



SAFETY DATA SHEET

Supersedes Date: 08 Feb 2017

Revision Date: 28 Apr 2023

Version: 2.0

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product identifier

Product Label Name P.O.G.
Other means of identification
UPC Code(s) Not applicable
Product code 2699-4665, 2690-4767, 2691-4768
Synonyms Esteam P.O.G., Esteam Paint Oil & Grease Remover

Recommended use of the chemical and restrictions on use

Recommended Use Paint oil and grease remover for carpeting and textiles.
Uses advised against Follow label instructions. Not recommended for any use except intended use.

Supplier's details

Supplier Address

Esteam Cleaning Systems
1-3680 Odyssey Drive
Mississauga, ON L5M 0Y9
Canada

Manufacturer Address

AramSCO Inc.
4282 South 590 West
Salt Lake City, UT 84123
USA

Emergency telephone number

Company Phone Number 1-800-767-6933
Company Emergency Phone Number United States: 1-800-535-5053 (INFOTRAC – 24 hours, 7 days a week)
International: 1-352-323-3500 (INFOTRAC – 24 hours, 7 days a week)
Emergency telephone Poison Control 1-800-222-1222 (24 hour)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Flammable liquids	Category 4
Dermal toxicity	Category 5
Aspiration hazard	Category 1
Serious eye damage irritation	Category 2
Skin irritation	Category 2
Skin sensitizer	Category 1
Aquatic toxicity	Acute 2 / Chronic 2
Specific target organ systemic Toxicity-single exposure, narcotic effects (dizziness)	Category 3

GHS Label elements, including precautionary statements

Emergency Overview

Danger

Hazard Statements

- Combustible liquid
- Causes serious eye irritation
- May be fatal if swallowed and enters airways
- Causes skin irritation
- May be harmful in contact with skin
- May cause an allergic skin reaction
- Toxic to aquatic life with long lasting effects
- May cause drowsiness or dizziness



Appearance Amber Liquid

Physical state Liquid

Odor Mild Citrus Solvent

Precautionary Statements - Prevention

- Keep out of reach of children
- Keep away from heat, sparks, open flames, hot surfaces. No smoking.
- Keep cool
- Avoid breathing dust/fume/gas/mist/vapors/spray.
- Use only outdoors or in a well-ventilated area
- Wash hands, face, and all exposed skin areas after handling.
- Wear protective gloves/protective clothing/eye protection/face protection
- Contaminated work clothing should not be allowed out of the workplace.
- Avoid release to the environment

Precautionary Statements - Response

- IF SWALLOWED: Immediately call a POISON CENTER or doctor or physician. Do not induce vomiting.
- IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs, get medical advice/attention if you feel unwell.
- Take off contaminated clothing and wash it before reuse.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a doctor/physician if you feel unwell.
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. If eye irritation persists, get medical advice/attention.
- IN CASE OF FIRE: Use dry chemical, co2 or foam to extinguish. Collect spillage.

Precautionary Statements - Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

Other information

- Repeated or prolonged exposure can cause skin dryness or cracking.
 - General Hazards
 - Keep out of reach of children
 - Please see Section 11. Toxicological Information for further information

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
Distillates, petroleum hydrotreated, light	64742-47-8	0-75	*
D-limonene	5989-27-5	0-4	*
Diethylene glycol monobutyl ether	112-34-5	0-15	*
Surfactant mixture	Proprietary	Proprietary	*

*The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures for different exposure routes

General advice	If symptoms persist, call a physician. Do not breathe dust/fume/gas/mist/vapors/spray. Do not get in eyes, on skin, or on clothing.
Eye contact	Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
Skin contact	Remove contaminated clothing. Wash with soap and plenty of water for 15 minutes. Wash contaminated clothing before reuse. If irritation occurs get medical advice.
Toxic - Inhalation	Move individual away from exposure and into fresh air. If breathing is irregular or stopped, administer artificial respiration. In case of shortness of breath, give oxygen. Call a physician.
Ingestion	If swallowed, call a POISON CONTROL center immediately. Wash out mouth with water. DO NOT induce vomiting; this product is an aspiration hazard. If spontaneous vomiting occurs, keep head below hips to prevent aspiration of liquid into the lung. Never give anything by mouth to an unconscious person.
Protection of First-aiders	Use personal protective equipment.

