

# SAFETY DATA SHEET



Revision Date 31-Jul-2015  
Version 1.02

## 1. Identification of the substance/mixture and of the company/undertaking

### 1.1 Product identifier

Product name Biosolv Booster  
Product code LG-F1189

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

Recommended Use Additive concentrate  
Restrictions on use Professional Use Only

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

Supplier Legend Brands  
Chemspec  
15180 Josh Wilson Road  
Burlington, WA 98233  
800-932-3030

E-mail Address msds@chemspecworld.com

### 1.4 Emergency telephone number

Emergency telephone number Chemtrec: +1 703-527-3887 ex-USA  
Chemtrec: 1-800-424-9300 USA

## 2. Hazards identification

### 2.1 Classification of the substance or mixture

#### GHS Classification in accordance with 29 CFR 1910.1200

Skin corrosion/irritation	Category 2
Skin sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 3

### 2.2 Label elements

#### Signal Word

Danger

#### Hazard Statements

Causes skin irritation  
May cause an allergic skin reaction  
May be fatal if swallowed and enters airways  
Flammable liquid and vapor



**Precautionary Statements - Prevention**

Wash face, hands and any exposed skin thoroughly after handling  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Avoid breathing dust/fume/gas/mist/vapors/spray  
 Contaminated work clothing should not be allowed out of the workplace  
 Keep away from heat/sparks/open flames/hot surfaces. - No smoking  
 Keep container tightly closed  
 Ground/Bond container and receiving equipment  
 Use explosion-proof electrical/ventilating/lighting/equipment  
 Use only non-sparking tools  
 Take precautionary measures against static discharge

If skin irritation or rash occurs: Get medical advice/attention  
 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower  
 Wash contaminated clothing before reuse  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Do NOT induce vomiting  
 In case of fire: Use CO2, dry chemical, or foam for extinction

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

**2.3. Other Hazards Hazards not otherwise classified (HNOC)**

Not Applicable

**2.4 Other information**

Not Applicable

**Unknown Acute Toxicity**

6.22995% of the mixture consists of ingredient(s) of unknown toxicity

**3. Composition/Information on Ingredients**

**Substance**

**Mixture**

Chemical Name	CAS-No	Weight %
Naphtha, petroleum, hydrotreated heavy	64742-48-9	50 - 60
D-limonene	5989-27-5	NF

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

**4. First aid measures**

**4.1 Description of first-aid measures**

**General advice**

Show this safety data sheet to the doctor in attendance. When symptoms persist or in all cases of doubt seek medical advice.

**Eye contact**

Remove contact lenses. Rinse immediately with plenty of water, also under the eyelids, for

at least 15 minutes. Call a physician if irritation develops or persists.

**Skin contact**

Wash off immediately with soap and plenty of water. Remove all contaminated clothes and shoes. Use a mild soap if available. Call a physician if irritation develops or persists. If skin irritation persists, call a physician.

**Inhalation**

Immediate medical attention is required. Move to fresh air. If not breathing, give artificial respiration.

**Ingestion**

Gently wipe or rinse the inside of the mouth with water. Never give anything by mouth to an unconscious person. Get medical attention immediately. Give small amounts of water to drink.

**4.2 Most important symptoms and effects, both acute and delayed**

**Symptoms** See Section 2.2, Label Elements and/or Section 11, Toxicological effects.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes to physician** Treat symptomatically.

**5. Fire-Fighting Measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Carbon dioxide (CO<sub>2</sub>) Dry powder Alcohol-resistant foam Water spray

**Unsuitable Extinguishing Media** High volume water jet.

**5.2 Special hazards arising from the substance or mixture**

**Special Hazard**

Hazardous decomposition products formed under fire conditions Flash back possible over considerable distance

**Hazardous Combustion Products** No information available.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** None.

**5.3 Advice for firefighters**

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

**6. Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Remove all sources of ignition. Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not allow material to contaminate ground water system. See Section 12 for additional Ecological information.

