

# SAFETY DATA SHEET – MIGHTY VS7 2 STEP INDUCTION CLEANER

## #FL101

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

#### GHS product identifier

**Product Name** MIGHTY VS7 2 STEP INDUCTION CLEANER #FL101  
COMPRISED OF: FUEL SYSTEM CLEANER #FL106  
AND TOP ENGINE CLEANER #FL112

#### Other means of identification

**Product Code(s)** FL101

**Synonyms** None

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

**Recommended Use** Removes Moisture & Fights Gas Line Freeze. Helps keep system clean.

**Uses advised against** No information available

#### Supplier's details

##### **Manufacturer:**

Phillips 66 Spectrum Corporation  
500 Industrial 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 Telephone Number** 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 FUEL SYSTEM CLEANER

#FL106

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

### GHS product identifier

**Product Name** MIGHTY VS7 FUEL SYSTEM CLEANER

### Other means of identification

**Product Code(s)** FL106

**Synonyms** None

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

**Recommended Use** Removes Moisture & Fights Gas Line Freeze. Helps keep system clean.

**Uses advised against** No information available

### Supplier's details

#### **Manufacturer:**

Phillips 66 Spectrum Corporation  
500 Industrial Drive  
Selmer, TN 38375

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SDS Requests: (800) 264-6457 or +17316454972  
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## 2. HAZARDS IDENTIFICATION

### Classification

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

|                        |             |
|------------------------|-------------|
| Germ Cell Mutagenicity | Category 1B |
| Carcinogenicity        | Category 1A |
| Flammable liquids      | Category 3  |

### GHS Label elements, including precautionary statements

#### Emergency Overview

|  |               |
|--|---------------|
| <b>Signal Word</b>   | <b>Danger</b> |
| <b>Hazard Statements</b>   |               |
| <ul style="list-style-type: none"><li>• May cause genetic defects</li><li>• May cause cancer</li></ul> |               |



### **Precautionary Statements**

#### **Prevention**

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Use personal protective equipment as required.
- 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.

#### **General Advice**

- If exposed or concerned: Get medical attention/advice

#### **Skin**

- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

#### **Fire**

- In case of fire: Use CO2, dry chemical, or foam for extinction.

#### **Storage**

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

#### **Disposal**

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

## **Hazard Not Otherwise Classified (HNOC)**

Not applicable

## **Other information**

Harmful to aquatic life with long lasting effects

0.55% of the mixture consists of ingredient(s) of unknown toxicity.

## **3. COMPOSITION/INFORMATION ON INGREDIENTS**

| Chemical Name        | CAS-No     | Weight % | Trade secret |
|----------------------|------------|----------|--------------|
| Fuels, diesel, no. 2 | 68476-34-6 | 60-100   | *            |
| Benzene              | 71-43-2    | 0.1-1    | *            |

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

## **4. FIRST AID MEASURES**

### **Description of necessary first-aid measures**

**Eye Contact** Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing. If symptoms persist, call a physician.

**Skin Contact** Wash skin with soap and water. Remove and wash contaminated clothing before re-use. If skin irritation persists, call a physician.

**Inhalation** Move to fresh air. If breathing is difficult, give oxygen. If symptoms persist, call a physician.

**Ingestion** Do NOT induce vomiting. Drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician if necessary

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

**Most Important Symptoms/Effects** No information available.

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

**Notes to Physician** Treat symptomatically.

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

### **Suitable Extinguishing Media**

Water spray. Carbon dioxide (CO<sub>2</sub>). Foam. Dry powder.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

### **Specific Hazards Arising from the Chemical**

Combustible liquid. Vapors may travel to source of ignition and flash back. Containers may explode when heated.

**Hazardous Combustion Products** Carbon monoxide. Carbon dioxide (CO<sub>2</sub>). Sulfur oxides. Nitrogen oxides (NO<sub>x</sub>).

### **Explosion Data**

**Sensitivity to Mechanical Impact** None.

**Sensitivity to Static Discharge** Yes.

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## **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** Remove all sources of ignition. Take precautionary measures against static discharges. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Use personal protective equipment. Ensure adequate ventilation.

