SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: Methylene chloride Tech
Product Use Description: Industrial chemical

Manufacturer or supplier's details
- Company: Nexeo Solutions LLC
- Address: 3 Waterway Square Place Suite 1000
  Woodlands, Tx. 77380
  United States of America

Emergency telephone number:
- Health North America: 1-855-NEXEO4U (1-855-639-3648)
- Health International: 1-855-NEXEO4U (1-855-639-3648)
- Transport North America: CHEMTREC 800.424.9300

Additional Information:
- Responsible Party: Product Safety Group
- E-Mail: msds@nexeosolutions.com
- SDS Requests: 1-855-429-2661
- SDS Requests Fax: 1-281-500-2370
- Website: www.nexeosolutions.com

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification
- Skin irritation: Category 2
- Eye irritation: Category 2A
- Germ cell mutagenicity: Category 2
- Carcinogenicity: Category 2
- Specific target organ toxicity - single exposure: Category 3 (Respiratory system, Central nervous system)
- Specific target organ toxicity - repeated exposure (Inhalation): Category 2 (Central nervous system, Liver, Blood)
- Aspiration hazard: Category 1
Hazard pictograms : 

Signal word : Danger

Hazard statements : H304 May be fatal if swallowed and enters airways. 
H315 Causes skin irritation. 
H319 Causes serious eye irritation. 
H335 May cause respiratory irritation. 
H336 May cause drowsiness or dizziness. 
H351 Suspected of causing cancer. 
H373 May cause damage to organs through prolonged or repeated exposure if inhaled.

Precautionary statements : Prevention: 
P201 Obtain special instructions before use. 
P202 Do not handle until all safety precautions have been read and understood. 
P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray. 
P264 Wash skin thoroughly after handling. 
P271 Use only outdoors or in a well-ventilated area. 
P280 Wear eye protection/ face protection. 
P280 Wear protective gloves. 
P281 Use personal protective equipment as required. 

Response: 
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician. 
P302 + P352 IF ON SKIN: Wash with plenty of soap and water. 
P304 + P340 + P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. 
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 
P308 + P313 IF exposed or concerned: Get medical advice/ attention. 
P331 Do NOT induce vomiting. 
P332 + P313 If skin irritation occurs: Get medical advice/ attention. 
P337 + P313 If eye irritation persists: Get medical advice/ attention. 
P362 Take off contaminated clothing and wash before reuse.
Potential Health Effects

Carcinogenicity:

IARC
Group 2B: Possibly carcinogenic to humans
75-09-2 Methylene chloride

ACGIH
No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

OSHA
OSHA specifically regulated carcinogen
75-09-2 Methylene chloride

NTP
Reasonably anticipated to be a human carcinogen
75-09-2 Methylene chloride

Emergency Overview

<table>
<thead>
<tr>
<th>DANGER!</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
</tr>
<tr>
<td>Colour</td>
</tr>
<tr>
<td>Odour</td>
</tr>
<tr>
<td>Hazard Summary</td>
</tr>
</tbody>
</table>

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>Methylene chloride</td>
<td>90 - 100</td>
</tr>
</tbody>
</table>

SECTION 4. FIRST AID MEASURES

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

If inhaled
Consult a physician after significant exposure.
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
Immediately flush eye(s) with plenty of water.
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.
If symptoms persist, call a physician.
Take victim immediately to hospital.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media
Dry chemical
Carbon dioxide (CO2)
Foam
Water spray

Unsuitable extinguishing media
High volume water jet

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

Hazardous combustion products
Carbon oxides
Chlorine compounds

Specific extinguishing methods
Use a water spray to cool fully closed containers.

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.
**Safety Data Sheet**

**Methylene chloride Tech**

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Special protective equipment for firefighters: Wear self-contained breathing apparatus for firefighting if necessary.

**NFPA Flammable and Combustible Liquids Classification:**  
Combustible Liquid Class IIIB

---

### SECTION 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures:**  
Use personal protective equipment.  
Ensure adequate ventilation.

**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 and materials for containment and cleaning up:**  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Keep in suitable, closed containers for disposal.

