

# SAFETY DATA SHEET – MIGHTY VS7 FUSION FSC #SB500

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

### Product identifier

**Product name** MIGHTY VS7 FUSION FSC #SB500  
COMPRISED OF: TOTAL INTAKE SYSTEM CLEANER #SB300  
AND SYNTRAMAX FUEL SYSTEM CLEANER #SB304

### Recommended use of the chemical and restrictions on use

**Product code** SB500

**Product Type** Extremely flammable aerosol  
**Synonyms** None

### Supplier's details

**Recommended Use** Engine Cleaner.  
**Uses advised against** No information available

**Manufacturer:** Phillips 66 Spectrum Corporation  
500 Industrial Park Drive  
Selmer, TN 38375

**Product Information:**  
SDS Requests: (800) 264-6457 or +17316454972  
Technical Information: (800) 264-6457 or +17316454972  
General Information: Val.Smith-Wedley@P66.com

### Emergency telephone number

**Emergency Response** North America: CHEMTREC (800) 424-9300 after 5:00pm CST Or +17035273887

**Health Emergency** USA: (800) 264-6457 or +17316454972

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

### Product identifier

**Product name** MIGHTY VS7 TOTAL INTAKE SYSTEM CLEANER

### Recommended use of the chemical and restrictions on use

**Product code** SB300

**Product Type** Extremely flammable aerosol  
**Synonyms** None

### Supplier's details

**Recommended Use** Engine Cleaner.  
**Uses advised against** No information available

**Manufacturer:** Phillips 66 Spectrum Corporation  
500 Industrial Park Drive  
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# SAFETY DATA SHEET – MIGHTY VS7 FUSION FSC #SB500

## 2. HAZARDS IDENTIFICATION

### Classification

Acute Toxicity - Oral	Category 4
Acute Toxicity - Dermal	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2
Reproductive Toxicity	Category 1B
Specific target organ toxicity (single exposure)	Category 3
Flammable aerosols	Category 1
Gases under pressure	Compressed Gas

### GHS Label elements, including precautionary statements

#### Emergency Overview

#### DANGER

#### Hazard Statements

Harmful if swallowed  
Harmful in contact with skin  
Causes skin irritation  
Causes serious eye irritation  
May damage fertility or the unborn child  
May cause respiratory irritation. May cause drowsiness or dizziness  
Extremely flammable aerosol  
Contains gas under pressure; may explode if heated



**Appearance** Clear

**Physical state** Aerosol

**Odor** Light Vanilla Scent Solvent

#### Precautionary Statements - Prevention

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Wear protective gloves/protective clothing/eye protection/face protection  
Wash face, hands and any exposed skin thoroughly after handling  
Do not eat, drink or smoke when using this product  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area  
Keep away from heat/sparks/open flames/hot surfaces. — No smoking  
Do not spray on an open flame or other ignition source  
Pressurized container: Do not pierce or burn, even after use

#### Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention  
Specific measures (see first aid on this label)  
IF IN EYES: 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

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IF ON SKIN: Wash with plenty of soap and water.  
Call a POISON CENTER or doctor/physician if you feel unwell  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
Call a POISON CENTER or doctor/physician if you feel unwell  
IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell  
Rinse mouth

## Precautionary Statements - Storage

Store locked up  
Store in a well-ventilated place. Keep container tightly closed  
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F

## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None

## Other information

• Harmful to aquatic life with long lasting effects

5E-06% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
DIMETHYLETHER	115-10-6	60-70
ACETONITRILE	75-05-8	1-10
N-METHYL-2-PYRROLIDINONE	872-50-4	1-10
MONOISOPROPYLAMINE	75-31-0	1-10

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

## 4. FIRST AID MEASURES

### First aid measures for different exposure routes

<b>Eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. If symptoms persist, call a physician.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Move to fresh air. If breathing is difficult, give oxygen. Artificial respiration and/or oxygen may be necessary. If breathing has stopped, contact emergency medical services immediately.
<b>Ingestion</b>	Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Drink plenty of water. Call a physician or Poison Control Center immediately.

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## Most important symptoms/effects, acute and delayed

**Main Symptoms** Harmful if swallowed. Harmful in contact with skin. Harmful if inhaled. May cause skin and serious eye irritation. May cause respiratory irritation. May damage fertility or the unborn child.