### **Environmental Precautions**

**Environmental Precautions** Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewers, basements or confined areas. Do not allow material to contaminate ground water system. Avoid release to the environment. See Section 12 for additional Ecological Information. This product is classified as an oil under Section 311 of the Clean Water Act and Oil Pollution Act. Discharge or spills which produce a visible sheen on either surface water or in waterways/sewers that lead to surface water, must be reported to the National Response Center at 800-424-8802.

### **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** Use non-sparking tools and equipment. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Clean contaminated surface thoroughly.

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## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharges. Ground and bond all lines and equipment associated with product system. All equipment should be non-sparking and explosion proof. Use only in area provided with appropriate exhaust ventilation. In case of insufficient ventilation, wear suitable respiratory equipment. Wear personal protective equipment. Do not eat, drink or smoke when using this product. Do not take internally. Wash thoroughly after handling.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep away from open flames, hot surfaces and sources of ignition. Keep product and empty container away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place.

**Incompatible Products** Strong oxidizing agents.

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

| Chemical Name                   | ACGIH TLV  | OSHA PEL  | NIOSH IDLH                                   |
|---------------------------------|--|---|--|
| Fuels, diesel, no. 2 68476-34-6 | TWA: 100 mg/m <sup>3</sup> total hydrocarbons inhalable fraction and vapor<br>S* | -   | -  |
| Benzene<br>71-43-2              | STEL = 2.5 ppm<br>TWA: 0.5 ppm<br>S*   | TWA: 1 ppm<br>TWA: 10 ppm<br>(vacated) TWA: 10 ppm<br>(vacated) STEL: 50 ppm<br>(vacated) Ceiling: 25 ppm<br>Ceiling: 25 ppm<br>STEL: 5 ppm | IDLH: 500 ppm<br>TWA: 0.1 ppm<br>STEL: 1 ppm |

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

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

**Eye/Face Protection** Safety glasses with side-shields. If splashes are likely to occur, wear: Chemical splash goggles.

**Skin and Body Protection** Lightweight protective clothing. Impervious gloves.

**Respiratory Protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

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

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

|                       |           |                       |                          |
|-----------------------|-----------|-----------------------|--------------------------|
| <b>Physical State</b> | Liquid    | <b>Appearance</b>     | Light yellow Amber       |
| <b>Odor</b>           | Petroleum | <b>Odor Threshold</b> | No information available |

| <u>Property</u> | <u>Values</u> | <u>Remarks/ - Method</u> |
|-----------------|---------------|--------------------------|
|-----------------|---------------|--------------------------|

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pH No data available None known

|  |                                      |                                   |  |
|--|--------------------------------------|-----------------------------------|--|
| <b>Melting Point/Range Boiling Point/Boiling Range Flash Point</b> | No data available<br>149 °C<br>60 °C | None known<br>known<br>None known | None known<br>None known<br>None known |
| <b>Evaporation rate</b>  | No data available                    | No data available                 | No data available                      |
| <b>Flammability (solid, gas)</b>                                   | No data available                    | No data available                 | No data available                      |
| <b>Flammability Limits in Air</b>                                  |                                      |                                   |  |
| <b>upper flammability limit</b>                                    | No data available                    |                                   |  |
| <b>lower flammability limit</b>                                    | No data available                    |                                   |  |
| <b>Vapor Pressure</b>  | No data available                    | None known                        |  |
| <b>Vapor Density</b>   | No data available                    | None known                        |  |
| <b>Specific Gravity</b>  | 0.85                                 | None known                        | None known                             |
| <b>Water Solubility</b>  | Insoluble in water.                  | known                             | None known                             |
| <b>Solubility in other solvents</b>                                | No data available                    |                                   |  |
| <b>Partition coefficient: n-octanol/water</b>                      | No data available                    |                                   | None known                             |
| <b>Autoignition Temperature</b>                                    | No data available                    |                                   | None known                             |
| <b>Decomposition Temperature</b>                                   | No data available                    |                                   | None known                             |
| <b>Viscosity</b>   | No data available                    |                                   | None known                             |

**Flammable Properties** Not flammable

**Explosive Properties** No data available  
**Oxidizing Properties** No data available

## Other information

**VOC Content (%)** No data available

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### Chemical stability

Stable under recommended storage conditions.

### Possibility of hazardous reactions

None under normal processing.

### Hazardous Polymerization

Hazardous polymerization does not occur.

