

**SECTION 1: Identification****1.1. Identification**

Product form	: Substance
Substance name	: Bio Super-D
CAS No	: 64742-47-8
Product code	: Solvent
Synonyms	: distillates (petroleum), hydrotreated light / kerosene - unspecified
BIG no	: F06678

**1.2. Relevant identified uses of the substance or mixture and uses advised against**

Industrial Use

**1.3. Details of the supplier of the safety data sheet**

Mark Supply, Inc.  
156 Progress Cir.  
Venice, FL 34285  
941-485-8199

**1.4. Emergency telephone number**Emergency number : **CHEMTREC** (800)-424-9300**SECTION 2: Hazard(s) identification****2.1. Classification of the substance or mixture****GHS-US classification**

Flam. Liq. 4	H227 - Combustible liquid
Acute Tox. 4 (Inhalation)	H332 - Harmful if inhaled
Skin Irrit. 2	H315 - Causes skin irritation
Eye Irrit. 2B	H320 - Causes eye irritation
STOT SE 3	H336 - May cause drowsiness or dizziness
Asp. Tox. 1	H304 - May be fatal if swallowed and enters airways

Full text of H-phrases: see section 16

**2.2. Label elements****GHS-US labeling**

Hazard pictograms (GHS-US) :



GHS07

GHS08

Signal word (GHS-US) :

: **DANGER**

Hazard statements (GHS-US) :

: H227 - Combustible liquid  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H320 - Causes eye irritation  
H332 - Harmful if inhaled  
H336 - May cause drowsiness or dizziness

Precautionary statements (GHS-US) :

: P210 - Keep away from hot surfaces, heat, open flames, sparks. - No smoking  
P261 - Avoid breathing mist, vapors  
P264 - Wash skin thoroughly after handling  
P271 - Use only outdoors or in a well-ventilated area  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P301+P310 - If swallowed: Immediately call a POISON CENTER or doctor/physician.  
P302+P352 - IF ON SKIN: Wash with plenty of soap and water  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P312 - Call a POISON CENTER or doctor/physician if you feel unwell

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P331 - Do NOT induce vomiting  
 P332+P313 - If skin irritation occurs: Get medical advice/attention  
 P337+P313 - If eye irritation persists: Get medical advice/attention  
 P362+P364 - Take off contaminated clothing and wash it before reuse  
 P370+P378 - In case of fire: Use water fog, foam, dry chemical or carbon dioxide (CO2) to extinguish  
 P403+P233 - Store in a well-ventilated place. Keep container tightly closed  
 P403+P235 - Store in a well-ventilated place. Keep cool  
 P405 - Store locked up  
 P501 - Dispose of contents/container in accordance with local, regional, national, and/or international regulations.

### 2.3. Other hazards

None known

### 2.4. Unknown acute toxicity (GHS US)

Not applicable

## SECTION 3: Composition/Information on ingredients

### 3.1. Substance

Name	Product identifier	%	GHS-US classification
Distillates, petroleum hydrotreated light (Main constituent)	(CAS No) 64742-47-8	100	Flam. Liq. 4, H227 Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H336 Asp. Tox. 1, H304

Full text of H-phrases: see section 16

### 3.2. Mixture

Not applicable

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

First-aid measures general : Call a physician immediately.  
 First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
 First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.  
 First-aid measures after eye contact : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.  
 First-aid measures after ingestion : Do NOT induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms and effects, both acute and delayed

Symptoms/injuries : May cause drowsiness or dizziness.  
 Symptoms/injuries after skin contact : Irritation.  
 Symptoms/injuries after eye contact : mild eye irritation.  
 Symptoms/injuries after ingestion : Risk of lung edema.

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
 Unsuitable extinguishing media : No unsuitable extinguishing media known.

### 5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.  
 Reactivity : The product is non-reactive under normal conditions of use, storage and transport.

### 5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****6.1.1. For non-emergency personnel**

Emergency procedures : Ventilate spillage area. NO open flames, NO sparks, and NO smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

**6.1.2. For emergency responders**

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8 Exposure controls/personal protection".

**6.2. Environmental precautions**

Avoid release to the environment.

**6.3. Methods and material for containment and cleaning up**

Methods for cleaning up : Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.

Other information : Dispose of materials or solid residues at an authorized site.

**6.4. Reference to other sections**

For further information refer to section 8 : Exposure-controls/personal protection".

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

**7.2. Conditions for safe storage, including any incompatibilities**

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

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****142 Flash Solvent (64742-47-8)**

ACGIH	ACGIH TWA (ppm)	15 ppm
OSHA	OSHA PEL (TWA) (ppm)	10 ppm

**8.2. Exposure controls**

Appropriate engineering controls : Ensure good ventilation of the work station.

Hand protection : Protective gloves.

Eye protection : Safety glasses.