Most important symptoms/effects, acute and delayed

Main Symptoms	<p>INGESTION: Symptoms may include diarrhea, gastric pain, and vomiting</p> <p>SKIN CONTACT: Symptoms may include redness, dryness, and cracking of skin.</p> <p>INHALATION: Symptoms may include irritation of respiratory tract and/or CNS symptoms such as dizziness, confusion, drowsiness, or fatigue.</p> <p>EYE CONTACT: Symptoms may include stinging, tearing, redness and blurred vision.</p>
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Indication of immediate medical attention and special treatment needed, if necessary

Notes to physician	Treat symptomatically.
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5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use fire extinguishers rated for class B fires. CO2, Foam.

Unsuitable Extinguishing Media Do not use water jet. If water is used utilize fog nozzle or apparatus

Specific hazards arising from the chemical

Combustible liquid. In a fire or if heated, a pressure increase will occur, and the container may burst. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. Runoff to sewer may create fire or explosion hazard.

Hazardous Combustion Products Carbon monoxide and CO₂

Explosion Data

Sensitivity to Mechanical Impact None.

Sensitivity to Static Discharge None.

Protective Equipment and Precautions for Firefighters

Keep product containers and surrounding areas cool with water spray. No action shall be taken involving any personal risk or without suitable training.

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Personal precautions	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No Flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
Advice for emergency responders	If specialized clothing is required to deal with the spillage, take note of information in section 8 for further information. See also information in non-emergency personnel above.
<u>Environmental precautions</u>	
Environmental precautions	See Section 12 for additional Ecological Information. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains.
<u>Methods and materials for containment and cleaning up</u>	
Small spill	Stop leak if without risk. Move containers from the spill area. Use spark proof tools and equipment. Absorb with an inert dry noncombustible material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container. Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to international, federal, state, and local regulations.
Large spill	Stop leak if without risk. Move containers from spill area. Use spark proof tools and equipment. Prevent entry into sewers, drains, water courses and confined areas. Wash spillages into an effluent treatment plant or absorb with an inert dry noncombustible material such as diatomaceous earth or vermiculite and place in an appropriate waste disposal container(s). Mop any remaining residues with soap and water and dispose of wastes via a licensed waste disposal contractor according to international, federal, state, and local regulations.

7. HANDLING AND STORAGE

<u>Precautions for safe handling</u>	
Advice on safe handling	Utilize appropriate personal protective equipment when handling product. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mists. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container and tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. No smoking. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing/eye protection and face protection during use. Do not flame cut, braze or weld emptied containers as they contain product residues and all precautions within this SDS still apply and should be followed.
Advice on general occupational hygiene	Eating, drinking, and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional hygiene information.
<u>Conditions for safe storage, including any incompatibilities</u>	
Technical measures/Storage conditions	Keep container tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Eliminate all ignition sources. Keep container tightly closed when not in use. Do not store in unlabeled containers.
Packaging material	Keep product in packaging product is initially sold in.
Incompatible products	Keep away from strong oxidizing agents.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethylene glycol monobutyl ether 112-34-5	TLV NIC 67.5 mg/m ³ NIC 10 ppm	-	-
Distillates, petroleum hydrotreated, light 64742-47-8	TWA: skin absorption 200 mg/m ³ (as total hydrocarbon vapor) 8 hours	-	-
D-limonene 5989-27-5	TWA: 10 ppm inhalable fraction and vapor	-	-

NIOSH IDLH: *Immediately Dangerous to Life or Health*

Other Exposure Guidelines

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures

Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants and air concentrations below occupational exposure standards. Use spark proof ventilation equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection

Tightly fitting safety goggles. Face shields.