---

### SECTION 7. HANDLING AND STORAGE

**Advice on safe handling:**  
Avoid formation of aerosol.  
Do not breathe vapours/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.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Container may be opened only under exhaust ventilation hood.  
Dispose of rinse water in accordance with local and national regulations.

**Conditions for safe storage:**  
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.
SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Components</th>
<th>Value type (Form of exposure)</th>
<th>Control parameters / Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>Methylene chloride</td>
<td>TWA</td>
<td>50 ppm</td>
<td>ACGIH</td>
</tr>
</tbody>
</table>

Biological occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Biological specimen</th>
<th>Sampling time</th>
<th>Permissible concentration</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene chloride</td>
<td>75-09-2</td>
<td>Dichloromethane</td>
<td>In urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>0.3 mg/l</td>
<td>ACGIH BEI</td>
</tr>
</tbody>
</table>

Personal protective equipment

Respiratory protection: No personal respiratory protective equipment normally required. In the case of vapour formation use a respirator with an approved filter.

Hand protection

Remarks: 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. Wear face-shield and protective suit for abnormal processing problems.

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: When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.
## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>liquid</td>
</tr>
<tr>
<td>Colour</td>
<td>clear, colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>mild, sweet</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>200 - 300 ppm</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Freezing Point (Melting point/range)</td>
<td>-95 °C (-139 °F)</td>
</tr>
<tr>
<td>Boiling Point (Boiling point/boiling range)</td>
<td>40 °C (104 °F)</td>
</tr>
<tr>
<td>Flash point</td>
<td>201 °C (394 °F)</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>No data available</td>
</tr>
<tr>
<td>Burning rate</td>
<td>No data available</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>19 % (V)</td>
</tr>
<tr>
<td></td>
<td>(100 °C) (212 °F)</td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>12 % (V)</td>
</tr>
<tr>
<td></td>
<td>(100 °C) (212 °F)</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>353.2 mmHg @ 20 °C (68 °F)</td>
</tr>
<tr>
<td>Relative vapour density</td>
<td>2.93 (Air = 1.0)</td>
</tr>
<tr>
<td>Relative density</td>
<td>1.31 - 1.32 @ 25 °C (77 °F) Reference substance: (water = 1)</td>
</tr>
<tr>
<td>Density</td>
<td>Approximate 1.325 g/ml @ 25 °C (77 °F)</td>
</tr>
<tr>
<td>Bulk density</td>
<td>No data available</td>
</tr>
<tr>
<td>Solubility(ies)</td>
<td></td>
</tr>
<tr>
<td>Water solubility</td>
<td>slightly soluble</td>
</tr>
</tbody>
</table>
Safety Data Sheet
Methylene chloride Tech

Solubility in other solvents : No data available
Partition coefficient: n-octanol/water : log Pow: 1.25
Auto-ignition temperature : 556.1 °C
Thermal decomposition : No data available
Viscosity
   Viscosity, dynamic : 0.41 mPa.s @ 25 °C (77 °F)

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.
Chemical stability : Stable under normal conditions.
Possibility of hazardous reactions : No hazards to be specially mentioned.
Conditions to avoid : Heat, flames and sparks.
Incompatible materials : Bases
   Oxygen
   Potassium
   Strong oxidizing agents
   reactive metals such as aluminum and magnesium
Hazardous decomposition products : hydrogen chloride
   Chlorine
   Phosgene
   carbon dioxide and carbon monoxide

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Components:
75-09-2:
Acute oral toxicity : LD50 (rat): > 2,000 mg/kg
   Method: OECD Test Guideline 401
**Safety Data Sheet**  
**Methylene chloride Tech**  