**6.3 Methods and materials for containment and cleaning up**

**Methods for Containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers.

**7. Handling and storage**

**7.1 Precautions for safe handling**

<b>Advice on safe handling</b>	Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Do not breathe vapors or spray mist. Vapors may form explosive mixtures with air. Prevent the creation of flammable or explosive concentrations of vapor in air and avoid vapor concentration higher than the occupational exposure limits. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Keep away from sources of ignition - No smoking.
<b>Hygiene measures</b>	When using, do not eat, drink or smoke. Wash hands before breaks and at the end of workday. Remove and wash contaminated clothing before re-use.

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

<b>Storage Conditions</b>	Use only in area provided with appropriate exhaust ventilation. Keep locked up or in an area accessible only to qualified or authorized persons. Use only explosion-proof equipment. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Electrical equipment should be protected to the appropriate standard. Store between 41 and 77 °F (5 - 25° C) in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Store in original container.
<b>Materials to Avoid</b>	Strong oxidizing agents.

**8. Exposure controls/personal protection**

**8.1 Exposure Guidelines**

**8.2 Appropriate engineering controls**

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas.
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**8.3 Individual protection measures, such as personal protective equipment**

<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin and body protection</b>	Long sleeved clothing. Rubber or plastic apron.
<b>Respiratory protection</b>	Respirator with a vapor filter (EN 141).
<b>Hygiene measures</b>	See section 7 for more information

**9. Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

<b>Physical state</b>	Liquid
<b>Appearance</b>	Clear liquid
<b>Color</b>	Orange
<b>Odor</b>	orange
<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
<b>pH</b>		Not Applicable
<b>Melting/freezing point</b>		No information available
<b>Boiling point/boiling range</b>	176 °C / 349 °F	
<b>Flash Point</b>	52 °C / 126 °F	
<b>Evaporation rate</b>	No data available	
<b>Flammability (solid, gas)</b>		No information available
<b>Flammability Limits in Air</b>		
upper flammability limit		No information available
lower flammability limit		No information available
<b>Vapor pressure</b>		No information available
<b>Vapor density</b>		No information available
<b>Specific Gravity</b>	0.8	
<b>Water solubility</b>	Miscible with water	
<b>Solubility in other solvents</b>		No information available
<b>Partition coefficient</b>		No information available
<b>Autoignition temperature</b>		No information available
<b>Decomposition temperature</b>		No information available
<b>Viscosity, kinematic</b>		No information available
<b>Viscosity, dynamic</b>		No information available
<b>Explosive properties</b>		No information available
<b>Oxidizing Properties</b>		No information available

**9.2 Other information**

**Volatile organic compounds (VOC) content** 304 g/L

**10. Stability and Reactivity**

**10.1 Reactivity**

No data available

**10.2 Chemical stability**

Stable under recommended storage conditions

**10.3 Possibility of hazardous reactions**

None under normal processing.

**10.4 Conditions to Avoid**

Direct sources of heat.

**10.5 Incompatible Materials**

Strong oxidizing agents.

**10.6 Hazardous Decomposition Products**

Carbon dioxide (CO<sub>2</sub>), carbon monoxide (CO), oxides of nitrogen (NO<sub>x</sub>), dense black smoke.

**11. Toxicological information**

**11.1 Acute toxicity**

**Numerical measures of toxicity: Product Information**

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

**Unknown Acute Toxicity** 6.22995% of the mixture consists of ingredient(s) of unknown toxicity

**Oral LD50** 5,057.00 mg/kg  
**Dermal LD50** 4,017.00 mg/kg mg/l

**Numerical measures of toxicity: Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Naphtha, petroleum, hydrotreated heavy 64742-48-9	5000 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	-
D-limonene 5989-27-5	4400 mg/kg ( Rat )	> 5 g/kg ( Rabbit )	-

**11.2 Information on toxicological effects**

**Skin corrosion/irritation**

Product Information

• No information available

Component Information

• No information available

**Eye damage/irritation**

Product Information

• No information available

Component Information

• No information available

**Respiratory or skin sensitization**

Product Information

• No information available

Component Information

• No information available

**Germ cell mutagenicity**

Product Information

• No information available

Component Information

• No information available

**Carcinogenicity**

Product Information

• The table below indicates whether each agency has listed any ingredient as a carcinogen

