



SEPARATION SYSTEMS, INC.

*Experts in Gas Chromatography*

100 Nightingale Lane  
Gulf Breeze, Florida 32561

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## SAFETY DATA SHEET

Creation Date 19-Oct-2016

Revision Date 10-June-2018

Revision 1.1

### 1. Identification

**Product Name:** Gravimetric Blend #1

**Product Part Number:** SD-025-05; SD-025-25

**Synonyms** Petroleum Distillates (not regulated); Gravimetric Blend #1 for High Temperature Simulated Distillation (HTSD)

**Recommended Use** Analytical Chemistry

**Uses advised against** No Information available

#### Details of the supplier of the safety data sheet

**Company**

Separation Systems, Inc.  
100 Nightingale Lane  
Gulf Breeze, FL 32561  
Tel: (850) 932-1433

**Emergency Telephone Number**

Call CHEMTREC, day or night:  
Domestic North America 800-424-9300  
International (703) 527-3887 (collect calls accepted)

### 2. Hazard(s) identification

#### Classification

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

Aspiration hazard

Category 1

#### Label Elements

**Signal Word**

Danger

**Hazard Statements**

May be fatal if swallowed and enters airways.



#### Precautionary Statements

**Prevention**

Not applicable.

**Response**

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

Do NOT induce vomiting.

**Storage**

Store locked up.

**Disposal**

Dispose of contents/container to an approved waste disposal plant.

#### Hazards not otherwise classified (HNOC)

None known.

### 3. Composition / information on ingredients

Product Information:		
Substance Name	CAS #	Percent
Gravimetric Blend #1	None	100
Component Information:		
Ingredient Name	CAS #	Percent
Distillates (petroleum), hydrotreated light	64742-47-8	45 – 55
Severely Treated Base Oils	None	45 – 55

### 4. First-aid measures

<b>General Advice</b>	Consult a physician. Show this Safety Data Sheet to the doctor in attendance. Move out of dangerous area.
<b>Eye Contact</b>	Immediately flush eyes with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Gently remove contacts, if present, while flushing. Continue to rinse for at least 10 minutes. Obtain medical attention.
<b>Skin Contact</b>	Wash off immediately with soap and plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Obtain medical attention if symptoms occur.
<b>Inhalation</b>	If breathed in, move person into fresh air. If breathing is difficult, give oxygen. Do not use mouth-to-mouth resuscitation if victim ingested or inhaled the substance; induce artificial respiration with a respiratory medical device. Obtain medical attention.
<b>Ingestion</b>	Do NOT induce vomiting because of danger of aspirating liquid into lungs, causing serious damage and chemical pneumonitis. If spontaneous vomiting occurs, keep head below hips, or if patient is lying down, turn body and head to side to prevent aspiration and monitor for breathing difficulty. Never give anything by mouth to an unconscious person. Rinse mouth with water. Obtain medical attention immediately.
<b>Most important symptoms/effects</b>	Defatting to the skin. May cause skin dryness and irritation. May be fatal if swallowed and enters airways.
<b>Indication of immediate medical attention and special treatment needed</b>	No data available.

### 5. Fire-fighting measures

<b>Suitable Extinguishing Media</b>	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Firefighting should be attempted only by those who are adequately trained and equipped with proper protective equipment.
<b>Unsuitable Extinguishing Media</b>	Do not use straight water streams to avoid spreading fire.
<b>Specific Hazards Arising from the Chemical</b>	Carbon oxides.
<b>Protective Equipment and Precautions for Firefighters</b>	Wear self-contained breathing apparatus for firefighting if necessary.
<b>Further Information</b>	Use water spray to cool unopened containers.

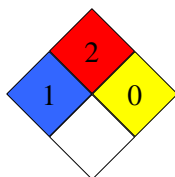
#### NFPA

Health  
1

Flammability  
2

Instability  
0

Physical hazards  
N/A



## 6. Accidental release measures

<b>Personal Precautions</b>	Use personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid breathing vapor or mist. Ensure adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Evacuate personnel to safe areas.
<b>Environmental Precautions</b>	Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.
<b>Methods for Containment and Clean Up</b>	Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Dispose of via a licensed waste disposal contractor.

## 7. Handling and storage

<b>Handling</b>	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid inhalation of vapor or mist. Use proper bonding and/or ground procedures. Take measures to prevent the buildup of electrostatic charge.
<b>Storage</b>	Keep container tightly closed in a cool, dry and well-ventilated place. Keep away from heat and sources of ignition.
<b>Incompatible Materials</b>	Strong oxidizing agents

## 8. Exposure controls / personal protection

### Exposure Guidelines

Component	CAS #	ACGIH TLV	OSHA PEL
Distillates (petroleum), hydrotreated light	64742-47-8	TWA: 200 mg/m <sup>3</sup> , 8 hrs	No information available
Severely treated base oils	N/A	5 mg/m <sup>3</sup>	5 mg/m <sup>3</sup>

ACGIH – American Conference of Governmental Industrial Hygienists

OSHA – Occupational Safety and Health Administration

NIOSH IDLH – The National Institute for Occupational Safety and Health Immediately Dangerous to Life or Health

<b>Engineering Measures</b>	Safety shower and eye bath. Use spark-proof tools and explosion-proof electrical/ventilating/lighting/equipment. Ensure adequate ventilation, especially in confined areas.
<b>Personal Protective Equipment</b>	
<b>Eye/face Protection</b>	Face shield and safety glasses are recommended. Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).
<b>Skin and body protection</b>	Wear appropriate protective gloves and clothing to prevent skin exposure.
<b>Respiratory Protection</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.
<b>Hygiene Measures</b>	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before eating, drinking or smoking.