**Version 1.0**  
**Revision Date: 02/03/2015**

```
<table>
<thead>
<tr>
<th>GLP: yes</th>
</tr>
</thead>
</table>

Acute inhalation toxicity : LC50 (rat): 52 mg/l
Acute dermal toxicity : LD50 (rat): > 2,000 mg/kg
Method: OECD Test Guideline 402
GLP: yes

**Skin corrosion/irritation**

**Product:**
Remarks: Irritating to skin.

**Components:**
**75-09-2:**
Species: rabbit
Result: Irritating to skin.

**Serious eye damage/eye irritation**

**Product:**
Remarks: Irritating to eyes.

**Components:**
**75-09-2:**
Species: rabbit
Result: Irritating to eyes.
Exposure time: 24 h
GLP: no

**Respiratory or skin sensitisation**

**Components:**
**75-09-2:**
Test Type: lymph node assay
Species: mouse
Method: OECD Test Guideline 429
Result: Did not cause sensitisation on laboratory animals.

**Germ cell mutagenicity**

**Components:**
**75-09-2:**
Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Safety Data Sheet
Methylene chloride Tech

Result: positive  
GLP: no

Genotoxicity in vivo: Test Type: In vivo micronucleus test  
Application Route: Oral  
Exposure time: once  
Dose: 1250, 2500, 4000 mg/kg bw  
Method: OECD Test Guideline 474  
Result: negative  
GLP: yes

Germ cell mutagenicity-  
Assessment: In vitro tests showed mutagenic effects

Carcinogenicity

Components:
75-09-2:  
Species: rat  
Application Route: Inhalation  
Dose: 0, 2000, and 4000 ppm  
LOAEL: 2,000  
Method: OECD Test Guideline 451  
Symptoms: Tumors  
Carcinogenicity - Assessment: Suspected human carcinogens

Reproductive toxicity

Components:
75-09-2:  
Effects on fertility: Species: rat  
Application Route: Inhalation  
Dose: 100, 500 and 1500 ppm  
Duration of Single Treatment: 6 h  
Frequency of Treatment: 5 days/week  
General Toxicity - Parent: NOAEC: > 1,500 ppm  
General Toxicity F1: NOAEC: > 1,500 ppm  
Method: OECD Test Guideline 416  
GLP: yes

Effects on foetal development: Species: rat  
Application Route: Inhalation  
Dose: 1250 ppm  
Duration of Single Treatment: 7 h  
Frequency of Treatment: 7 days/week  
General Toxicity Maternal: LOAEC: 1,226 ppm
Safety Data Sheet
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Teratogenicity: NOAEC: 1,226 ppm
Developmental Toxicity: 1,226 ppm
Method: OECD Test Guideline 414
GLP: no

Reproductive toxicity - Assessment: No evidence of adverse effects on sexual function and fertility, and on development, based on animal experiments.

STOT - single exposure
Product: No data available
Components: 75-09-2:

<table>
<thead>
<tr>
<th>Exposure routes:</th>
<th>Target Organs:</th>
<th>Assessment:</th>
<th>Remarks:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Respiratory system</td>
<td>May cause respiratory irritation., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory tract irritation.</td>
<td></td>
</tr>
<tr>
<td>Inhalation</td>
<td>Central nervous system</td>
<td>May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.</td>
<td></td>
</tr>
</tbody>
</table>

STOT - repeated exposure
Product: No data available
Components: 75-09-2:

<table>
<thead>
<tr>
<th>Exposure routes:</th>
<th>Target Organs:</th>
<th>Assessment:</th>
<th>Remarks:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inhalation</td>
<td>Central nervous system, Liver, Blood</td>
<td>May cause damage to organs through prolonged or repeated exposure., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.</td>
<td></td>
</tr>
</tbody>
</table>
Safety Data Sheet
Methylene chloride Tech

Repeated dose toxicity

**Components:**

**75-09-2:**
Species: rat, male and female  
NOAEL: 200  
Application Route: inhalation (vapour)  
Exposure time: 2 yr  
Number of exposures: 6 h/d, 5 d/wk  
Dose: 50, 200, and 500 ppm  
Target Organs: Liver

Aspiration toxicity

**Product:**
May be fatal if swallowed and enters airways.

**Components:**

**75-09-2:**
May be fatal if swallowed and enters airways.

Further information

**Product:**
Remarks: Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting., Concentrations substantially above the TLV value may cause narcotic effects., Solvents may degrease the skin.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

**Components:**

**75-09-2:**
Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): > 100 mg/l  
Exposure time: 96 h  
GLP: no

Toxicity to daphnia and : EC50 (Daphnia magna (Water flea)): 27 mg/l
other aquatic invertebrates
Exposure time: 48 h
Test Type: static test

Toxicity to algae
Remarks: No data available

Ecotoxicology Assessment
Acute aquatic toxicity
Harmful to aquatic life.

