SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product information

Product Name: DAC / RPG
Material: 1015402, 1037604, 1037605, 1037606

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

Emergency telephone:

Health:
866.442.9628 (North America)
1.832.813.4984 (International)

Transport:
CHEMTREC 800.424.9300 or 703.527.3887 (int'l)
Asia: CHEMWATCH (+612 9186 1132) China: 0532 8388 9090
EUROPE: BIG +32.14.584545 (phone) or +32.14583516 (telefax)
Mexico CHEMTREC 01-800-681-9531 (24 hours)
South America SOS-Cotec Inside Brazil: 0800.111.767 Outside Brazil: +55.19.3467.1600
Argentina: +(54)-1159839431

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

SECTION 2: Hazards identification

Classification of the substance or mixture
This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Classification:
- Flammable liquids, Category 1
- Acute toxicity, Category 4, Oral
- Acute toxicity, Category 4, Inhalation
- Skin irritation, Category 2
- Eye irritation, Category 2A
- Germ cell mutagenicity, Category 1B
- Carcinogenicity, Category 1A
- Reproductive toxicity, Category 2

SDS Number: 100000068548
Specific target organ toxicity - single exposure, Category 3, Respiratory system, Central nervous system
Specific target organ toxicity - repeated exposure, Category 1, Blood, Eyes
Specific target organ toxicity - repeated exposure, Category 1, Inhalation, Auditory organs
Specific target organ toxicity - repeated exposure, Category 2, Nervous system
Specific target organ toxicity - repeated exposure, Category 2, Inhalation, color vision
Aspiration hazard, Category 1

Labeling

Symbol(s): 

Signal Word: Danger

H302 + H332: Harmful if swallowed or inhaled.
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.
H340: May cause genetic defects.
H350: May cause cancer.
H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
H372: Causes damage to organs (Blood, Eyes) through prolonged or repeated exposure.
H372: Causes damage to organs (Auditory organs) through prolonged or repeated exposure if inhaled.
H373: May cause damage to organs (Nervous system) through prolonged or repeated exposure.
H373: May cause damage to organs (color vision) 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.
P210 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
P233 Keep container tightly closed.
P240 Ground/bond container and receiving equipment.
P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
P242 Use only non-sparking tools.
P243 Take precautionary measures against static discharge.
P260 Do not breathe dust/fume/gas/mist/vapor/spray.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
Response:
P301 + P310  IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P303 + P361 + P353  IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304 + P340 + P312  IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor 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.
P370 + P378  In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

Storage:
P403 + P233  Store in a well-ventilated place. Keep container tightly closed.
P403 + P235  Store in a well-ventilated place. Keep cool.
P405  Store locked up.

Disposal:
P501  Dispose of contents/ container to an approved waste disposal plant.

Carcinogenicity:

IARC
Group 1: Carcinogenic to humans
Benzene 71-43-2
1,3-Butadiene 106-99-0
Group 2B: Possibly carcinogenic to humans
Ethylbenzene 100-41-4
Styrene 100-42-5
Isoprene 78-79-5
Naphthalene 91-20-3
Cumene 98-82-8

NTP
Known to be human carcinogen
Benzene 71-43-2
1,3-Butadiene 106-99-0
Phenanthrene 85-01-8
Reasonably anticipated to be a human carcinogen
Styrene 100-42-5
Isoprene 78-79-5
Naphthalene 91-20-3
Acenaphthene 83-32-9
Fluorene 86-73-7
Phenanthrene 85-01-8
SECTION 3: Composition/information on ingredients

Synonyms:
- DISTILLATION, RESIDUES C5-C11
- Debutanized Aromatic Concentrate
- Aromatic Concentrate
- Aromatic Distillate
- Debutanizer Bottoms
- DAC
- Raw Pyrolysis Gasoline
- RPG
- Slop Oil
- Dripolene
- Pygas

