1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product information

Trade name : JP-8 (MIL-T-83133)
Material : 1061882, 1024287, 1024291, 1024290, 1024289, 1024288

Company : Chevron Phillips Chemical Company LP
Specialty Chemicals
10001 Six Pines Drive
The Woodlands, TX 77380

Local : Chevron Phillips Chemicals International N.V.
Brusselsesteenweg 355
B-3090 Overijse
Belgium

MSDS Requests: (800) 852-5530
Technical Information: (832) 813-4862
Responsible Party: Product Safety Group
Email: msds@cpchem.com

Emergency telephone:

Health:
866.442.9628 (North America)
1.832.813.4984 (International)

Transport:
North America: CHEMTREC 800.424.9300 or 703.527.3887
Asia: +800 CHEMCALL (+800 2436 2255) China: 0532.8388.9090
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Chemcare Asia: Tel: +65 6848 9048 - Mob: +65 8382 9188 - Fax: +65 6848
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600

Responsible Department : Product Safety and Toxicology Group
E-mail address : msds@CPChem.com
Website : www.CPChem.com

2. HAZARDS IDENTIFICATION

Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

- Flammable liquids, Category 3
- Carcinogenicity, Category 2
- Skin irritation, Category 2
- Aspiration hazard, Category 1
- Specific target organ systemic toxicity - repeated exposure, Category 1, Eyes

H226: Flammable liquid and vapor.
H351: Suspected of causing cancer.
H315: Causes skin irritation.
H304: May be fatal if swallowed and enters airways.
H372: Causes damage to organs through prolonged or repeated exposure.
Blood
Acute aquatic toxicity, Category 3
Chronic aquatic toxicity, Category 3

H402: Harmful to aquatic life.
H412: Harmful to aquatic life with long lasting effects.

Classification (67/548/EEC, 1999/45/EC)

Flammable R10: Flammable.
Harmful R65: Harmful: may cause lung damage if swallowed.
Carcinogenic Category 3 R40: Limited evidence of a carcinogenic effect.
Dangerous for the environment R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Label elements

Labeling (REGULATION (EC) No 1272/2008)

Hazard pictograms:

Signal Word: Danger

Hazard Statements:
- H226 Flammable liquid and vapor.
- H304 May be fatal if swallowed and enters airways.
- H315 Causes skin irritation.
- H351 Suspected of causing cancer.
- H372 Causes damage to organs (Eyes, Blood, Hematopoietic organ) through prolonged or repeated exposure.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary Statements:

Prevention:
- P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- P243 Take precautionary measures against static discharge.
- P264 Wash face, hands and any exposed skin thoroughly after handling.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
- P331 Do NOT induce vomiting.
- P370 + P378 In case of fire: Evacuate area. Use manufacturer/supplier or the competent authority to specify appropriate media for extinction.

Storage:
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Hazardous ingredients which must be listed on the label:
- 8008-20-6 Kerosene C9-C16
MATERIAL SAFETY DATA SHEET

JP-8 (MIL-T-83133)
Version 1.3
Revision Date 2010-12-14

- 91-20-3 Naphthalene

Labeling according to EC Directives (1999/45/EC)

Hazard pictograms:
- Harmful
- Dangerous for the environment

R-phrase(s):
- R10 Flammable.
- R40 Limited evidence of a carcinogenic effect.
- R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R65 Harmful: may cause lung damage if swallowed.

S-phrase(s):
- S36/37 Wear suitable protective clothing and gloves.
- S43 In case of fire, use .?
- S57 Use appropriate container to avoid environmental contamination.
- S60 This material and its container must be disposed of as hazardous waste.
- S62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Hazardous ingredients which must be listed on the label:
- Kerosene C9-C16 8008-20-6
- Naphthalene 91-20-3

3. COMPOSITION/INFORMATION ON INGREDIENTS

Synonyms: JP-8 Mil-T-83133

Molecular formula: UVCB

Mixtures

Hazardous ingredients

<table>
<thead>
<tr>
<th></th>
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</tr>
</thead>
<tbody>
<tr>
<td>Kerosene C9-C16</td>
<td>8008-20-6 232-366-4</td>
<td>Xn; R65</td>
<td>Asp. Tox. 1; H304 Flam. Liq. 3; H226 Skin Irrit. 2; H315 STOT SE 3; H336</td>
<td>100</td>
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<tr>
<td>Naphthalene</td>
<td>91-20-3 202-049-5</td>
<td>Carc.Cat.3; R40 Xn; R22 N; R50-R53</td>
<td>Carc. 2; H351 Aquatic Acute 1; H400 Aquatic Chronic 1;</td>
<td>1 - 5</td>
<td></td>
</tr>
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</table>

MSDS Number:100000014248 3/14
4. FIRST AID MEASURES

General advice : Move out of dangerous area. Consult a physician. Show this material safety data sheet to the doctor in attendance. Symptoms of poisoning may only appear several hours later. Do not leave the victim unattended.