Chronic aquatic toxicity
Harmful to aquatic life with long lasting effects.

**Persistence and degradability**

**Components:**
75-09-2:
Biodegradability: aerobic
Inoculum: Activated sludge, domestic, non-adapted
Biodegradation: 68%
Exposure time: 28 d
Method: OECD Test Guideline 301D
GLP: yes
Remarks: Readily biodegradable

**Bioaccumulative potential**

**Components:**
75-09-2:
Partition coefficient: n-octanol/water: Pow: 1.25

**Mobility in soil**
No data available

**Other adverse effects**
No data available

**Product:**
Regulation
40 CFR Protection of Environment; Part 82 Protection of Stratospheric Ozone - CAA Section 602 Class I Substances

Remarks
This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

**Additional ecological information**
An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.
SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods
Waste from residues: Dispose of in accordance with all applicable local, state and federal regulations. For assistance with your waste management needs - including disposal, recycling and waste stream reduction, contact NEXEO's Environmental Services Group at 800-637-7922.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

IATA (International Air Transport Association): UN1593, DICHLOROMETHANE, 6.1, III, Flash Point: 201 °C (394 °F)

IMDG (International Maritime Dangerous Goods): UN1593, DICHLOROMETHANE, 6.1, III

DOT (Department of Transportation): UN1593, DICHLOROMETHANE, 6.1, III

SECTION 15. REGULATORY INFORMATION

OSHA Hazards: Aspiration hazard, Carcinogen, Moderate skin irritant, Moderate eye irritant, Moderate respiratory irritant, Mutagen

WHMIS Classification: D1B: Toxic Material Causing Immediate and Serious Toxic Effects D2A: Very Toxic Material Causing Other Toxic Effects D2B: Toxic Material Causing Other Toxic Effects

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methylene chloride</td>
<td>75-09-2</td>
<td>1000</td>
<td>1000</td>
</tr>
</tbody>
</table>

SARA 304 Extremely Hazardous Substances Reportable Quantity
### Safety Data Sheet

#### Methylene chloride Tech

**Version 1.0**  
**Revision Date:** 02/03/2015

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Component RQ (lbs)</th>
<th>Calculated product RQ (lbs)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oxirane, 2-methyl-</td>
<td>75-56-9</td>
<td>100</td>
<td>*</td>
</tr>
</tbody>
</table>

*: Calculated RQ exceeds reasonably attainable upper limit.

#### SARA 311/312 Hazards

- Chronic Health Hazard
- Acute Health Hazard

#### SARA 302

- SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### SARA 313

- The following components are subject to reporting levels established by SARA Title III, Section 313:
  - 75-09-2  Methylene chloride  100 %

#### Clean Air Act

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

- 75-09-2  Methylene chloride  100 %
- 75-56-9  Oxirane, 2-methyl-  0.05 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

- 75-56-9  Oxirane, 2-methyl-  0.05 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

- 75-09-2  Methylene chloride  100 %
- 75-56-9  Oxirane, 2-methyl-  0.05 %

#### Clean Water Act

The following Hazardous Substances are listed under the U.S. Clean Water Act, Section 311, Table 116.4A:

- 75-56-9  Oxirane, 2-methyl-  0.05 %

The following Hazardous Chemicals are listed under the U.S. Clean Water Act, Section 311, Table 117.3:

- 75-56-9  Oxirane, 2-methyl-  0.05 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section 307

#### US State Regulations

**Massachusetts Right To Know**

- 75-09-2  Methylene chloride  90 - 100 %
- 75-56-9  Oxirane, 2-methyl-  0 - 0.1 %

**Pennsylvania Right To Know**

- 75-09-2  Methylene chloride  90 - 100 %
- 75-56-9  Oxirane, 2-methyl-  0 - 0.1 %
## Safety Data Sheet
### Methylene chloride Tech

**New Jersey Right To Know**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>75-09-2</td>
<td>Methylene chloride</td>
<td>90 - 100 %</td>
</tr>
</tbody>
</table>

**California Prop 65**

- **WARNING!** This product contains a chemical known to the State of California to cause cancer.
- 75-09-2 Methylene chloride
- 75-56-9 Oxirane, 2-methyl-

#### The components of this product are reported in the following inventories:

<table>
<thead>
<tr>
<th>Inventory</th>
<th>Positive Listing</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Switzerland. New notified substances and declared preparations</td>
<td>y (positive listing)</td>
<td>(The formulation contains substances listed on the Swiss Inventory)</td>
</tr>
<tr>
