yes
Trade secret	10-50	Silicone	No
Trade secret	<5	Fragrance	No

This product is HAZARDOUS according to OSHA 29 CFR 1910.1200.

Hazards:

Flammable/Combustible X

Acute Toxin X

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SECTION III HAZARDS IDENTIFICATION

CAUTION: Prolonged and repeated skin contact may cause drying of skin.

Primary Route of Exposure: Skin Inhalation Eye

- EYE:** Avoid eye contact. This product may be slightly irritating to the eyes upon direct contact. Based on testing of similar products and/or components. Exposure to high concentrations of vapors may be irritating to the eyes.
- SKIN:** Avoid skin contact. This product may cause slight skin irritation upon direct contact. Based on testing of similar products and/or components. Prolonged or repeated skin contact may result in dryness, chapping, and reddening. May be absorbed through skin.
- INHALATION:** This product is not expected to pose an inhalation hazard under conditions of foreseeable use. Avoid prolonged inhalation of vapors. This product may be considered a low health hazard unless inhaled in very high concentrations. Acute and chronic exposure to vapors may be irritating to the respiratory tract. Severe intoxication may lead to drowsiness, dullness, numbness, and headache followed by dizziness, weakness, and nausea. Intentional misuse by deliberately concentrating and inhaling this product can be harmful or fatal.
- INGESTION:** Do not ingest. Ingestion is expected to be relatively non-toxic unless aspiration occurs. Aspiration may lead to chemical pneumonitis which is characterized by pulmonary edema and hemorrhage and may be fatal. Signs of lung involvement include increased respiratory rate, increased heart rate, and a bluish discoloration of the skin. Coughing, choking, and gagging are often noted at the time of aspiration. Gastrointestinal discomfort may develop, followed by vomiting with a further risk of aspiration. Severe oral intoxication will lead to intense burning of the throat and may result in drowsiness, dullness, numbness, and headache followed by dizziness, weakness, and nausea. Loss of consciousness and convulsions followed by death may result.

Medical Conditions Aggravated by Exposure: Drying and chapping may make the skin more susceptible to other irritants, sensitizers and disease.

Other: No information available

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SECTION IV FIRST AID INFORMATION

- EYES:** Immediately flush with large amounts of water and continue flushing until irritation subsides. If irritation persists, seek medical attention.
- SKIN:** No treatment is necessary under ordinary circumstances. Remove contaminated clothing. Wash contaminated area thoroughly with soap and water. If redness or irritation occurs and persists, seek medical attention. Use a hand or skin lotion to prevent dryness.
- INHALATION:** If victim exhibits signs of vapor intoxication remove to fresh air. If discomfort persists seek medical attention.
- INGESTION:** Do not induce vomiting due to aspiration hazard. If vomiting occurs lower head below knees to avoid aspiration. Seek immediate medical attention.
- NOTES TO PHYSICIAN:** Non information available.

SECTION V FIRE AND EXPLOSION INFORMATION

Flash Point:	> 188°F / 86.7°C (ASTM D 3828-81-Setaflash)
Autoignition Temperature:	No data available
Flame Extension:	Upper percent: No data available Lower percent: No data available
Extinguishing Media:	Use water spray (fog), dry chemical, foam, or carbon dioxide.
Fire Fighting Procedures:	No special fire fighting procedures are required.
Unusual Fire and Explosion Conditions:	Dense smoke may be generated while burning. Carbon monoxide, carbon dioxide, and other oxides may be generated as products of combustion.
Hazardous Decomposition Products:	None
Other:	No information available
NFPA Classification:	Class III-A combustible liquid

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SECTION VI ACCIDENTAL RELEASE MEASURES

Personnel Safeguards:	Remove all sources of ignition. Consult Health Effect Information in Section III, Personal Protection Information in Section VIII, Fire and Explosion Information in Section V, and Stability and Reactivity Information in Section X. Provide adequate ventilation during clean-up.
Regulatory Notification:	No notification required.
Containment and Clean-up:	Do not allow spill to enter sewers or watercourses. Absorb with solvent absorbent material.
Other:	No information available.