If inhaled : Call a physician or poison control center immediately. Move to fresh air. If unconscious place in recovery position and seek medical advice.

In case of skin contact : If skin irritation persists, call a physician. If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact : Flush eyes with water as a precaution. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. If eye irritation persists, consult a specialist.

If swallowed : Keep respiratory tract clear. Do NOT induce vomiting. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. Take victim immediately to hospital.

5. FIRE-FIGHTING MEASURES

Flash point : 37,8 °C (100,0 °F)

Autoignition temperature : No data available

Suitable extinguishing media : Dry chemical. Carbon dioxide (CO2). Alcohol-resistant foam.

Unsuitable extinguishing media : High volume water jet.

Specific hazards during fire fighting : Do not allow run-off from fire fighting to enter drains or water courses.

Special protective equipment for fire-fighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments. Use a water spray to cool fully closed containers.
**Fire and explosion protection**: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

**Hazardous decomposition products**: Carbon oxides.

### 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions**: Use personal protective equipment. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapors accumulating to form explosive concentrations. Vapors can accumulate in low areas.

**Environmental precautions**: Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities.

**Methods for cleaning up**: Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

### 7. HANDLING AND STORAGE

**Handling**

**Advice on safe handling**: Avoid formation of aerosol. Do not breathe vapors/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

**Advice on protection against fire and explosion**: Do not spray on an open flame or any other incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). Keep away from open flames, hot surfaces and sources of ignition.

**Storage**

**Requirements for storage areas and containers**: Prevent unauthorized access. No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>LT</th>
<th>Komponentai</th>
<th>Pagrindas, bazė</th>
<th>Vertė</th>
<th>Kontrolės parametrai</th>
<th>Pastaba</th>
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<tbody>
<tr>
<td></td>
<td>Kerosene C9-C16</td>
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<th>Composants</th>
<th>Base</th>
<th>Valeur</th>
<th>Paramètres de contrôle</th>
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<th>Bāze</th>
<th>Vērtība</th>
<th>Pārvaldības parametri</th>
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<td>Naphthalene</td>
<td>LV OEL</td>
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<th>Bestanddelen</th>
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<th>Waarde</th>
<th>Controleparameters</th>
<th>Opmerking</th>
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<td>TGG-8 uur</td>
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<td>NL MAC</td>
<td>TGG-15 min</td>
<td>80 mg/m³</td>
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<th>Podstawa</th>
<th>Wartość</th>
<th>Parametry dotyczące kontroli</th>
<th>Uwaga</th>
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<tr>
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<tr>
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<th>Componentes</th>
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<th>Parâmetros de controlo</th>
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<td>VLE-MP</td>
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<td>PT OEL</td>
<td>VLE CD</td>
<td>15 ppm,</td>
<td>(1), P, A4,</td>
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</table>

(1) Abrangido por legislación nacional específica o por legislación comunitaria que no se ha transpuesta
(P) Aplicación restricta às condições nas quais são negligenciáveis as exposições a aerossóis
A3 Agente carcinogénico confirmado nos animais de laboratório com relevância desconhecida no Homem
A4 Agentes não classificáveis como carcinogénicos no Homem
P Perigo de absorção cutânea

<table>
<thead>
<tr>
<th>SE</th>
<th>Beståndsdelar</th>
<th>Grundval</th>
<th>Vara</th>
<th>Kontrollparametrar</th>
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<td>NGV</td>
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<tr>
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<td>SE AFS</td>
<td>KTV</td>
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<th>Osnova</th>
<th>Vrednost</th>
<th>Kontrolné parametre</th>
<th>Poznámka</th>
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<td>MV</td>
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<th>Podataka</th>
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<td>NPEL</td>
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<th>Basis</th>
<th>Wert</th>
<th>Zu überwachende Parameter</th>
<th>Bemerkung</th>
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<td>TMW</td>
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<table>
<thead>
<tr>
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<th>Bestanddelen</th>
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<th>Waarde</th>
<th>Controleparameters</th>
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<tr>
<td>Kerosene C9-C16</td>
<td>BE OEL</td>
<td>TGG 8 hr</td>
<td>200 mg/m³</td>
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<tr>
<td>Naphthalene</td>
<td>BE OEL</td>
<td>TGG 8 hr</td>
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<td></td>
</tr>
<tr>
<td></td>
<td>BE OEL</td>
<td>TGG 15 min</td>
<td>15 ppm, 80 mg/m³</td>
<td>D,</td>
<td></td>
</tr>
</tbody>
</table>

D Opname van het agens via de huid, de stijmwijzen of de ogen vormt een belangrijk deel van de totale blootstelling. Deze opname kan het gevolg zijn van zowel direct contact als zijn aanwezigheid in de lucht.