<td>United States TSCA Inventory</td>
<td>y (positive listing)</td>
<td>(On TSCA Inventory)</td>
</tr>
<tr>
<td>Canadian Domestic Substances List (DSL)</td>
<td>y (positive listing)</td>
<td>(All components of this product are on the Canadian DSL.)</td>
</tr>
<tr>
<td>Australia Inventory of Chemical Substances (AICS)</td>
<td>y (positive listing)</td>
<td>(On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>New Zealand. Inventory of Chemical Substances</td>
<td>y (positive listing)</td>
<td>(On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>Japan. ENCS - Existing and New Chemical Substances Inventory</td>
<td>y (positive listing)</td>
<td>(On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>Japan. ISHL - Inventory of Chemical Substances (METI)</td>
<td>y (positive listing)</td>
<td>(On the inventory, or in compliance with the inventory)</td>
</tr>
<tr>
<td>Korea. Korean Existing Chemicals Inventory (KECI)</td>
<td>y (positive listing)</td>
<td>(On the inventory, or in compliance with the inventory)</td>
</tr>
</tbody>
</table>
SECTION 16. OTHER INFORMATION

Further information

NFPA: Flammability

<table>
<thead>
<tr>
<th>Health</th>
<th>Flammability</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>2</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

HMIS III:

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>FLAMMABILITY</th>
<th>PHYSICAL HAZARD</th>
</tr>
</thead>
<tbody>
<tr>
<td>2*</td>
<td>1</td>
<td>0</td>
</tr>
</tbody>
</table>

0 = not significant, 1 = Slight, 2 = Moderate, 3 = High, 4 = Extreme, * = Chronic

The information accumulated 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 become available subsequently to the date hereof, we do not assume any responsibility for the results of its use. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This MSDS has been prepared by NEXEO™ Solutions EHS Product Safety Department (1-855-429-2661) MSDS@nexeosolutions.com.

Legacy MSDS: R0003736

Material number:
16062162, 743780, 637697, 590261, 554098, 554087, 554340, 554302, 551440, 88414, 56584, 73129, 56747, 104544, 88590, 73128, 104545, 71782, 55824, 89867
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
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<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>CNS</td>
<td>Central Nervous System</td>
</tr>
<tr>
<td>CAS</td>
<td>Chemical Abstract Service</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration</td>
</tr>
<tr>
<td>EC50</td>
<td>Effective Concentration 50%</td>
</tr>
<tr>
<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
</tr>
<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>&gt;</td>
<td>Greater Than or Equal To</td>
</tr>
<tr>
<td>IC50</td>
<td>Inhibition Concentration 50%</td>
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<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
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<tr>
<td>ENCS</td>
<td>Japan, Inventory of Existing and New Chemical Substances</td>
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<tr>
<td>KECI</td>
<td>Korea, Existing Chemical Inventory</td>
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<tr>
<td>&lt;=</td>
<td>Less Than or Equal To</td>
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<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
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<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<tr>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
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<tr>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
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<tr>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
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<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
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<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
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<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
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<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
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<td>TSCA</td>
<td>Toxic Substance Control Act</td>
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<tr>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
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<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
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