Skin and body protection

Wear chemical resistant, impervious gloves at all times when handling chemical products. Check during use that gloves are still retaining their impervious properties, as the time for breakthrough can change from different manufacturers and chemical mixtures cannot always be accurately measured. Appropriate footwear and suitable protective clothing should be worn for the degree and risk of exposure.

Respiratory protection

If workplace exposure limits of product or any component is exceeded, utilize proper respiratory protection program guidelines (see OSHA 1910.134 and American National Standard ANSI Z88.2) Use a properly fitted NIOSH/MSHA air-purifying or air-fed respirator in compliance with the above mentioned standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hygiene measures

Provide regular cleaning of equipment, work area and clothing. Do not eat, drink, or smoke when using this product. Remove and wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties

Physical state

Liquid

Odor

Mild Citrus Solvent

Appearance

Amber Liquid

Odor threshold

No information available

Color

Amber

Property

Values

Remarks • Method

pH

No information available

Melting point

-49°C / -56°F

Boiling point/boiling range

173°C - 245°C / 344°F - 473°F

Flash Point

61°C - 6°C / 142°F - 150°F

Evaporation rate

< 1

butyl acetate = 1

Flammability (solid, gas)

No information available

Flammability Limits in Air

Upper Flammability Limit

0.6% Aliphatic Solvent

Lower Flammability Limit

7.0% Aliphatic Solvent

Vapor pressure

meets CARB guidelines

Vapor density

4.5-5.0

Air = 1.0

Specific Gravity

0.81

Water solubility	Emulsifies
Solubility in other solvents	No information available
Partition coefficient: n-octanol/water	No information available
Autoignition temperature	> 220°C / > 428°F
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing Properties	No information available

Other information

Softening point	No information available
Molecular weight	No information available
VOC Content (%)	No information available
Density VALUE	No information available
Bulk Density VALUE	No information available

10. STABILITY AND REACTIVITY

Reactivity**Chemical stability**

Stable under recommended storage conditions

Possibility of hazardous reactions

None under normal processing

Hazardous Polymerization None under normal processing.

Conditions to Avoid

Avoid all possible sources of ignition. Do not pressurize, cut weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas.
Incompatible.

Incompatible Materials

Oxidizing materials.

Hazardous Decomposition Products

Carbon monoxide and carbon dioxide.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure**Product Information**

Toxic - Inhalation	Avoid breathing vapors or mists. May cause irritation of respiratory tract. Symptoms could be light headedness, dizziness, fatigue
Eye contact	Avoid contact with eyes. Causes serious eye irritation
Skin contact	Avoid contact with skin. May cause allergic skin reaction. Can cause skin irritation.
Ingestion	Do not taste or swallow. May be harmful if swallowed. May be fatal if swallowed and enters airways.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Diethylene glycol monobutyl ether 112-34-5	= 5660 mg/kg (rat)	= 2700 mg/kg (rabbit)	-
Distillates, petroleum hydrotreated, light 64742-47-8	> 5000 mg/kg (rat)	>2000 mg/kg (rabbit)	> 5.2 mg/L (rat) 4 h

D-limonene 5989-27-5	= 4400 mg/kg (rat)	> 5 g/kg (rabbit)	-
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Information on toxicological effects

Symptoms See Section 4.

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

Skin corrosion/irritation Category 2, prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis
Eye damage/irritation Category 2, causes serious eye irritation
Sensitization Category 1, may cause an allergic skin reaction, d-limonene 5989-27-5
Germ cell mutagenicity No information available.
Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen. No known significant effects or critical hazards.