### Conditions to avoid

Heat, flames and sparks. Static discharge. Incompatible products.

### Incompatible materials

Strong oxidizing agents.

### Hazardous decomposition products

Carbon oxides. Nitrogen oxides (NOx). Sulfur oxides. Hydrogen sulfide. Hydrocarbons.

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## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### **Product Information**

##### **Inhalation**

Inhalation of vapors in high concentration may cause irritation of respiratory system.



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**Eye Contact** Contact with eyes may cause irritation.  
**Skin Contact** Prolonged skin contact may cause skin irritation. Prolonged skin contact may defat the skin and produce dermatitis.  
**Ingestion** May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

## Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

## Delayed and immediate effects and also chronic effects from short and long term exposure

**Sensitization** No information available.  
**Mutagenic Effects** May cause genetic defects.  
**Carcinogenicity** May cause cancer. The table below indicates whether each agency has listed any ingredient as a carcinogen.

| Chemical Name        | ACGIH | IARC    | NTP   | OSHA |
|----------------------|-------|---------|-------|------|
| Fuels, diesel, no. 2 | A3    | Group 3 |       |      |
| Benzene              | A1    | Group 1 | Known | X    |

**Reproductive Toxicity** No information available.  
**STOT - single exposure** No information available.  
**STOT - repeated exposure** No information available.  
**Aspiration Hazard** No information available.

## Numerical measures of toxicity - Product

**Acute Toxicity** 0.55% of the mixture consists of ingredient(s) of unknown toxicity.

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

| Chemical Name                      | Toxicity to Algae  | Toxicity to Fish   | Toxicity to Microorganisms | Daphnia Magna (Water Flea)                            |
|------------------------------------|--|--|----------------------------|---|
| Fuels, diesel, no. 2<br>68476-34-6 |  | LC50 96 h: = 35 mg/L<br>flow-through (Pimephales<br>promelas)  |                            | EL50 48 h = 6.4 mg/L<br>(Daphnia magna)               |
| Benzene 71-43-2                    | EC50 72 h: = 29 mg/L<br>(Pseudokirchneriella<br>subcapitata) | LC50 96 h: = 5.3 mg/L<br>flow-through (Oncorhynchus<br>mykiss) |                            | EC50 48 h: 8.76 - 15.6 mg/L<br>Static (Daphnia magna) |

**Persistence and Degradability** No information available.

### Bioaccumulation

| Chemical Name | Log Pow |
|---------------|---------|
| Benzene       | 1.83    |

### Other Adverse Effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

**Waste Disposal Methods** Dispose of in accordance with federal, state, and local regulations

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## Contaminated Packaging

Do not re-use empty containers.

| Chemical Name     | RCRA              | RCRA - Basis for Listing   | RCRA - D Series Wastes      | RCRA - U Series Wastes |
|-------------------|-------------------|--|-----------------------------|------------------------|
| Benzene - 71-43-2 | waste number U019 | Included in waste streams:<br>F005, F024, F025, F037,<br>F038, F039, K085, K104,<br>K105, K141, K142, K143,<br>K144, K145, K147, K151,<br>K159, K169, K171, K172 | = 0.5 mg/L regulatory level | U019                   |

## 14. TRANSPORT INFORMATION

### DOT

Proper shipping name

Consumer commodity

Hazard Class

ORM-D

Description

Consumer commodity, ORM-D

Emergency Response Guide  
Number

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## TDG

**UN-Number** UN1268  
**Proper Shipping Name** Petroleum distillates, n.o.s.  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1268, Petroleum distillates, n.o.s., 3, III

## MEX

**UN-Number** UN1268  
**Proper Shipping Name** Petroleum distillates, n.o.s.  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1268, Petroleum distillates, n.o.s., 3, III

## ICAO

**UN-Number** UN1268  
**Proper shipping name** Petroleum distillates, n.o.s.  
**Hazard Class** 3  
**Packing Group** III  
**Description** UN1268, Petroleum distillates, n.o.s., 3, III

## IATA

**UN-Number** UN1268  
**Proper Shipping Name** Petroleum distillates, n.o.s.  
**Hazard Class** 3  
**Packing Group** III  
**ERG Code** 3L  
**Description** UN1268, Petroleum distillates, n.o.s., 3, III

## IMDG/IMO

**UN-Number** UN1268  
**Proper Shipping Name** Petroleum distillates, n.o.s.  
**Hazard Class** 3  
**Packing Group** III  
**EmS No.** F-E, S-E  
**Description** UN1268, Petroleum distillates, n.o.s., 3, III, (60°C c.c.)