SECTION VII HANDLING AND STORAGE

Handling:	All ignition sources in the area should be controlled. Do not open or use in unventilated, enclosed or confined spaces.
Storage:	Do not transfer to unmarked containers. Store in a cool, well ventilated area in closed containers away from heat, sparks, open flame or oxidizing materials.
Empty Container Warnings:	Drums: Not applicable Plastic: Empty container may retain product residues. Do not reuse this container.
Other:	No information available.

SECTION VIII EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits and Guidelines: This product does not contain any components with OSHA or ACGIH exposure limits.

Personal Protective Equipment For Routine Handling

Eyes/Face Protection:	Eye protection is not required under conditions of normal use. If material is handled such that it could be splashed into eyes, wear plastic face shield or splash-proof safety goggles.
Skin Protection:	No skin protection is required for single, short duration exposures. For prolonged or repeated exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body which

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exposures, use impervious clothing (boots, gloves, aprons, etc.) over parts of the body subject to exposure. Lunder soiled clothes.

Respiratory Protection: Respiratory protection is not required under conditions of normal use. If excessive levels of mists or vapors are generated while using this product, use an organic vapor respirator. All respirators must be NIOSH certified. See Section III, Health Effect Information, Inhalation.

Personal Hygiene: Consumption of food and beverage should be avoided in work areas where hydrocarbons are present. Always wash hands and face with soap and water before eating, drinking, or smoking.

Engineering Controls / Work Practices: General room ventilation is normally sufficient to prevent buildup of hazardous concentrations. If product is used in enclosed or confined spaces, adequate ventilation must be provided to prevent buildup of vapors of mists.

Other: The OSHA PEL and ACGIH TLV for stoddard solvent is 525 mm/m³. NIOSH recommended limits for petroleum distillates are 350 mg/m³ (10-hr TWA) and 1800 mg/m³ (15-min ceiling).

SECTION IX PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid	Color: Clear colorless
Odor: Cherry	Specific Gravity @ 25°C: 0.83
Viscosity@ 100°F: 118 SUS Viscosity@ 40°F: 24 cSt	Melting Point: No data available
Boiling Point: 350°F, 176.7°C	Vapor Pressure @ 25°C: No data available
Vapor Density: No data available	Solubility in Water: Insoluble in water
pH: Not Applicable	Volatile Organic Content: No data available
Pour Point: No data available	Molecular Weight: No data available
Average Carbon Number: No data available	Octanol/ Water Coefficient: Log K_{ow} = No data available

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SECTION X STABILITY AND REACTIVITY

Chemical Stability:	Stable.
Conditions to Avoid:	Keep away from heat, sparks, open flames and other ignition sources.
Incompatible Materials to Avoid:	May react with strong oxidizing agents.
Other:	No information available.

SECTION XI TOXICOLOGY INFORMATION

Primary Eye Irritation:	No information available
Primary Skin Irritation:	No information available
Acute Dermal Toxicity:	No information available
Subacute Dermal Toxicity:	No information available
Dermal Sensitization:	No information available
Inhalation Toxicity:	No information available
Inhalation Sensitization:	No information available
Oral Toxicity:	No information available
Mutagenicity:	No information available
Carcinogenicity:	Light hydrocarbons such as stoddard solvent, VM&P naphtha and C10-C11 isoparaffins have produced kidney damage in male rats, but not in female rats or mice. The Environmental Protection Agency (EPA) has concluded that rat kidney damage and tumors induced by light petroleum hydrocarbons are not relevant to humans. Various naphthas tested were not carcinogenic in mouse skin painting studies conducted by the American Petroleum Institute (API). The International Agency for Research on Cancer (IARC) has concluded that petroleum solvents are Group 3 substances, "not classifiable as to their carcinogenicity to humans".
Reproductive and Developmental Toxicity:	No information available

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Teratogenicity:	No information available
Immunotoxicity:	No information available
Neurotoxicity:	No information available
Other:	No information available

SECTION XII ECOLOGICAL INFORMATION

Aquatic Toxicity:	May be toxic to aquatic organisms.
Terrestrial Toxicity:	No information available
Chemical Fate and Transport:	This substance is expected to biodegrade at a moderate rate and be "inherently" biodegradable according to OECD guidelines.
Other:	No information available

SECTION XIII DISPOSAL INFORMATION

Regulatory Information:	Dispose of residual products and empty containers responsibly. Refer to state and local regulations for additional disposal requirements.
Waste Disposal Methods:	Waste material may be landfilled or incinerated at an approved facility. The discarded material should be recycled if possible.
Other:	No information available

SECTION XIV TRANSPORT INFORMATION

U.S. Department of Transportation (DOT)
–Highway / Rail (Bulk): NOT APPLICABLE
–Highway / Rail (Non-Bulk): Not Regulated

The DOT description is provided to assist in the proper shipping classification of this product and may not be suitable for all shipping descriptions.