## Indication of immediate medical attention and special treatment needed, if necessary

**Notes to physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

### Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable Extinguishing Media** Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

### Specific hazards arising from the chemical

No information available.

#### Explosion Data

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** none.

### Protective Equipment and Precautions 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

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Absorb with sand, clay, or other suitable material. Hard surfaces may be mopped with water. Remove all sources of ignition. Avoid contact with the skin and the eyes. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Contents under pressure. Do not puncture or incinerate cans. Wear protective gloves/clothing and eye/face protection.

### Environmental precautions

**Environmental precautions** Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas. Prevent further leakage or spillage if safe to do so. Do not allow material to contaminate ground water system. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

### Methods and materials for containment and cleaning up

**Methods for Containment** Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Clean contaminated surface thoroughly. After cleaning, flush away traces with water. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

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**Advice on safe handling** Avoid contact with skin, eyes and clothing. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges.

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

**Technical measures/Storage conditions** Keep container tightly closed in a dry and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep in properly labeled containers. Keep out of the reach of children. Store locked up.

**Incompatible products** Strong acids, alkalis, or oxidizing agents.

**Aerosol Level** 2

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
ACETONITRILE 75-05-8	TWA: 20 ppm Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 40 ppm TWA: 70 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> CN (vacated) TWA: 40 ppm (vacated) TWA: 70 mg/m <sup>3</sup> (vacated) TWA: 5 mg/m <sup>3</sup> (vacated) STEL: 60 ppm (vacated) STEL: 105 mg/m <sup>3</sup> S*	IDLH: 500 ppm IDLH: 25 mg/m <sup>3</sup> CN TWA: 20 ppm TWA: 34 mg/m <sup>3</sup>
MONOISOPROPYLAMINE 75-31-0	STEL: 10 ppm TWA: 5 ppm	TWA: 5 ppm TWA: 12 mg/m <sup>3</sup> (vacated) TWA: 5 ppm (vacated) TWA: 12 mg/m <sup>3</sup> (vacated) STEL: 10 ppm (vacated) STEL: 24 mg/m <sup>3</sup>	IDLH: 750 ppm

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

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).

**Exposure controls**

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and body protection** Chemical resistant apron. Protective gloves.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures** Handle in accordance with good industrial hygiene and safety practice.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and chemical properties

<b>Physical state</b>	Aerosol	<b>Odor</b>	Light Vanilla Scent
<b>Appearance</b>	Clear		Solvent
<b>Color</b>	amber	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	No information available	
Melting/freezing point	No information available	
Boiling point/boiling range	No information available	
Flash Point	-41.1 °C / -42 °F	Based on propellant
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
upper flammability limit	No information available	
lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	.745	
Water solubility	Practically insoluble	
Partition coefficient: n-octanol/water	No information available	
Autoignition temperature	No information available	
Decomposition temperature	No information available	
Viscosity	No information available	
Explosive properties	No information available	

### Other information

VOC Content(%)	78.97
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## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Extremes of temperature and direct sunlight.

### Incompatible Materials

Strong acids, alkalis, or oxidizing agents.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

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<b>Inhalation</b>	Vapors may irritate throat and respiratory system. May cause drowsiness and dizziness based on components. May cause irritation of respiratory tract. Avoid breathing vapors or mists.
<b>Eye contact</b>	Irritating to eyes. Avoid contact with eyes.
<b>Skin contact</b>	Irritating to skin. Repeated exposure may cause skin dryness or cracking. Prolonged skin contact may defat the skin and produce dermatitis. Harmful in contact with skin.
<b>Ingestion</b>	May be harmful or fatal if swallowed.

## Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
DIMETHYLETHER 115-10-6	-	-	= 308.5 mg/L ( Rat ) 4 h
ACETONITRILE 75-05-8	= 2460 mg/kg ( Rat )	= 2000 mg/kg ( Rabbit )	= 26.8 mg/L ( Rat ) 4 h
N-METHYL-2-PYRROLIDINONE 872-50-4	= 3598 mg/kg ( Rat )	= 8 g/kg ( Rabbit )	= 3.1 mg/L ( Rat ) 4 h
MONOISOPROPYLAMINE 75-31-0	= 111 mg/kg ( Rat )	= 382 mg/kg ( Rat )	= 4000 ppm ( Rat ) 4 h

## Information on toxicological effects

<b>Symptoms</b>	Harmful if swallowed. Harmful if in contact with skin. Causes skin and eye irritation. May damage fertility or the unborn child. May cause respiratory irritation. May cause drowsiness or dizziness.
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## Delayed and immediate effects as well as chronic effects from short and long-term exposure

<b>Skin corrosion/irritation</b>	Irritating to skin.
<b>Eye damage/irritation</b>	Irritating to eyes.
<b>Irritation</b>	Irritating to eyes, respiratory system and skin.
<b>Sensitization</b>	None known.
<b>Germ Cell Mutagenicity</b>	None known.
<b>Carcinogenicity</b>	Contains no ingredient listed as a carcinogen.
<b>Reproductive toxicity</b>	Product is or contains a chemical which is a known or suspected reproductive hazard.
<b>Specific target organ systemic toxicity (single exposure)</b>	May cause respiratory irritation. May cause drowsiness and dizziness.
<b>Specific target organ systemic toxicity (repeated exposure)</b>	None under normal use conditions.
<b>Chronic toxicity</b>	May cause adverse liver effects.
<b>Target Organ Effects</b>	Central nervous system, Central Vascular System (CVS), Eyes, Kidney, Liver, Respiratory system, Skin.
<b>Aspiration hazard</b>	Not applicable.

## Numerical measures of toxicity - Product Information

<b>Unknown Acute Toxicity</b>	5E-06% of the mixture consists of ingredient(s) of unknown toxicity
<b>The following values are calculated based on chapter 3.1 of the GHS document .</b>	
<b>ATEmix (oral)</b>	1805 mg/kg
<b>ATEmix (dermal)</b>	2183 mg/kg
<b>ATEmix (inhalation-dust/mist)</b>	14.4 mg/l
<b>ATEmix (inhalation-vapor)</b>	93101 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity



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Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
ACETONITRILE 75-05-8	-	1600 - 1690 mg/L LC50 Pimephales promelas 96h flow-through 1000 mg/L LC50 Pimephales promelas 96h static 1650 mg/L LC50 Poecilia reticulata 96h static 1850 mg/L LC50 Lepomis macrochirus 96h static	-	-
N-METHYL-2-PYRROLIDINONE 872-50-4	500 mg/L EC50 Desmodesmus subspicatus 72h	1072 mg/L LC50 Pimephales promelas 96h static 1400 mg/L LC50 Poecilia reticulata 96h static 832 mg/L LC50 Lepomis macrochirus 96h static	-	4897 mg/L EC50 Daphnia magna 48h
MONOISOPROPYLAMINE 75-31-0	4.13 mg/L EC50 Desmodesmus subspicatus 72h 1.2 mg/L EC50 Desmodesmus subspicatus 96h 62.5 mg/L EC50 Pseudokirchneriella subcapitata 96h	310 mg/L LC50 Pimephales promelas 96h	-	20.8 mg/L EC50 Daphnia magna 48h

## Persistence and degradability

No information available.

## Bioaccumulation

No information available.

Chemical Name	log Pow
DIMETHYLEETHER 115-10-6	-0.18
ACETONITRILE 75-05-8	-0.34
N-METHYL-2-PYRROLIDINONE 872-50-4	-0.46
MONOISOPROPYLAMINE 75-31-0	0.26

## Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

#### Waste Disposal Methods

This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

#### Contaminated packaging

Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

#### DOT Ground

CONSUMER COMMODITY ORM-D  
or  
LIMITED QUANTITY

# SAFETY DATA SHEET – MIGHTY VS7 FUSION FSC #SB500

IATA UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

IMDG UN1950, AEROSOLS, FLAMMABLE, 2.1, LTD. QTY.