## RID

**UN-Number** UN1268  
**Proper Shipping Name** Petroleum distillates, n.o.s.  
**Hazard Class** 3  
**Packing Group** III  
**Classification Code** F1  
**Description** UN1268, Petroleum distillates, n.o.s., 3, III

## ADR

**UN-Number** UN1268

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**Proper Shipping Name** Petroleum distillates, n.o.s.  
**Hazard Class** 3  
**Packing Group** III  
**Classification Code** F1  
**Tunnel Restriction Code** (D/E)  
**Description** UN1268, Petroleum distillates, n.o.s., 3, III, (D/E)

## ADN

**Proper Shipping Name** Petroleum distillates, n.o.s.  
**Hazard Class** 3  
**Packing Group** III  
**Classification Code** F1

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**Special Provisions** 363  
**Description** UN1268, Petroleum distillates, n.o.s., 3, III  
**Limited Quantity** 5 L  
**Ventilation** VE01

## 15. REGULATORY INFORMATION

### International Inventories

#### Legend

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

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

### U.S. Federal Regulations

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 % |
|---------------|---------|----------|-------------------------------|
| Benzene       | 71-43-2 | 0.1-1    | 0.1                           |

### SARA 311/312 Hazard Categories

**Acute Health Hazard** No  
**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 |
|---------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Benzene       | 10 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                                    |
|---------------|--------------------------|------------------------------------|---------------------------------------|
| Benzene       | 10 lb                    |                                    | RQ 10 lb final RQ RQ 4.54 kg final RQ |

### U.S. State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals:

| Chemical Name | CAS-No  | California Prop. 65                        |
|---------------|---------|--|
| Benzene       | 71-43-2 | Carcinogen Developmental Male Reproductive |
| Naphthalene   | 91-20-3 | Carcinogen                                 |

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

"X" designates that the ingredients are listed on the state right to know list.

| Chemical Name        | New Jersey | Massachusetts | Pennsylvania | Illinois | Rhode Island |
|----------------------|------------|---------------|--------------|----------|--------------|
| Fuels, diesel, no. 2 | X          |               |              |          |              |
| Benzene              | X          | X             | X            | X        | X            |
| Naphthalene          | X          | X             | X            | X        |              |

## U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

## 16. OTHER INFORMATION

|             |                  |                |                   |                                 |
|-------------|------------------|----------------|-------------------|---------------------------------|
| <u>NFPA</u> | Health Hazard 1  | Flammability 2 | Instability 0     | Physical and Chemical Hazards - |
| <u>HMIS</u> | Health Hazard 1* | Flammability 2 | Physical Hazard 0 | Personal Protection X           |

\*Indicates a chronic health hazard.

Issuing Date 07-23-2015  
Revision Date 07-23-2015  
Revision Note None

### General 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 TOP ENGINE CLEANER #FL112

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

### Product identifier

**Product name** MIGHTY VS7 TOP ENGINE CLEANER

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

**Product code** FL112

**Product Type** Highly Flammable Liquid and Vapor  
**Synonyms** None

### Supplier's details

**Recommended Use** Top 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

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

**Company Emergency Phone Number** USA: (800) 264-6457 or +1731645497



# SAFETY DATA SHEET - MIGHTY VS7 TOP ENGINE CLEANER #FL112

## Precautionary Statements - Response

If exposed or concerned: Get medical advice/attention

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

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation occurs: Get medical advice/attention

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: Immediately call a POISON CENTER or doctor/physician

Do NOT induce vomiting

In case of fire, use water fog, dry chemical, foam, carbon dioxide (CO<sub>2</sub>). Cool containers /tanks with water spray. Do not use a solid water stream as it may scatter and spread fire.