## 9. Physical and chemical properties

Physical State	Clear Liquid
Appearance	Light yellow
Odor	Mild
Odor Threshold	No available data
pH	No available data
Melting Point/Range	No available data
Boiling Point/Range	> 180 °C
Flash Point	> 100 °C
Evaporation Rate	No available data
Flammability (solid, gas)	No available data
Flammability Limit in Air (%)	
Upper	No available data
Lower	
Vapor Pressure	No available data
Vapor Density	No available data
Relative Density	No available data
Solubility	No available data
Partition coefficient; n-octanol/water	No available data
Auto-ignition Temperature	No available data
Decomposition Temperature	No available data
Viscosity	No available data
VOC Content (%)	No available data
Density	No available data

## 10. Stability and reactivity

<b>Reactivity</b>	None known, based on information available.
<b>Stability</b>	Stable under normal conditions.
<b>Conditions to Avoid</b>	Excessive heat, sources of ignition, open flame.
<b>Incompatible Materials</b>	Strong oxidizing agents
<b>Hazardous Decomposition Products</b>	Hazardous decomposition products formed under fire conditions – carbon oxides.
<b>Hazardous Polymerization</b>	Hazardous polymerization does not occur.
<b>Hazardous Reactions</b>	None under normal processing.

## 11. Toxicological information

### Acute Toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Distillates (petroleum), hydrotreated light	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>5 mg/L (4 h, Rat)
Severely treated base oils	>5000 mg/kg (Rat)	>2000 mg/kg (Rabbit)	>5000 mg/m <sup>3</sup> (Rat)

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

<b>Irritation</b>	Not available.
<b>Sensitization</b>	Not available.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any component as a carcinogen.

Component	CAS No.	IARC	NTP	ACGIH	OSHA
Distillates (petroleum), hydrotreated light	64742-47-8	Not listed	Not listed	Not listed	Not listed
Severely treated base oils	None	Not listed	Not listed	Not listed	Not listed

IARC (International Agency for Research on Cancer)

## Gravimetric Blend #1

Group 1 – Carcinogenic to Humans  
Group 2A – Probably Carcinogenic to Humans  
Group 2B – Possibly Carcinogenic to Humans  
ACGIH (American Conference of Governmental Industrial Hygienists)  
A1 – Known Human Carcinogen  
A2 – Suspected Human Carcinogen  
A3 – Animal Carcinogen  
OSHA (Occupational Safety & Health Administration)  
X – Present  
Mexico – Occupational Exposure Limits – Carcinogens  
A1 – Confirmed Human Carcinogen  
A2 – Suspected Human Carcinogen  
A3 – Confirmed Animal Carcinogen  
A4 – Not Classifiable as a Human Carcinogen  
A5 – Not Suspected as a Human Carcinogen

<b>Mutagenic Effects</b>	No known significant effects or critical hazards.
<b>Reproductive Effects</b>	No known significant effects or critical hazards.
<b>Developmental Effects</b>	No known significant effects or critical hazards.
<b>Teratogenicity</b>	No known significant effects or critical hazards.
<b>STOT – single exposure</b>	Not available.
<b>STOT – repeated exposure</b>	Not available.
<b>Aspiration hazard</b>	May be fatal if swallowed and enters airways.
<b>Symptoms / effects, both acute and delayed</b>	Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.
<b>Endocrine Disruptor Information</b>	Not available.
<b>Additional Information</b>	The toxicological properties have not been fully investigated.

## 12. Ecological information

<b><u>Ecotoxicity</u></b>	Not expected to be harmful to aquatic organisms.
<b><u>Persistence and Degradability</u></b>	Expected to be inherently biodegradable.
<b><u>Bioaccumulation</u></b>	Not available.
<b><u>Mobility in soil</u></b>	Material has low solubility and floats and is expected to migrate from water to the land. Expected to partition to sediment and wastewater solids. Low potential to migrate through the soil.
<b><u>Other adverse effects</u></b>	No known significant effects or critical hazards. However, an environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## 13. Disposal considerations

<b>Description of Waste Residues</b>	Waste residues should be treated as unused product.
<b>Safe Handling of Wastes</b>	Handle in accordance with applicable local, state, and federal regulations. Use personal protection measures as required.
<b>Disposal of Wastes/Methods Of Disposal</b>	Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this material.

**Methods of Contaminated Packaging Disposal**

Dispose of as unused product.

## 14. Transport information

**Transport Information** This material when transported via US commerce would not be regulated by DOT Regulations.

**DOT**

**UN No.** Not regulated

**IATA**

**UN No.** Not regulated

**IMDG**

**UN No.** Not regulated

**TDG (Canada)**

**UN No.** Not regulated

## 15. Regulatory information

**SARA Section 302:** This product does not contain any component(s) included on EPA's Extremely Hazardous Substance (EHS) List.

**SARA 311/312 Hazards:** The following EPA hazard categories apply to this product:

Acute Health Hazard

**SARA Section 313:** This material contains no chemicals subject to the supplier notification requirements of the SARA 313 Toxic Release Program.

**State Right-to-Know**

Component	CAS No.	Massachusetts	Pennsylvania	New Jersey
Distillates (petroleum), hydrotreated light	64742-47-8	Not listed	Not listed	Not listed
Severely treated base oils	None	Not listed	Not listed	Not listed

**California Prop. 65 Components** This product is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

## 16. Other information

**References:** Not Available

**Creation Date** 19-Oct-2016

**Revision Date** 10-June-2018

**Version:** 1.1

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, expressed or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Separation Systems, Inc. be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Separation Systems Inc. has been advised of the possibility of such damages.