## 15. REGULATORY INFORMATION

### International Inventories

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
DIMETHYLETHER	X	X	X	X	X	X	X	X
ACETONITRILE	X	X	X	X	X	X	X	X
N-METHYL-2- PYRROLIDINONE	X	X	X	X	X	X	X	X
MONOISOPROPYLA MINE	X	X	X	X	X	X	X	X

### Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - 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

### U.S. Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %
ACETONITRILE - 75-05-8	75-05-8	1-10	1.0
N-METHYL-2-PYRROLIDINONE - 872-50-4	872-50-4	1-10	1.0

#### SARA 311/312 Hazard Categories

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

#### Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
ACETONITRILE 75-05-8		X	X	

#### CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

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Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
ACETONITRILE 75-05-8	5000 lb		RQ 5000 lb final RQ RQ 2270 kg final RQ

## U.S. State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
N-METHYL-2-PYRROLIDINONE - 872-50-4	Developmental

## U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
DIMETHYLETHER 115-10-6	X	X	X
ACETONITRILE 75-05-8	X	X	X
N-METHYL-2-PYRROLIDINONE 872-50-4	X	X	X
MONOISOPROPYLAMINE 75-31-0	X	X	X

**EPA Pesticide Registration Number** Not applicable

## Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

## 16. OTHER INFORMATION

<b><u>NFPA</u></b>	Health Hazard 2	Flammability 4	Instability 0	Physical and chemical hazards -
<b><u>HMIS</u></b>	Health Hazard 2	Flammability 4	Physical Hazard 1	Personal protection B

Issuing date 06/18/2015  
Revision Date 06/18/2015  
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**

# SAFETY DATA SHEET – MIGHTY VS7 FUSION FSC #SB500

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

### Product identifier

Product name

MIGHTY VS7 SYNTRAMAX FUEL SYSTEM CLEANER

### Recommended use of the chemical and restrictions on use

Product code

SB304

Product Type

Combustible liquid

Synonyms

None

### Supplier's details

**Recommended Use**

FUEL RAIL CLEANER.

**Uses advised against**

No information available

### **Manufacturer:**

Phillips 66 Spectrum Corporation  
500 Industrial Park Drive  
Selmer, TN 38375

### **Product Information:**

SDS Requests: (800) 264-6457 or +17316454972

Technical Information: (800) 264-6457 or +17316454972

General Information: Val.Smith-Wedley@P66.com

### Emergency telephone number

**Emergency Response**

North America: CHEMTREC (800) 424-9300 after 5:00pm CST Or +17035273887

**Health Emergency**

USA: (800) 264-6457 or +1731645497



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Call a POISON CENTER or doctor/physician if you feel unwell  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
Do NOT induce vomiting  
In case of fire: Use CO<sub>2</sub>, dry chemical, or foam for extinction

## Precautionary Statements - Storage

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

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## Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

## Hazards not otherwise classified (HNOC)

None

## Other information

• Toxic to aquatic life with long lasting effects

3.46611% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %*
KEROSENE	8008-20-6	70-80
HYDROCARBON SOLVENT	64741-86-2	1-10
SOLVENT NAPHTHA	64742-94-5	0.1-1
NAPHTHALENE	91-20-3	0.1-1

\*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.

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<b>Eye contact</b>	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.
<b>Skin contact</b>	Immediate medical attention is not required. Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician.
<b>Inhalation</b>	Immediate medical attention is not required. If symptoms persist, call a physician. Move to fresh air in case of accidental inhalation of vapors or decomposition products.
<b>Ingestion</b>	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Consult a physician. Do NOT induce vomiting.
<b>Protection of First-aiders</b>	Absorb with sand ,clay, or other suitable material. Hard surfaces may be mopped with water.

## **Most important symptoms/effects, acute and delayed**

**Main Symptoms** Not applicable.

## **Indication of immediate medical attention and special treatment needed, if necessary**

**Notes to physician** Treat symptomatically.

## **5. FIRE-FIGHTING MEASURES**

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### **Suitable Extinguishing Media**

Use: Dry chemical. Carbon dioxide (CO<sub>2</sub>). Water spray. Alcohol-resistant foam.

**Unsuitable Extinguishing Media** Decomposition by contact with water may generate vapors which can be ignited by heat or open flame.