## 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

- Very toxic to aquatic life with long lasting effects

0% of the mixture consists of ingredient(s) of unknown toxicity

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name     | CAS-No    | Weight %* |
|-------------------|-----------|-----------|
| XYLENE            | 1330-20-7 | 40-50     |
| ISOPROPYL ALCOHOL | 67-63-0   | 25-35     |
| ETHYL BENZENE     | 100-41-4  | 10-20     |
| DIACETONE ALCOHOL | 123-42-2  | 10-20     |
| TOLUENE           | 108-88-3  | 0.1-1.0   |

\*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** Avoid contact with skin, eyes, and clothing. Avoid breathing, vapors, mist, or gas.

**Eye contact** Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**Skin contact** Wash off immediately with plenty of water. If skin irritation persists, call a physician.

**Inhalation** Move to fresh air. If not breathing, give artificial respiration. If breathing has stopped, contact emergency medical services immediately.



## SAFETY DATA SHEET - MIGHTY VS7 TOP ENGINE CLEANER #FL112

**Ingestion** Do NOT induce vomiting. Call a physician or Poison Control Center immediately. Never give anything by mouth to an unconscious person. Risk of product entering the lungs on vomiting after ingestion.

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

**Main Symptoms** May cause skin irritation. Drowsiness. Dizziness. Difficulty breathing.

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

**Notes to physician** Treat symptomatically.

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

### **Suitable Extinguishing Media**

water fog. Dry chemical. Foam. Carbon dioxide (CO<sub>2</sub>). Cool containers / tanks with water spray.

**Unsuitable Extinguishing Media** Do not use a solid water stream as it may scatter and spread fire.

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

Flammable /Combustible liquid. Container may burst in fire.

### **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. Use shielding to protect fire-fighters from bursting containers.

## **6. ACCIDENTAL RELEASE MEASURES**

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

**Personal precautions** Ensure adequate ventilation.

### **Environmental precautions**

**Environmental precautions** Report spills as required by local and federal regulations.

### **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** Contain liquid and collect with an inert, non-combustible material.

## **7. HANDLING AND STORAGE**

### **Precautions for safe handling**

**Advice on safe handling** Keep away from fire, sparks, and heated surfaces. No smoking near areas where material is stored or handled. Use only safe containers. Do not pressurize, cut, heat, weld or expose containers to sources of ignition.

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

**Technical measures/Storage conditions** Keep containers tightly closed in a dry, cool and well-ventilated place.

**Incompatible products** Store away from strong oxidizers and acids.

**SAFETY DATA SHEET - MIGHTY VS7 TOP ENGINE CLEANER #FL112**

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

Control parameters

**Exposure Guidelines**

| Chemical Name                 | ACGIH TLV                     | OSHA PEL  | NIOSH IDLH  |
|-------------------------------|-------------------------------|---|---|
| XYLENE<br>1330-20-7           | STEL: 150 ppm<br>TWA: 100 ppm | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup><br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 435 mg/m <sup>3</sup><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 655 mg/m <sup>3</sup>  | -   |
| ISOPROPYL ALCOHOL<br>67-63-0  | STEL: 400 ppm<br>TWA: 200 ppm | TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>(vacated) TWA: 400 ppm<br>(vacated) TWA: 980 mg/m <sup>3</sup><br>(vacated) STEL: 500 ppm<br>(vacated) STEL: 1225 mg/m <sup>3</sup> | IDLH: 2000 ppm<br>TWA: 400 ppm<br>TWA: 980 mg/m <sup>3</sup><br>STEL: 500 ppm<br>STEL: 1225 mg/m <sup>3</sup> |
| ETHYL BENZENE<br>100-41-4     | TWA: 20 ppm                   | TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup><br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 435 mg/m <sup>3</sup><br>(vacated) STEL: 125 ppm<br>(vacated) STEL: 545 mg/m <sup>3</sup>  | IDLH: 800 ppm<br>TWA: 100 ppm<br>TWA: 435 mg/m <sup>3</sup><br>STEL: 125 ppm<br>STEL: 545 mg/m <sup>3</sup>   |
| DIACETONE ALCOHOL<br>123-42-2 | TWA: 50 ppm                   | TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup><br>(vacated) TWA: 50 ppm<br>(vacated) TWA: 240 mg/m <sup>3</sup>  | IDLH: 1800 ppm<br>TWA: 50 ppm<br>TWA: 240 mg/m <sup>3</sup>   |
| TOLUENE<br>108-88-3           | TWA: 20 ppm                   | TWA: 200 ppm<br>(vacated) TWA: 100 ppm<br>(vacated) TWA: 375 mg/m <sup>3</sup><br>(vacated) STEL: 150 ppm<br>(vacated) STEL: 560 mg/m <sup>3</sup><br>Ceiling: 300 ppm            | IDLH: 500 ppm<br>TWA: 100 ppm<br>TWA: 375 mg/m <sup>3</sup><br>STEL: 150 ppm<br>STEL: 560 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**  
(11th Cir., 1992).

Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962

Exposure controls

**Engineering Measures**

Ventilation systems. Use adequate ventilation to keep the exposure levels below the OELs.

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.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical and chemical properties

**Physical state**

Liquid

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|  |                          |   |                          |
|--|--------------------------|---|--------------------------|
| <b>Appearance</b>                      | Clear                    | <b>Odor</b>   | Solvent                  |
| <b>Color</b>                           | clear                    | <b>Odor Threshold</b>                                   | No information available |
| <b>Property</b>                        | <b>Values</b>            | <b>Remarks • Methods</b>                                |                          |
| pH                                     | No information available | Based on lowest flashpoint of the products constituent. |                          |
| Melting/freezing point                 | No information available |   |                          |
| Boiling point/boiling range            | No information available |   |                          |
| Flash Point                            | 12 °C / 53.6 °F          |   |                          |
| 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                       | 0.849                    |   |                          |
| 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 |   |                          |
| <b><u>Other information</u></b>        |                          |   |                          |
| VOC Content(%)                         | 100                      |   |                          |

**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**  
Store away from strong oxidizers and acids.

**Hazardous Decomposition Products**  
Carbon oxides.

**11. TOXICOLOGICAL INFORMATION**

**Information on likely routes of exposure**

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

**Inhalation**  
headache, nausea, and dizziness.                      Exposure to high vapour concentrations may cause nervous systems effects such as

**Eye contact**    Irritating to eyes.

**Skin contact**    Irritating to skin. Prolonged skin contact may defat the skin and produce dermatitis.

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**Ingestion** Not acutely toxic. Aspiration into the lungs during swallowing may cause serious lung damage which may be fatal.

**Component Information**

| Chemical Name                 | LD50 Oral            | LD50 Dermal              | LC50 Inhalation                       |
|-------------------------------|----------------------|--------------------------|---------------------------------------|
| XYLENE<br>1330-20-7           | = 3500 mg/kg ( Rat ) | > 4350 mg/kg ( Rabbit )  | = 29.08 mg/L ( Rat ) 4 h              |
| ISOPROPYL ALCOHOL<br>67-63-0  | = 1870 mg/kg ( Rat ) | = 4059 mg/kg ( Rabbit )  | = 72600 mg/m <sup>3</sup> ( Rat ) 4 h |
| ETHYL BENZENE<br>100-41-4     | = 3500 mg/kg ( Rat ) | = 15400 mg/kg ( Rabbit ) | = 17.2 mg/L ( Rat ) 4 h               |
| DIACETONE ALCOHOL<br>123-42-2 | = 4 g/kg ( Rat )     | -                        | -                                     |
| TOLUENE<br>108-88-3           | = 2600 mg/kg ( Rat ) | = 12000 mg/kg ( Rabbit ) | = 12.5 mg/L ( Rat ) 4 h               |

**Information on toxicological effects**

**Symptoms** No information available.

**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.  
**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 |
|---------------------------|-------|----------|-----|------|
| XYLENE<br>1330-20-7       | -     | Group 3  | -   | -    |
| ETHYL BENZENE<br>100-41-4 | A3    | Group 2B | -   | X    |
| TOLUENE<br>108-88-3       | -     | Group 3  | -   | -    |

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

A3 - Animal Carcinogen

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

Group 2B - Possibly Carcinogenic to Humans

Group 3 - Not Classifiable as to Carcinogenicity in Humans

**OSHA:** (Occupational Safety & Health Administration) X - Present

**Reproductive toxicity** Suspected of damaging fertility or the unborn child.  
**Specific target organ systemic toxicity (single exposure)** may cause drowsiness and dizziness.  
**Specific target organ systemic toxicity (repeated exposure)** May cause damage to organs through prolonged or repeated exposure.