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International Information

-Vessel: IMDG Regulated: _X_

-Air: ICAO Regulated: _X_

SECTION XV REGULATORY INFORMATION

Regulatory Lists Searched: The components listed in Section II of this MSDS were compared to substances that appear on the following regulatory lists. Each list is numerically identified. See Regulatory Search Results below.

Health and Safety: 10-IARC carcinogen, 11-NTP carcinogen, 12-OSHA carcinogen, 15-ACGIH TLV, 16-OSHA PEL, 17-NIOSH exposure limit, 20-US DOT Appendix A, Hazardous substances, 22-FDA 21 CFR Total food additives, 23-NFPA 49 or 325

Environmental: 30-CAA 1990 Hazardous air pollutants, 31-CAA Ozone depleters, 33-CAA HON rule, 34-CAA Toxic substance for accidental release prevention, 35-CAA Volatile organic compounds (VOC's) in SOCM, 41-CERCLA/SARA Section 302 extremely hazardous substances, 42-CERCLA/SARA Section 313 emissions reporting, 43-CWA Hazardous substances, 44-CWA Priority pollutants, 45-CWA Toxic pollutants, 46-EPA Proposed test rule for hazardous air pollutants, 47-RERA Basis for listing – Appendix VII, 48-RCRA waste, 49-SDWA-(S)MCLs

International: 50-Canada – WHMIS Classification of substance, 54-Mexico – Drinking water – ecological criteria, 55-Mexico – Wastewater discharges, 56-US – TSCA Section (12)(b) – export notification

State Lists: 60-CA – Proposition 65, 61-FL – substances, 62-MI – Critical materials, 63-MA – RTK, 64-MA – Extraordinarily hazardous substances, 65-MN – Hazardous substances, 66-PA – RTK, 67-NJ – RTK. 68-NJ – Environmental hazardous substances, 69-NJ – Special hazardous substances

Inventories: 80-Canada – Domestic substances, 81-European – EINECS, 82-Japan – ENCS, 83-Korea – Existing and evaluated chemical substances, 84-US – TSCA, 85-China Inventory

Regulatory Search Results:

HYEROTREATED LIGHT DISTILLATE: 80,81,83,84,85

U.S. TSCA Inventory: All components of this material are on the US TSCA Inventory.

SARA Section 313: Consumer products are not regulated under SARA, Title III, Section 313.

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IARC: No information available

SARA 311 / 312 Categories:

Acute:	Y
Chronic:	N
Fire:	Y
Pressure:	N
Reactive:	N

Y = Yes N = No

Canadian WHMIS Classification:

Class B – Flammable and Combustible Material, Division 3, Combustible Liquid

Class D – Poisonous and infectious material, Division 2B, Toxic Material

European Union Classification:

Hazard Symbols: Harmful/Xn/X in square.

Risk Phrases:

R65: Harmful: may cause lung damage if swallowed.

R66: Repeated exposure may cause skin dryness or cracking.

R67: Vapors may cause drowsiness and dizziness.

R51/53: Toxic to aquatic organism, may cause long term adverse effects in the aquatic environment.

Safety Phrases:

S2: Keep out of the reach of Children.

S23: Do not breathe gas/fumes/vapors/spray.

S24: Avoid contact with skin.

S62: If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

Other : No information available

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SECTION XVI OTHER INFORMATION

Health and Environmental Label Language

CAUTION: Contains petroleum solvents. Prolonged and repeated skin contact may cause drying of skin.

PRECAUTIONARY MEASURES: Keep away from heat, sparks, flame and other ignition sources. Avoid breathing of vapors. Use only in well ventilated areas. Avoid contact with eyes. Wash thoroughly after handling.

FIRST AID: If swallowed, do not induce vomiting. Call physician immediately. If inhaled, breathe fresh air. For skin or eye contact, wash thoroughly with water.

KEEP OUT OF REACH OF CHILDREN

FOR COMPANY USE

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