**MSDS Number:** 100000014248 6/14
### Personal protective equipment

**Respiratory protection**: In the case of vapor formation use a respirator with an approved filter.

**Hand protection**: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection**: Eye wash bottle with pure water. Tightly fitting safety goggles.

**Skin and body protection**: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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**Respiratory protection**: In the case of vapor formation use a respirator with an approved filter.

**Hand protection**: The suitability for a specific workplace should be discussed with the producers of the protective gloves.

**Eye protection**: Eye wash bottle with pure water. Tightly fitting safety goggles.

**Skin and body protection**: Impervious clothing. Choose body protection according to the amount and concentration of the dangerous substance at the work place.
**Hygiene measures**: Avoid contact with skin, eyes and clothing. When using do not eat or drink. When using do not smoke. Wash hands before breaks and immediately after handling the product.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

**Appearance**
- **Form**: Liquid
- **Physical state**: Liquid
- **Color**: Colorless
- **Odor**: gasoline-like

**Safety data**
- **Flash point**: 37,8 °C (100,0 °F)
- **Lower explosion limit**: 0,7 %(V)
- **Upper explosion limit**: 5 %(V)
- **Oxidizing properties**: no
- **Autoignition temperature**: No data available
- **Molecular formula**: UVCB
- **Molecular Weight**: Not applicable
- **pH**: No data available
- **Freezing point**: -47,2 °C (-53,0 °F)
- **Pour point**: No data available
- **Boiling point/boiling range**: 205 - 300 °C (401 - 572 °F)
- **Vapor pressure**: 1,00 MMHG
- **Water solubility**: Negligible
- **Partition coefficient: n-octanol/water**: No data available
- **Viscosity, kinematic**: 8 cSt at 20 °C (68 °F)
- **Relative vapor density**: No data available
- **Evaporation rate**: No data available
- **Percent volatile**: > 99 %

### 10. STABILITY AND REACTIVITY

**Possibility of hazardous reactions**
# MATERIAL SAFETY DATA SHEET

## JP-8 (MIL-T-83133)

**Version 1.3**
**Revision Date 2010-12-14**

### Conditions to avoid
- Heat, sparks, fire, and oxidizing agents.

### Materials to avoid
- May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

### Other data
- This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
- No decomposition if stored and applied as directed.

## 11. TOXICOLOGICAL INFORMATION

### Acute oral toxicity
- **Kerosene C9-C16**: LD50: > 5.000 mg/kg
  - Species: rat
- **Naphthalene**: LD50: 2.300 mg/kg
  - Species: rat
  - Sex: male and female

### Acute inhalation toxicity
- **Kerosene C9-C16**: LC50: > 5.28 mg/l
  - Exposure time: 4 HR
  - Species: rat
- **Naphthalene**: LC50: >0.38 mg/m3
  - Exposure time: 4 HR

### Acute dermal toxicity
- **Kerosene C9-C16**: LD50: > 2.000 mg/kg
  - Species: rabbit
- **Naphthalene**: LD50: > 2.000 mg/kg
  - Species: rabbit

### JP-8 (MIL-T-83133)
- **Skin irritation**: May cause skin irritation in susceptible persons.

### Eye irritation
- **Vapors may cause irritation to the eyes, respiratory system and the skin.**

### Sensitization
- **Kerosene C9-C16**: Did not cause sensitization on laboratory animals.
- **Naphthalene**: Classification: Did not cause sensitization on laboratory animals.

### Repeated dose toxicity
- **Kerosene C9-C16**: Species: rabbit
  - Application Route: Dermal
  - Dose: 0, 200, 1000, 2000 mg/kg
  - Exposure time: 28 day

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MSDS Number:100000014248
9/14

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Carcinogenicity

Kerosene C9-C16:
- Species: mouse
- Dose: 0, 28.5, 50, 100%
- Exposure time: 104 wks
- Number of exposures: 2, 4, or 7 times/wk
- Remarks: weak dermal carcinogen

Naphthalene:
- Species: mouse
- Sex: male
- Dose: 10, 30 ppm
- Exposure time: 2 yrs

- Species: mouse
- Sex: female
- Dose: 10, 30 ppm
- Exposure time: 2 yrs
- Remarks: increased incidence of alveolar/bronchiolar adenomas

- Species: rat
- Sex: male
- Dose: 10, 30, 60 ppm
- Exposure time: 2 yrs

- Species: rat
- Sex: female
- Dose: 10, 30, 60 ppm
- Exposure time: 2 yrs

Teratogenicity

Kerosene C9-C16:
- Species: rat
- Application Route: Inhalation
- Dose: 0, 106, 364 ppm
- Exposure time: 6 hrs/d
- Test period: GD 6-15
- NOAEL Teratogenicity: 364 ppm
- NOAEL Maternal: 364 ppm

Naphthalene:
- Species: rabbit
- Application Route: oral gavage
- Dose: 40, 200, 400 mg/kg
- Test period: 29 d, GD 6-18
- NOAEL Teratogenicity: 400 mg/kg

JP-8 (MIL-T-83133)

Aspiration toxicity:
- May be fatal if swallowed and enters airways.
- Substances known to cause human aspiration toxicity hazards or to be regarded as if they cause human aspiration toxicity hazard.