### **Specific hazards arising from the chemical**

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

### **Explosion Data**

**Sensitivity to Mechanical Impact** none.

**Sensitivity to Static Discharge** Yes.

### **Protective Equipment and Precautions for Firefighters**

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

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions, protective equipment and emergency procedures

**Personal precautions** Absorb with sand ,clay, or other suitable material. Hard surfaces may be mopped with water. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

### Environmental precautions

**Environmental precautions** 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. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

### 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** Soak up with inert absorbent material. Dam up. Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Advice on safe handling** Use only in area provided with appropriate exhaust ventilation. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Keep away from heat, sparks and open flame. No smoking. Wear personal protective equipment. Do not breathe vapors or spray mist. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors).

### Conditions for safe storage, including any incompatibilities

**Technical measures/Storage conditions** Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers.



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**Incompatible products** None known based on information supplied.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
KEROSENE 8008-20-6	TWA: 200 mg/m <sup>3</sup> total hydrocarbon vapor application restricted to conditions in which there are negligible aerosol exposures Skin - potential significant contribution to overall exposure by the cutaneous route	-	TWA: 100 mg/m <sup>3</sup>
NAPHTHALENE 91-20-3	TWA: 10 ppm Skin - potential significant contribution to overall exposure by the cutaneous route	TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m <sup>3</sup> (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m <sup>3</sup> (vacated)	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 15 ppm STEL: 75 mg/m <sup>3</sup>

ACGIH: (American Conference of Governmental Industrial Hygienists)

OSHA: (Occupational Safety & Health Administration)

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).

### Exposure controls

**Engineering Measures** Showers  
Eyewash stations  
  
Ventilation systems.

### Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tightly fitting safety goggles.

**Skin and body protection** Chemical resistant apron. Protective gloves.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be

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required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

**Hygiene measures**

When using, do not eat, drink or smoke. Provide regular cleaning of equipment, work area and clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical and chemical properties

<b>Physical state</b>	Liquid		
<b>Appearance</b>	Clear	<b>Odor</b>	Solvent
<b>Color</b>	Light Amber	<b>Odor Threshold</b>	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Methods</u>
pH	No information available	
Melting/freezing point	No information available	
Boiling point/boiling range	No information available	
Flash Point	65 °C / 149 °F	(based on components)
Evaporation rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limits in Air		
upper flammability limit	No information available	
lower flammability limit	No information available	
Vapor pressure	No information available	
Vapor density	No information available	
Specific Gravity	0.832	

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<b>Water solubility</b>	Practically insoluble
<b>Partition coefficient: n-octanol/water</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity</b>	No information available
<b>Explosive properties</b>	No information available

## Other information

**VOC Content(%)** 88.84

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Conditions to Avoid

Heat, flames and sparks.

### Incompatible Materials

None known based on information supplied.

### Hazardous Decomposition Products

None known based on information supplied.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

**Product Information** Product does not present an acute toxicity hazard based on known information

**Inhalation** Harmful by inhalation.

**Eye contact** Avoid contact with eyes.

**Skin contact** Irritating to skin.

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**Ingestion**

Harmful if swallowed. May be fatal if swallowed and enters airways.

**Component Information**

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
KEROSENE 8008-20-6	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 5.28 mg/L ( Rat ) 4 h
HYDROCARBON SOLVENT 64741-86-2	> 5000 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	= 4.6 mg/L ( Rat ) 4 h
SOLVENT NAPHTHA 64742-94-5	> 5000 mg/kg ( Rat )	> 2 mL/kg ( Rabbit )	> 590 mg/m <sup>3</sup> ( Rat ) 4 h
NAPHTHALENE 91-20-3	= 1110 mg/kg ( Rat )	= 1120 mg/kg ( Rabbit )	> 340 mg/m <sup>3</sup> ( Rat ) 1 h

**Information on toxicological effects**

**Symptoms**

No information available.

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

**Sensitization**

No information available.

**Germ Cell Mutagenicity**

No information available.

**Carcinogenicity**

The table below indicates whether each agency has evaluated a listed ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
NAPHTHALENE 91-20-3	A3	Group 2B	Reasonably Anticipated	-

**ACGIH: (American Conference of Governmental Industrial Hygienists)**

A3 - Animal Carcinogen

**IARC: (International Agency for Research on Cancer)**

Group 2B - Possibly Carcinogenic to Humans

Group 2A - Probably Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**NTP: (National Toxicity Program)**

Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen

**OSHA: (Occupational Safety & Health Administration)**

X - Present

**Reproductive toxicity**

This product does not contain any known or suspected reproductive hazards.

