



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

SAFETY DATA SHEET – MIGHTY VS7 FUSION FSC #SB500

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
Selmer, TN 38375

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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

| | |
|---------------------|---|
| Eye contact | 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. |
| Skin contact | Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If skin irritation persists, call a physician. |
| Inhalation | 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. |
| Ingestion | 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 ³ TWA: 5 mg/m ³ CN (vacated) TWA: 40 ppm (vacated) TWA: 70 mg/m ³ (vacated) TWA: 5 mg/m ³ (vacated) STEL: 60 ppm (vacated) STEL: 105 mg/m ³ S* | IDLH: 500 ppm IDLH: 25 mg/m ³ CN TWA: 20 ppm TWA: 34 mg/m ³ |
| MONOISOPROPYLAMINE 75-31-0 | STEL: 10 ppm TWA: 5 ppm | TWA: 5 ppm TWA: 12 mg/m ³ (vacated) TWA: 5 ppm (vacated) TWA: 12 mg/m ³ (vacated) STEL: 10 ppm (vacated) STEL: 24 mg/m ³ | 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

| | | | |
|----------------|---------|----------------|--------------------------|
| Physical state | Aerosol | Odor | Light Vanilla Scent |
| Appearance | Clear | Odor Threshold | Solvent |
| Color | amber | | 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 |
|----------------|-------|

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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| | |
|---------------------|--|
| Inhalation | 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. |
| Eye contact | Irritating to eyes. Avoid contact with eyes. |
| Skin contact | 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. |
| Ingestion | 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

| | |
|-----------------|---|
| Symptoms | 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. |
|-----------------|---|

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

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

Numerical measures of toxicity - Product Information

| | |
|---|---|
| Unknown Acute Toxicity | 5E-06% 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) | 1805 mg/kg |
| ATEmix (dermal) | 2183 mg/kg |
| ATEmix (inhalation-dust/mist) | 14.4 mg/l |
| ATEmix (inhalation-vapor) | 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 |
|------------------------------|------|----------|-------------------|------|-------|------|-------|------|
| DIMETHYLEETHER | 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):

SAFETY DATA SHEET – MIGHTY VS7 FUSION FSC #SB500

| 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

| | | | | |
|--------------------|-----------------|----------------|-------------------|---------------------------------|
| <u>NFPA</u> | Health Hazard 2 | Flammability 4 | Instability 0 | Physical and chemical hazards - |
| <u>HMIS</u> | 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

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

SAFETY DATA SHEET – MIGHTY VS7 SYNTRAMAX FUEL SYSTEM CLEANER #SB304

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 CO₂, dry chemical, or foam for extinction

Precautionary Statements - Storage

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

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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| | |
|-----------------------------------|---|
| 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 | 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. |
| Inhalation | 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. |
| Ingestion | 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. |
| Protection of First-aiders | 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

Suitable Extinguishing Media

Use: Dry chemical. Carbon dioxide (CO₂). 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.

SAFETY DATA SHEET – MIGHTY VS7 SYNTRAMAX FUEL SYSTEM CLEANER #SB304

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.

SAFETY DATA SHEET – MIGHTY VS7 SYNTRAMAX FUEL SYSTEM CLEANER #SB304

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 ³ 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 ³ |
| 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 ³ (vacated) TWA: 10 ppm (vacated) TWA: 50 mg/m ³ (vacated) STEL: 15 ppm (vacated) STEL: 75 mg/m ³ (vacated) | IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³ |

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

| | | | |
|-----------------------|-------------|-----------------------|--------------------------|
| Physical state | Liquid | | |
| Appearance | Clear | Odor | Solvent |
| Color | Light Amber | Odor Threshold | 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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| | |
|---|--------------------------|
| 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(%) 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 ³ (Rat) 4 h |
| NAPHTHALENE 91-20-3 | = 1110 mg/kg (Rat) | = 1120 mg/kg (Rabbit) | > 340 mg/m ³ (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

| | | | | |
|--------------------|-----------------|----------------|-------------------|---------------------------------|
| <u>NFPA</u> | Health Hazard 2 | Flammability 2 | Instability 0 | Physical and chemical hazards - |
| <u>HMIS</u> | 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