Chemical Name	ACGIH	IARC	NTP
D-limonene 5989-27-5	-	Group 3	-

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

IARC: (International Agency for Research on Cancer)

Group 3 - Not Classifiable as to Carcinogenicity in Humans

Acute toxicity Category 4, oral
Reproductive toxicity No information available.
Developmental toxicity No information available.
STOT - single exposure Category 3, dizziness, Distillate petroleum hydrotreated, light 64742-47-8; 2-butoxyethanol, 111-76-2
STOT - repeated exposure No information available.
Chronic toxicity No information available.
Target Organ Effects Eyes, Respiratory system, Skin, Central nervous system.
Aspiration hazard Category 1, Distillate petroleum hydrotreated, light 64742-47-8; 2-butoxyethanol, 111-76-2

Numerical measures of toxicity - Product Information

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

ATEmix (oral) No information available
ATEmix (dermal) No information available

12. ECOLOGICAL INFORMATION

Ecotoxicity

0% of the mixture consists of components(s) of unknown hazards to the aquatic environment

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Diethylene glycol monobutyl ether 112-34-5	100: 96 h Desmodesmus subspicatus mg/L EC50	1300: 96 h Lepomis macrochirus mg/L LC50 static	100: 48 h Daphnia magna mg/L EC50 2850: 24 h Daphnia magna mg/L EC50
Distillates, petroleum hydrotreated, light 64742-47-8	-	LC50 96 h Pimephales promelas 45 mg/L [flow-through]; LC50 96 h Lepomis macrochirus 2.2 mg/L [static]; LC50 96 h Oncorhynchus mykiss 2.4 mg/L [static]	0.48: 21 d Daphnia pulex mg/L NOEL
D-limonene 5989-27-5	-	0.619 - 0.796: 96 h Pimephales promelas mg/L LC50 flow-through 35: 96 h Oncorhynchus mykiss mg/L LC50	-

Persistence and degradability

Distillate petroleum hydrotreated, light: Biodegradability-inherent
 Diethylene glycol monobutyl ether: readily biodegradable

Bioaccumulation

Not expected to bioaccumulate

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment

Waste Disposal Methods Disposal should be in accordance with applicable local, regional, national, and international laws and regulations.

Contaminated packaging Do not re-use empty containers.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste Status
D-limonene 5989-27-5	Toxic

14. TRANSPORT INFORMATION

DOT This product is NOT REGULATED if packaged under 119 gallons per container by DOT when shipping in North America.

UN/ID No UN1993
Proper shipping name Flammable Liquids, N.O.S. (Contains Petroleum Distillates)
Hazard class 3
Packing Group III
Reportable Quantity (RQ)

IMDG

UN/ID No UN1993
Proper shipping name Flammable Liquids, N.O.S. (Contains Petroleum Distillates)
Hazard class 3
Packing Group III

IATA

REGULATED

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL/NDSL Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

US Federal Regulations

SARA 313

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 Hazard Categories

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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40

CFR 122.42).

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

This product contains one or more substances regulated by state right-to-know regulations

Chemical Name	New Jersey	New York	Massachusetts	Pennsylvania	California
Distillates, petroleum hydrotreated, light 64742-47-8	X	X	X	X	X

U.S. EPA Label information

EPA Pesticide Registration Number Not applicable

16. OTHER INFORMATION

<u>NFPA</u>	Health hazard 1	Flammability 2	Instability 0	Physical and chemical hazards -
<u>HMIS</u>	Health hazard 1	Flammability 2	Physical Hazard 0	Personal protection X

Prepared By Aramsco
 Environmental Health & Safety
Revision Date 28 Apr 2023

Revision Note
 28 Apr 2023 No information available

References Raw ingredient SDSs

Disclaimer

The (M)SDS is intended to provide a brief summary of our knowledge and guidance regarding the use of this material. The information contained here has been compiled from sources considered by Bridgewater LLC to be dependable and is accurate to the best of the Company’s knowledge. It is not meant to be an all-inclusive document on worldwide hazard communication regulations.

This information is offered in good faith. Each user of this material needs to evaluate the conditions of use and design the appropriate protective mechanisms to prevent employee exposures, property damage or release to the environment. Bridgewater LLC assumes no responsibility for injury to the recipient of third persons, or for any damage to any property resulting from misuse of the product.

End of Material Safety Data Sheet