Skin and body protection : Wear suitable protective clothing.

Respiratory protection : Wear respiratory protection.

Environmental exposure controls : Avoid release to the environment.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state : Liquid

Color : Transparent, colorless

Odor : Hydrocarbon solvent odor

Odor threshold : No data available

pH : No data available

Melting point : -94 °F

Freezing point : No data available

Boiling point : 376 - 412 °F

Flash point : 145 °F

Relative evaporation rate (butyl acetate=1) : <0.1

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Flammability (solid, gas)	: No data available
Explosion limits	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Vapor pressure	: 0.3 mmHg
Relative density	: No data available
Relative vapor density at 20 °C	: No data available
Specific gravity / density	: 0.8
Solubility	: No data available
Log Pow	: No data available
Auto-ignition temperature	: 453 °F
Decomposition temperature	: No data available
Viscosity	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

The product is non-reactive under normal conditions of use, storage and transport.

**10.2. Chemical stability**

Stable under normal use and temperature conditions

**10.3. Possibility of hazardous reactions**

No dangerous reactions known under normal conditions of use.

**10.4. Conditions to avoid**

Avoid contact with hot surfaces. Heat. No flames, No sparks. Eliminate all sources of ignition.

**10.5. Incompatible materials**

Strong acids, and oxidizers.

**10.6. Hazardous decomposition products**

When combusted, oxides of carbon and various hydrocarbons.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity : Inhalation: Harmful if inhaled.

<b>142 Flash Solvent (64742-47-8)</b>	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	2000 - 4000 mg/kg
ATE US (dermal)	2000.000 mg/kg body weight
ATE US (gases)	4500.000 ppmV/4h
ATE US (vapors)	11.000 mg/l/4h
ATE US (dust, mist)	1.500 mg/l/4h

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity (single exposure)	: May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure)	: Not classified

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Aspiration hazard	: May be fatal if swallowed and enters airways.
Symptoms/injuries after skin contact	: Irritation.
Symptoms/injuries after eye contact	: mild eye irritation.
Symptoms/injuries after ingestion	: Risk of lung edema.

**SECTION 12: Ecological information****12.1. Toxicity**

Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Ecology - water	: Mild water pollutant (surface water).

**12.2. Persistence and degradability**

No additional information available

**12.3. Bioaccumulative potential**

Bioaccumulation of this product is unlikely. This product is readily biodegradable.

**12.4. Mobility in soil**

This product is moderately mobile in soil and likely to volatilize from soil surface.

**12.5. Other adverse effects**

No additional information available

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste disposal recommendations	: Remove waste in accordance with local and/or national regulations. Hazardous waste shall not be mixed together with other waste. Different types of hazardous waste shall not be mixed together if this may entail a risk of pollution or create problems for the further management of the waste. Hazardous waste shall be managed responsibly. All entities that store, transport or handle hazardous waste shall take the necessary measures to prevent risks of pollution or damage to people or animals.
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**SECTION 14: Transport information****Department of Transportation (DOT)**

In accordance with DOT

Transport document description	: Petroleum Distillates, n.o.s (Petroleum Naphtha) Combustible liquid, 3, III
UN-No.(DOT)	: UN1268
Proper Shipping Name (DOT)	: Combustible liquid, n.o.s.
Packing group (DOT)	: III - Minor Danger
DOT Packaging Non Bulk (49 CFR 173.xxx)	: 203
DOT Packaging Bulk (49 CFR 173.xxx)	: 241
DOT Special Provisions (49 CFR 172.102)	: IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672). T1 - 1.5 178.274(d)(2) Normal..... 178.275(d)(2) T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3) T1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.
DOT Packaging Exceptions (49 CFR 173.xxx)	: 150
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27)	: 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75)	: 220 L



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DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Other information : No supplementary information available.

### TDG

No additional information available

### Transport by sea

No additional information available

### Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### 142 Flash Solvent (64742-47-8)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

The reportable quantity (RQ) for this material is 1000 pounds. If appropriate, immediately report to the National Response Center (800/424-8802) as required by U.S. Federal Law. Also contact appropriate state and local regulatory agencies.

SARA Section 311/312 (40 CFR 370) Hazard Categories:  
Delayed Hazard.

### 15.2. International regulations

#### CANADA

No additional information available

#### EU-Regulations

No additional information available

#### National regulations

No additional information available

### 15.3. US State regulations

No additional information available

## SECTION 16: Other information

Revision date : 11/12/2015

Full text of H-phrases:

Acute Tox. 4 (Inhalation)	Acute toxicity (inhalation) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Flam. Liq. 4	Flammable liquids Category 4
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H227	Combustible liquid
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness

NFPA Ratings: **HEALTH: 1** **FLAMMABILITY: 2** **REACTIVITY: 0**

SDS US (GHS HazCom 2012)

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