**Chronic toxicity** May cause adverse liver effects.  
**Target Organ Effects** Central nervous system, Eyes, Liver, Respiratory system, Skin.  
**Aspiration hazard** May be fatal if swallowed and enters airways.

**Numerical measures of toxicity - Product Information**

**Unknown Acute Toxicity** 0% 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 (dermal)** 2277 mg/kg  
**ATEmix (inhalation-dust/mist)** 2.5 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                                   |
|----------------------------|--|---|----------------------------|---|
| XYLENE 1330-20-7           | -  | 13.1 - 16.5 mg/L LC50<br>Lepomis macrochirus 96h flow-through 13.5 - 17.3 mg/L LC50 Oncorhynchus mykiss 96h 2.661 - 4.093 mg/L LC50 Oncorhynchus mykiss 96h static 23.53 - 29.97 mg/L LC50<br>Pimephales promelas 96h static 30.26 - 40.75 mg/L LC50<br>Poecilia reticulata 96h static 7.711 - 9.591 mg/L LC50<br>Lepomis macrochirus 96h static 13.4 mg/L LC50<br>Pimephales promelas 96h flow-through 19 mg/L LC50<br>Lepomis macrochirus 96h 780 mg/L LC50<br>Cyprinus carpio 96h semi-static 780 mg/L LC50<br>Cyprinus carpio 96h | -                          | 0.6 mg/L LC50 Gammarus lacustris 48h 3.82 mg/L EC50 water flea 48h                    |
| ISOPROPYL ALCOHOL 67-63-0  | 1000 mg/L EC50<br>Desmodesmus subspicatus 96h 1000 mg/L EC50<br>Desmodesmus subspicatus 72h  | 11130 mg/L LC50<br>Pimephales promelas 96h static 9640 mg/L LC50<br>Pimephales promelas 96h flow-through 1400000 µg/L LC50<br>Lepomis macrochirus 96h   | -                          | 13299 mg/L EC50 Daphnia magna 48h   |
| ETHYL BENZENE 100-41-4     | 4.6 mg/L EC50<br>Pseudokirchneriella subcapitata 72h 438 mg/L EC50<br>Pseudokirchneriella subcapitata 96h 2.6 - 11.3 mg/L EC50<br>Pseudokirchneriella subcapitata 72h static 1.7 - 7.6 mg/L EC50<br>Pseudokirchneriella subcapitata 96h static | 11.0 - 18.0 mg/L LC50<br>Oncorhynchus mykiss 96h static 7.55 - 11 mg/L LC50<br>Pimephales promelas 96h flow-through 9.1 - 15.6 mg/L LC50<br>Pimephales promelas 96h static 32 mg/L LC50<br>Lepomis macrochirus 96h static 4.2 mg/L LC50<br>Oncorhynchus mykiss 96h semi-static 9.6 mg/L LC50<br>Poecilia reticulata 96h static  | -                          | 1.8 - 2.4 mg/L EC50<br>Daphnia magna 48h  |
| DIACETONE ALCOHOL 123-42-2 | -  | 420 mg/L LC50<br>Lepomis macrochirus 96h 420 mg/L LC50<br>Lepomis macrochirus 96h static  | -                          | -   |
| TOLUENE 108-88-3           | 433 mg/L EC50<br>Pseudokirchneriella subcapitata 96h 12.5 mg/L EC50<br>Pseudokirchneriella subcapitata 72h static  | 11.0 - 15.0 mg/L LC50<br>Lepomis macrochirus 96h static 14.1 - 17.16 mg/L LC50<br>Oncorhynchus mykiss 96h static 15.22 - 19.05 mg/L LC50<br>Pimephales promelas 96h flow-through 5.89 - 7.81 mg/L LC50<br>Oncorhynchus mykiss 96h flow-through 50.87 - 70.34 mg/L LC50<br>Poecilia reticulata 96h static 12.6 mg/L LC50<br>Pimephales promelas 96h static 28.2 mg/L LC50<br>Poecilia reticulata 96h semi-static 5.8 mg/L LC50<br>Oncorhynchus mykiss 96h semi-static 54 mg/L LC50<br>Oryzias latipes 96h static                       | -                          | 5.46 - 9.83 mg/L EC50<br>Daphnia magna 48h Static 11.5 mg/L EC50<br>Daphnia magna 48h |

**Persistence and degradability**

No information available.