**Specific target organ systemic toxicity (single exposure)**

may cause drowsiness and dizziness. May cause respiratory irritation.

**Specific target organ systemic toxicity (repeated exposure)**

No information available.

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**Target Organ Effects** Central nervous system, Eyes, Respiratory system, Skin.

**Aspiration hazard** May be fatal if swallowed and enters airways.

## Numerical measures of toxicity - Product Information

**Unknown Acute Toxicity** 3.46611% of the mixture consists of ingredient(s) of unknown toxicity

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

**ATEmix (oral)** 5707 mg/kg

**ATEmix (dermal)** 2283 mg/kg

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
HYDROCARBON SOLVENT 64741-86-2	-	35 mg/L LC50 Pimephales promelas 96h flow-through	-	-
SOLVENT NAPHTHA 64742-94-5	-	1740 mg/L LC50 Lepomis macrochirus 96h static 19 mg/L LC50 Pimephales promelas 96h static 2.34 mg/L LC50 Oncorhynchus mykiss 96h 41 mg/L LC50 Pimephales promelas 96h 45 mg/L LC50 Pimephales promelas 96h flow-through	-	0.95 mg/L EC50 Daphnia magna 48h
NAPHTHALENE 91-20-3	-	0.91 - 2.82 mg/L LC50 Oncorhynchus mykiss 96h static 5.74 - 6.44 mg/L LC50 Pimephales promelas 96h flow-through 1.6 mg/L LC50 Oncorhynchus mykiss 96h flow-through 1.99 mg/L LC50 Pimephales promelas 96h static 31.0265 mg/L LC50 Lepomis macrochirus 96h static	-	1.09 - 3.4 mg/L EC50 Daphnia magna 48h Static 1.96 mg/L EC50 Daphnia magna 48h Flow through 2.16 mg/L LC50 Daphnia magna 48h

### Persistence and degradability

No information available.

### Bioaccumulation

No information available.

Chemical Name	log Pow
SOLVENT NAPHTHA 64742-94-5	6.1
NAPHTHALENE 91-20-3	3.3

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**Other adverse effects** No information available

## 13. DISPOSAL CONSIDERATIONS

**Waste treatment**

**Waste Disposal Methods** This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

**Contaminated packaging** Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

**DOT Ground** CONSUMER COMMODITY ORM-D  
or  
LIMITED QUANTITY

**IATA** UN1223, KEROSENE SOLUTION, 3, PGIII, LTD. QTY

**IMDG** UN1223, KEROSENE SOLUTION, 3, PGIII, LTD. QTY

## 15. REGULATORY INFORMATION

**International Inventories**

Chemical Name	TSCA	DSL/NDSL	EINECS/ELI NCS	ENCS	IECSC	KECL	PICCS	AICS
KEROSENE	X	X	X	X	X	X	X	X
HYDROCARBON SOLVENT	X	X	X	Not listed	X	X	X	X

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SOLVENT NAPHTHA	X	X	X	X	X	X	X	X
NAPHTHALENE	X	X	X	X	X	X	X	X

**Legend:**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDL** - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Commercial Chemical Substances/EU List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**CHINA** - 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

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## U.S. Federal Regulations

### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %*	SARA 313 - Threshold Values %
NAPHTHALENE - 91-20-3	91-20-3	0.1-1	0.1

### 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 contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
NAPHTHALENE 91-20-3	100 lb	X	X	X

## CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
NAPHTHALENE 91-20-3	100 lb 1 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ RQ 1 lb final RQ RQ 0.454 kg final RQ

## U.S. State Regulations

### California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
NAPHTHALENE - 91-20-3	X

## U.S. State Right-to-Know Regulations



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Chemical Name	New Jersey	Massachusetts	Pennsylvania
KEROSENE 8008-20-6	X	X	X
NAPHTHALENE 91-20-3	X	X	X

EPA Pesticide Registration Number Not applicable

**Canada**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.



**16. OTHER INFORMATION**

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

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**Issuing date** 06/24/2015

**Revision Date** 06/24/2015

**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**