

SECTION I – PRODUCT AND COMPANY IDENTIFICATION

Name of the Product: PolyStar 50

Product Code: FG0555

Recommended Use: Coating

Producer:

Perma Incorporated
605 Springs Road
Bedford, MA 01730

Telephone Number for Information - (978)667-5161

Emergency Phone Number - (800)255-3924 ChemTel Inc.

SECTION II – HAZARD(S) IDENTIFICATION

Classification:

Flammable liquid, Category 3
Skin irritation, Category 3
Eye irritation, Category 2B
Hazardous to the aquatic environment, Chronic Category 4

Labeling:

Symbol: Flame, Exclamation mark
Signal Word: Warning

Hazard Statement:

Flammable liquid and vapor.
Causes mild skin irritation.
Causes eye irritation.
May cause long lasting harmful effects to aquatic life.

Precautionary Statements:

Keep container tightly closed when not in use.
Keep away from heat, sparks and or open flame.
No smoking.
Wear protective gloves and eye/face protection.
Avoid contact with skin, eyes or clothing.
Take precautionary measures against static discharge.
Store in a cool well-ventilated area.
Avoid release to the environment.

HMIS:

Health 1*
Flammability 2
Reactivity 0

SECTION III – Composition/Information On Ingredients

Component	CAS#	Weight %
Oil Modified Polyurethane	Proprietary	75 - 85
Stoddard Solvent	8052-41-3	10 - 20
Solvent Naphtha (Petroleum)	64742-88-7	15 - 25

SECTION IV – FIRST AID MEASURES

Skin Contact: Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Get medical attention if irritation develops or persists. Wash contaminated clothing before reuse.

Eye Contact: Move individual away from exposure. Immediately flush eyes with large quantities of clean water for at least 15 minutes. Get immediate medical attention.

Ingestion: DO NOT INDUCE VOMITING. ASPIRATION HAZARD. This material may enter the lungs during vomiting. Never give anything by mouth to an unconscious person. GET IMMEDIATE MEDICAL ATTENTION.

Inhalation: If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet. GET IMMEDIATE MEDICAL ATTENTION.

SECTION V – FIRE FIGHTING MEASURES

Suitable Extinguishing Media: Carbon Dioxide (CO₂), foam, dry chemical, water spray. Do not use a solid water stream as it may scatter and spread fire.

Hazardous Combustion Products: Carbon monoxide, Carbon dioxide (CO₂).

Fire/Explosion Hazard: Combustible material. Vapor or spray forms explosive mixtures with air. Flash back is possible over a considerable distance. Air oxidation of the product may cause it to spontaneously combust. To avoid spontaneous combustion, prevent residue build-up and soak soiled rags, spray-booth filters and items exposed to over-spray in a closed water filled metal container. Closed containers may rupture when exposed to extreme heat. Empty containers may contain product residue (liquid and/or vapor). Do not pressurize, cut, weld, braze, solder, drill, grind, or expose these containers to heat, flame, sparks, static electricity, or other sources of ignition as the container may explode and may cause injury or death.

Protective Equipment & Precautions for Firefighters: Wear self-contained breathing apparatus (SCBA) and full fire-fighting protective clothing. Thoroughly decontaminate all protective equipment after use. Evacuate all persons from the fire area to a safe location. Move non-burning material, as feasible, to a safe location as soon as possible. Fire fighters should be protected from potential explosion hazard while extinguishing the blaze. DO NOT extinguish a fire resulting from the flow of this combustible liquid until the flow of liquid is effectively shut off. This precaution will help prevent the accumulation of an explosive vapor-air mixture after the initial fire is extinguished. Use water spray to cool fire-exposed containers.