Molecular formula: UVCB

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hydrocarbons, ethylene-manuf.-by-product distn. residues</td>
<td>68921-67-5</td>
<td>100</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>0 - 80</td>
</tr>
<tr>
<td>Dicyclopentadiene</td>
<td>77-73-6</td>
<td>0 - 30</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>0 - 30</td>
</tr>
<tr>
<td>Benzene, dimethyl-</td>
<td>1330-20-7</td>
<td>0 - 10</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>0 - 10</td>
</tr>
<tr>
<td>Cyclopentadiene</td>
<td>542-92-7</td>
<td>0 - 15</td>
</tr>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>0 - 10</td>
</tr>
<tr>
<td>n-Heptane</td>
<td>142-82-5</td>
<td>0 - 5</td>
</tr>
<tr>
<td>n-hexane</td>
<td>110-54-3</td>
<td>0 - 5</td>
</tr>
<tr>
<td>Isopentane</td>
<td>78-78-4</td>
<td>0 - 5</td>
</tr>
<tr>
<td>Isoprene</td>
<td>78-79-5</td>
<td>0 - 5</td>
</tr>
<tr>
<td>1,3-Butadiene</td>
<td>106-99-0</td>
<td>0 - 5</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>91-20-3</td>
<td>1 - 3</td>
</tr>
<tr>
<td>Indene</td>
<td>95-13-6</td>
<td>1 - 2</td>
</tr>
<tr>
<td>n-Butane</td>
<td>106-97-8</td>
<td>0 - 1</td>
</tr>
<tr>
<td>Biphenyl</td>
<td>92-52-4</td>
<td>0 - 1</td>
</tr>
<tr>
<td>Phenanthrene</td>
<td>85-01-8</td>
<td>0 - 1</td>
</tr>
<tr>
<td>Cyclopentane</td>
<td>287-92-3</td>
<td>0 - 1</td>
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<tr>
<td>Cumene</td>
<td>98-82-8</td>
<td>0 - 1</td>
</tr>
<tr>
<td>1,2,4-Trimethylbenzene</td>
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<td>0 - 1</td>
</tr>
<tr>
<td>2-methyl-2-butene</td>
<td>513-35-9</td>
<td>0 - 2</td>
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<tr>
<td>Acenaphthene</td>
<td>83-32-9</td>
<td>0 - 1</td>
</tr>
<tr>
<td>Fluorene</td>
<td>86-73-7</td>
<td>0 - 1</td>
</tr>
</tbody>
</table>

SECTION 4: First aid measures

General advice: Move out of dangerous area. Show this material safety data sheet to the doctor in attendance. Material may produce a serious, potentially fatal pneumonia if swallowed or vomited.

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. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician. Take victim immediately to hospital.

SECTION 5: Firefighting measures

Flash point: -11 °C (12 °F)
   Method: Tag closed cup

Autoignition temperature: 348 °C (658 °F)

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

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.

Special protective equipment for fire-fighters: Wear self-contained breathing apparatus for firefighting 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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Hazardous decomposition products: Carbon Dioxide. Carbon monoxide.

SECTION 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.
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).

SECTION 7: Handling and storage

Handling

Advice on safe handling: Avoid formation of aerosol. 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). Use only explosion-proof equipment. Keep away from open flames, hot surfaces and sources of ignition.

Storage

Requirements for storage areas and containers: 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.

SECTION 8: Exposure controls/personal protection

Ingredients with workplace control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>Basis</th>
<th>Value</th>
<th>Control parameters</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.5 ppm,</td>
<td>leukemia, BEI, A1, Skin,</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>STEL</td>
<td>2.5 ppm,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>1 ppm,</td>
<td>leukemia, BEI, A1, Skin,</td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>CEIL</td>
<td>5 ppm,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z-2</td>
<td>Peak</td>
<td>50 ppm, (a)</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA 29 CFR 1910.1028(c)</td>
<td>TWA</td>
<td>1 ppm,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA CARC</td>
<td>PEL</td>
<td>1 ppm,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA CARC</td>
<td>STEL</td>
<td>5 ppm,</td>
<td></td>
</tr>
<tr>
<td>Dicyclopentadiene</td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>5 ppm, 30 mg/m3</td>
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</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.5 ppm,</td>
<td>URT irr, LRT irr, eye irr,</td>
</tr>
<tr>
<td></td>
<td>ACGIH</td>
<td>STEL</td>
<td>1 ppm,</td>
<td></td>
</tr>
<tr>
<td>Toluene</td>
<td>ACGIH</td>
<td>TWA</td>
<td>20 ppm,</td>
<td>visual impair, female repro,</td>
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<td></td>
<td>OSHA Z-2</td>
<td>TWA</td>
<td>200 ppm,</td>
<td>pregnancy loss, BEI A4,</td>
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<td>OSHA Z-2</td>
<td>CEIL</td>
<td>300 ppm,</td>
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</tr>
<tr>
<td></td>
<td>OSHA Z-2</td>
<td>Peak</td>
<td>500 ppm,</td>
<td></td>
</tr>
<tr>
<td></td>
<td>OSHA Z-1-A</td>
<td>TWA</td>
<td>100 ppm, 375 mg/m3</td>
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</tr>
</tbody>
</table>