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## Bioaccumulation

No information available.

| Chemical Name              | log Pow |
|----------------------------|---------|
| XYLENE 1330-20-7           | 3.15    |
| ISOPROPYL ALCOHOL 67-63-0  | 0.05    |
| ETHYL BENZENE 100-41-4     | 3.118   |
| DIACETONE ALCOHOL 123-42-2 | 1.03    |
| TOLUENE 108-88-3           | 2.65    |

## Other adverse effects

No information available

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment

#### Waste Disposal Methods

Dispose of in accordance with federal, state, and local regulations.

#### Contaminated packaging

Do not re-use empty containers.

## 14. TRANSPORT INFORMATION

### DOT Ground

CONSUMER COMMODITY ORM-D

or  
LIMITED QUANTITY

### IATA QTY.

UN1993,FLAMMABLE LIQUIDS,N.O.S. (XYLENE, ISOPROPYL ALCOHOL ),3,PGII,LTD.

### IMDG LTD.QTY.

UN1993, FLAMMABLE LIQUIDS,N.O.S.(XYLENE,ISOPROPYL ALCOHOL),3,PGII,

## 15. REGULATORY INFORMATION

### International Inventories

| Chemical Name        | TSCA | DSL/NDSL | EINECS/ELI<br>NCS | ENCS | IECSC | KECL | PICCS | AICS |
|----------------------|------|----------|-------------------|------|-------|------|-------|------|
| XYLENE               | X    | X        | X                 | X    | X     | X    | X     | X    |
| ISOPROPYL<br>ALCOHOL | X    | X        | X                 | X    | X     | X    | X     | X    |
| ETHYL BENZENE        | X    | X        | X                 | X    | X     | X    | X     | X    |
| DIACETONE<br>ALCOHOL | X    | X        | X                 | X    | X     | X    | X     | X    |
| TOLUENE              | X    | X        | X                 | X    | X     | X    | X     | X    |

### Legend:

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**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 % |
|-----------------------------|-----------|-----------|-------------------------------|
| XYLENE - 1330-20-7          | 1330-20-7 | 40-50     | 1.0                           |
| ISOPROPYL ALCOHOL - 67-63-0 | 67-63-0   | 25-35     | 1.0                           |
| ETHYL BENZENE - 100-41-4    | 100-41-4  | 10-20     | 0.1                           |
| TOLUENE - 108-88-3          | 108-88-3  | 0.1-1.0   | 1.0                           |

**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 |
|------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| XYLENE 1330-20-7       | 100 lb                      |                        |                           | X                          |
| ETHYL BENZENE 100-41-4 | 1000 lb                     | X                      | X                         | X                          |
| TOLUENE 108-88-3       | 1000 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): This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material.

| Chemical Name          | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ   |
|------------------------|--------------------------|------------------------------------|--|
| XYLENE 1330-20-7       | 100 lb                   |                                    | RQ 100 lb final RQ RQ 45.4 kg final RQ                                       |
| ETHYL BENZENE 100-41-4 | 1000 lb                  |                                    | RQ 1000 lb final RQ RQ 454 kg final RQ                                       |
| TOLUENE 108-88-3       | 1000 lb 1 lb             |                                    | RQ 1000 lb final RQ RQ 454 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 |
|--------------------------|---------------------|
| ETHYL BENZENE - 100-41-4 | Carcinogen          |

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|                    |                                   |
|--------------------|-----------------------------------|
| TOLUENE - 108-88-3 | Developmental Female Reproductive |
|--------------------|-----------------------------------|

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

| Chemical Name              | New Jersey | Massachusetts | Pennsylvania |
|----------------------------|------------|---------------|--------------|
| XYLENE 1330-20-7           | X          | X             | X            |
| ISOPROPYL ALCOHOL 67-63-0  | X          | X             | X            |
| ETHYL BENZENE 100-41-4     | X          | X             | X            |
| DIACETONE ALCOHOL 123-42-2 | X          | X             | X            |
| TOLUENE 108-88-3           | 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><u>NFPA</u></b> | Health Hazard 2 | Flammability 3 | Instability 0     | Physical and chemical hazards - |
| <b><u>HMIS</u></b> | Health Hazard 2 | Flammability 3 | Physical Hazard 0 | Personal protection B           |

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Revision Date 09-08-2015

**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**