SECTION VI – ACCIDENTAL RELEASE MEASURES

Personal Precautions: Depending on the extent of release, consider the need for fire fighters/emergency responders with adequate personal protective equipment for cleaning up. Do not eat, drink or smoke while cleaning up. Use a self-contained respirator, a mask with filter or a filtering mask. Wear protective clothing, safety glasses and impervious gloves (e.g. neoprene gloves). Ensure adequate ventilation. Avoid all sources of ignition: hot surfaces and open flames (see also section 7).

Environmental Precautions: Prevent spills from entering storm sewers or drains and contact with soil.

Methods For Cleaning Up: Eliminate all ignition sources. Runoff may create fire or explosion hazard in sewer system. Absorb on fire retardant, liquid-absorbing material (treated sawdust, diatomaceous earth, sand). Shovel up and dispose of at an appropriate waste disposal facility in accordance with current applicable laws and regulations, and product characteristics at time of disposal (see also section 13).

SECTION VII – HANDLING AND STORAGE

Precautions for Safe Handling: Avoid contact with eyes. Avoid prolonged repeated skin contact and breathing mists/vapors. Use in well ventilated area away from all ignition sources. Switch of all electrical devices such as parabolic heaters, hotplates, storage heaters etc. in good time for them to have cooled down before commencing work. Do not smoke; do not weld. Do not empty waste into sanitary drains. Take measures to prevent the buildup of electrostatic charge.

Conditions for Safe Storage: Keep away from heat, sparks and open flame. No smoking. Keep containers tightly closed in a dry, cool and well ventilated place.

KEEP OUT OF REACH OF CHILDREN

SECTION VIII – EXPOSURE CONTROLS AND PERSONAL PROTECTION

Stoddard Solvent 8052-41-3

ACGIH	time weighted average	100 ppm
NIOSH	recommended exposure limit	350 mg/m ³
NIOSH	ceiling limit value	1,800 mg/m ³
OSHA Z1	permissible exposure limit	500 ppm
OSHA Z1	permissible exposure limit	2,900 mg/m ³
OSHA Z1A	time weighted average	100 ppm
OSHA Z1A	time weighted average	525 mg/m ³
US CA OEL	time weighted average	100 ppm
US CA OEL	time weighted average	525 mg/m ³

Solvent Naphtha (Petroleum) 64742-88-7

OSHA Z1	time weighted average	500 ppm
OSHA Z1	permissible exposure limit	2,000 mg/m ³
OSHA PO	time weighted average	400 ppm
OSHA PO	permissible exposure limit	1,600 mg/m ³

General Advice - The recommendations provide general guidance for handling this product. Personal protective equipment should be selected for individual applications and should consider factors which affect exposure potential, such as handling practices, chemical concentrations and ventilation. It is ultimately the responsibility of the employer to follow regulatory guidelines established by local authorities.

Exposure Controls - Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure levels below TLV(s).

Eye Protection - Chemical splash goggles in compliance with OSHA regulations are advised.

Skin And Body Protection - Chemical resistant gloves in compliance with OSHA regulations are advised. To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

SECTION IX – PHYSICAL PROPERTIES

Appearance	Clear amber
Odor	Solvent
Odor Threshold	Not available
Physical State	Liquid
pH	Not Applicable
Flash Point (TCC)	41°C 105°F
Auto Ignition Temperature	260°C 500°F
Boiling Point/Range	161-198°C 322-388°F
Freezing Point	< -75°C (-103°F)
Flammability Limits In Air	Lower 0.7% Upper 5.5%
Specific Gravity	0.85 – 0.90 @ 25°C
Solubility	Insoluble
Evaporation Rate	0.16 (BuAc=1)
Vapor Pressure	1.98 mmHg @ 20°C (0.27kPa)
Vapor Density	4.6 (Air=1)
VOC Content	450 g/L (calculated) product as supplied
Viscosity	90-100 cps. @ 25°C

SECTION X – STABILITY AND REACTIVITY

Chemical Stability: This product is stable under normal conditions.

Conditions to Avoid: Keep away from heat, open flames and other ignition sources.