Further information:
- Solvents may degrease the skin.
12. ECOLOGICAL INFORMATION

Toxicity to fish

Kerosene C9-C16: LC50: 20 mg/l
Exposure time: 96 HR
Species: Oncorhynchus mykiss (rainbow trout)

Naphthalene LC50: 3,2 mg/l
Exposure time: 96 HR
Species: Pimephales promelas (fathead minnow)

Toxicity to daphnia and other aquatic invertebrates.

Kerosene C9-C16: LC50: 21 mg/l
Exposure time: 48 HR
Species: Daphnia magna (Water flea)

Naphthalene LC50: 2,16 mg/l
Exposure time: 48 HR
Species: Daphnia magna (Water flea)

Toxicity to algae

Kerosene C9-C16: EL50: 15 mg/l
Exposure time: 72 HR
Species: Selenastrum capricornutum (algae)

Naphthalene EC50: 2,96 mg/l
Exposure time: 48 HR
Species: Selenastrum capricornutum (algae)

Elimination information (persistence and degradability)

Biodegradability: Expected to be ultimately biodegradable

Further information on ecology

Additional ecological information: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.
Toxic to aquatic life with long lasting effects.
Harmful to aquatic life with long lasting effects.

13. DISPOSAL CONSIDERATIONS

The information in this MSDS pertains only to the product as shipped.
Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Product: The product should not be allowed to enter drains, water
14. TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

USDOT
UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III

IMO / IMDG
UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III, MP ( ), (37.8 °C)

IATA
UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III

ADR
UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III

RID
UN1863, FUEL, AVIATION, TURBINE ENGINE, 3, III

15. REGULATORY INFORMATION

National legislation

Major Accident Hazard Legislation : 96/82/EC Update: 2003
Flammable.
6
Quantity 1: 5.000 t
Quantity 2: 50.000 t

: 96/82/EC Update: 2003
Dangerous for the environment
9b
Quantity 1: 200 t
Quantity 2: 500 t

Notification status
Europe REACH : On the inventory, or in compliance with the inventory
United States of America TSCA : On the inventory, or in compliance with the inventory
Canada DSL : On the inventory, or in compliance with the inventory
Australia AICS : On the inventory, or in compliance with the inventory
16. OTHER INFORMATION

NFPA Classification

Health Hazard: 2
Fire Hazard: 2
Reactivity Hazard: 0

Further information
Legacy MSDS Number: 169130

Significant changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information in this MSDS pertains only to the product as shipped.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

<table>
<thead>
<tr>
<th>Key or legend to abbreviations and acronyms used in the safety data sheet</th>
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<tr>
<td>ACGIH</td>
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**JP-8 (MIL-T-83133)**

**MATERIAL SAFETY DATA SHEET**

**Version 1.3**

**Revision Date 2010-12-14**

<table>
<thead>
<tr>
<th>ENCS</th>
<th>Japan, Inventory of Existing and New Chemical Substances</th>
<th>TWA</th>
<th>Time Weighted Average</th>
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<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
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<td>&lt;=</td>
<td>Less Than or Equal To</td>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
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<td>LC50</td>
<td>Lethal Concentration 50%</td>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
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</tbody>
</table>

**Full text of R-phrases referred to under sections 2 and 3**

- **R10** Flammable.
- **R22** Harmful if swallowed.
- **R40** Limited evidence of a carcinogenic effect.
- **R50** Very toxic to aquatic organisms.

**Full text of H-statements referred to under sections 2 and 3**

- **H226** Flammable liquid and vapor.
- **H228** Flammable solid.
- **H302** Harmful if swallowed.
- **H304** May be fatal if swallowed and enters airways.
- **H315** Causes skin irritation.
- **H336** May cause drowsiness or dizziness.
- **H351** Suspected of causing cancer.
- **H372** Causes damage to organs through prolonged or repeated exposure.
- **H400** Very toxic to aquatic life.
- **H402** Harmful to aquatic life.
- **H410** Very toxic to aquatic life with long lasting effects.
- **H412** Harmful to aquatic life with long lasting effects.