Component Information

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Chemical Name	ACGIH	IARC	NTP	OSHA
butylated hydroxyanisole 25013-16-5	-	Group 2B	Reasonably Anticipated	

**Reproductive toxicity**

Product Information

• No information available

Component Information

• No information available

**STOT - single exposure**

No information available

**STOT - repeated exposure**

No information available

**Other adverse effects**

Target Organs

- Eyes
- Skin
- Respiratory system

Product Information

• No information available

Component Information

• No information available

**Aspiration hazard**

Product Information

• No information available

Component Information

• No information available

**12. Ecological information**

**12.1 Toxicity**

**Ecotoxicity**

No information available

6.22995 % of the mixture consists of component(s) of unknown hazards to the aquatic environment

**Ecotoxicity effects**

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Naphtha, petroleum, hydrotreated heavy 64742-48-9	-	LC50: 96 h Pimephales promelas 2200 mg/L	-
D-limonene 5989-27-5	-	LC50: 96 h Pimephales promelas 0.619 - 0.796 mg/L flow-through LC50: 96 h Oncorhynchus mykiss 35 mg/L	-

**12.2 Persistence and degradability**

No information available.

**12.3 Bioaccumulative potential**

Discharge into the environment must be avoided

**12.4 Mobility in soil**

No information available.

**12.5 Other adverse effects**

No information available

**13. Disposal Considerations**

**13.1 Waste treatment methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

**14. Transport Information**

**DOT** (If shipped in NON BULK packaging by ground transport)  
 Note: According to 49 CRF §173.150(f)(1), this material was reclassified as a combustible liquid. This provision does not apply to transportation by vessel or aircraft, except where other means of transportation is impractical

**Marine Pollutant** This product contains a chemical which is listed as a marine pollutant according to DOT

**MEX**

**IMDG**

**Proper shipping name** Flammable Liquid, N.O.S. (D'LIMONENE)  
**Hazard class** 3  
**UN Number** 1993  
**Packing Group** III  
**Marine pollutant** This product contains a chemical which is listed as a marine pollutant according to IMDG/IMO

**IATA**

**UN Number** 1993  
**Proper shipping name** Flammable Liquid, N.O.S. (D'LIMONENE)  
**Hazard class** 3  
**Packing Group** III

**15. Regulatory information**

**15.1 International Inventories**

**TSCA** Complies  
**DSL** Complies  
**EINECS/ELINCS** Complies  
**ENCS** -  
**IECSC** Complies  
**KECL** -  
**PICCS** -  
**AICS** -  
**NZIoC** -

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL** - Canadian Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances  
**NZIoC** - New Zealand Inventory of Chemicals

**15.2 U.S. 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



**15.3 Pesticide Information**

Not applicable

**15.4 U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
butylated hydroxyanisole - 25013-16-5	Carcinogen

**16. Other information**

<b>NFPA</b>	Health Hazard 0	Flammability 2	Instability 0	Physical and chemical hazards *
<b>HMIS</b>	Health Hazard 0	Flammability 2	Physical Hazard 0	Personal protection X

**Legend:**

- ACGIH (American Conference of Governmental Industrial Hygienists)
- Ceiling (C)
- DOT (Department of Transportation)
- EPA (Environmental Protection Agency)
- IARC (International Agency for Research on Cancer)
- International Air Transport Association (IATA)
- International Maritime Dangerous Goods (IMDG)
- NIOSH (National Institute for Occupational Safety and Health)
- NTP (National Toxicology Program)
- OSHA (Occupational Safety and Health Administration of the US Department of Labor)
- PEL (Permissible Exposure Limit)
- Reportable Quantity (RQ)
- Skin designation (S\*)
- STEL (Short Term Exposure Limit)
- TLV® (Threshold Limit Value)
- TWA (time-weighted average)

**Revision Date** 31-Jul-2015

**Revision Note**  
No information available

**Disclaimer**

The information provided on this SDS is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

**End of Safety Data Sheet**