Incompatible Materials: Avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Carbon monoxide, Carbon dioxide (CO₂), various hydrocarbons.

Hazardous Reactions - Product will not undergo hazardous polymerization.

SECTION XI – TOXICOLOGICAL INFORMATION

Acute Toxicity:

Stoddard Solvent

Ingestion LD 50 Rat: > 5,000 mg/kg

Dermal LD50 Rabbit: > 3,160 mg/kg

Inhalation LC50 Rat: No Data Available

Solvent Naphtha (Petroleum)

Ingestion LD 50 Rat: > 5,000 mg/kg

Dermal LD50 Rabbit: > 2,000 mg/kg

Inhalation LC50 Rat: > 5,610 ppm

Chronic Toxicity:

No components of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen or potential carcinogen by NTP, OSHA and or IARC.

SECTION XII – Ecological Information

Persistence and Degradability: The total of the organic components contained in the product is not classified as “readily biodegradable” (OECD-301 A-F). However, this product is expected to be inherently biodegradable.

Bio-accumulative Potential: There is no evidence to suggest bioaccumulation will occur.

Mobility: Accidental spillage may lead to penetration in the soil and groundwater. However, there is no evidence that this would cause adverse ecological effects.

Aquatic Toxicity: Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

SECTION XIII – DISPOSAL CONSIDERATIONS

Waste Disposal Methods: Dispose of in accordance with all applicable local, state and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your local State Water Board or Regional Office of the EPA.

SECTION XIV – TRANSPORTATION INFORMATION

The basic description below is specific to the container size. This information is provided for at a glance DOT information. Please refer to the container and/or shipping papers for the appropriate shipping description before tendering this material for shipment. Dangerous goods descriptions may not reflect end-use or region-specific exceptions that can be applied. For additional information, please contact the distributor listed in section 1 of this SDS.

DOT

Exempt from DOT labeling or UN packaging per 49 CFR 173.150(f)

DOT Exemption: This material has a flash point at or above 38°C and may-be reclassified as a combustible liquid. A combustible liquid in a non-bulk package (119 gallons) is exempt from the hazardous material regulations unless shipped by vessel or aircraft. Reference 49 CFR 173.150(f).

IMDG/ICAO

UN1993, Flammable liquid, n.o.s. contains (Petroleum Distillates) 3, PGIII

SECTION XV – REGULATORY INFORMATION

TSCA Inventory Status: All components of this material are listed on the US Toxic Substances Control Act (TSCA) inventory.

US Federal Regulations:

Section 313 of Title III of the Superfund Amendments and Reauthorization ACT of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	No
Chronic Health Hazard	Yes
Fire Hazard	Yes
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 12 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any reportable HAPs.

Chemical Weapons Convention (CWC):

This product does not contain any listed substances.

California Prop. 65: This product contains no listed substances known to the state of California to cause cancer, birth defects or other reproductive harm at levels which require reporting under the state statute.

SECTION XVI – OTHER INFORMATION

Prepared By: David Sadlo
Preparation Date: May 15, 2015

The information herein is based on data considered to be accurate. However, no warranty is expressed or implied regarding the accuracy of these data or results. Also this shall not establish a legally valid contractual relationship.

Vendor assumes no responsibility for injury to vendee or third person proximately caused if reasonable safety procedures are not adhered to as stipulated in the data sheet. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in use of the material.

Our products are intended for sale to industrial and commercial customers. We encourage customers to inspect and test our products before use and to satisfy themselves as to suitability for their specific applications.

Warranty - The manufacturer warrants that products sold comply with specifications as represented and will perform satisfactorily if used according to the directions, or the manufacturer will refund or replace any unused portion thereof, for a period of one year from the date of manufacture. The manufacturer does not make any other warranty, or assume responsibility of any kind, expressed or implied regarding the effect or result of the products use; and assumes no responsibility of injury to vendee or third parties proximately caused by the material if reasonable safety procedures are not adhered to.