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## DAC / RPG

### Version 2.1

<table>
<thead>
<tr>
<th>Substance</th>
<th>OSHA Z</th>
<th>STEL</th>
<th>TWA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Cyclopentadiene</strong></td>
<td>Z-1</td>
<td>STEL</td>
<td>150 ppm, 560 mg/m³</td>
</tr>
<tr>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>75 ppm, 200 mg/m³</td>
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</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>0.5 ppm, URT irr, LRT irr, eye irr,</td>
<td></td>
</tr>
<tr>
<td>Isopentane</td>
<td>Z-1</td>
<td>STEL</td>
<td>1 ppm,</td>
</tr>
<tr>
<td>Benzene, dimethyl-</td>
<td>Z-1</td>
<td>TWA</td>
<td>100 ppm, 435 mg/m³</td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>150 ppm, 555 mg/m³</td>
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<tr>
<td>Ethylbenzene</td>
<td>Z-1</td>
<td>TWA</td>
<td>100 ppm, 435 mg/m³</td>
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<tr>
<td>ACGIH</td>
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<td>125 ppm, 545 mg/m³</td>
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<td>Isopentane</td>
<td>Z-2</td>
<td>TWA</td>
<td>20 ppm, 245 mg/m³</td>
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<tr>
<td>1,3-Butadiene</td>
<td>Z-1</td>
<td>TWA</td>
<td>2 ppm, cancer, A2,</td>
</tr>
<tr>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>1 ppm,</td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>5 ppm,</td>
<td></td>
</tr>
<tr>
<td>Methylocyclopentane</td>
<td>CARC</td>
<td>STEL</td>
<td>5 ppm,</td>
</tr>
<tr>
<td>OSHA Z-29 CFR 1910.1051(c)</td>
<td>TWA</td>
<td>1 ppm,</td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>500 ppm, 2000 mg/m³</td>
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</tr>
<tr>
<td>Acrylonitrile</td>
<td></td>
<td>500 ppm, 1600 mg/m³</td>
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</tr>
<tr>
<td>n-Heptane</td>
<td>Z-1</td>
<td>TWA</td>
<td>450 ppm, 2400 mg/m³</td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>500 ppm, 2400 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Naphthalene</td>
<td>TWA</td>
<td>10 ppm, hemolytic anemia, URT irr, cataract, A3, Skin,</td>
<td></td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>15 ppm, hemato logical eff, URT irr, eye irr, eye dam, (b), A4, Skin,</td>
<td></td>
</tr>
<tr>
<td>Indene</td>
<td></td>
<td>5 ppm, liver dam,</td>
<td></td>
</tr>
<tr>
<td>n-Butane</td>
<td>Z-1</td>
<td>TWA</td>
<td>10 ppm, 45 mg/m³</td>
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<tr>
<td>ACGIH</td>
<td></td>
<td>10 ppm, 50 mg/m³</td>
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</tr>
<tr>
<td>Biphenyl</td>
<td></td>
<td>0.2 ppm,</td>
<td></td>
</tr>
<tr>
<td>Phenanthrene</td>
<td>Z-1</td>
<td>TWA</td>
<td>0.2 mg/m³</td>
</tr>
<tr>
<td>OSHA Z-1</td>
<td>TWA</td>
<td>0.2 mg/m³</td>
<td></td>
</tr>
<tr>
<td>Cyclopentane</td>
<td>ACGIH</td>
<td>TWA</td>
<td>600 ppm,</td>
</tr>
<tr>
<td>ACGIH</td>
<td></td>
<td>600 ppm, 1720 mg/m³</td>
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</tr>
<tr>
<td>Cumene</td>
<td>ACGIH</td>
<td>TWA</td>
<td>50 ppm,</td>
</tr>
<tr>
<td>1-Methylnaphthalene</td>
<td>ACGIH</td>
<td>TWA</td>
<td>0.5 ppm, LRT irr, lung dam, A4, Skin,</td>
</tr>
</tbody>
</table>

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Revision Date 2019-05-20
### Hazardous components without workplace control parameters

**Immediately Dangerous to Life or Health Concentrations (IDLH)**

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>Immediately Dangerous to Life or Health Concentration Value 500 parts per million</td>
<td>1995-03-01</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Immediately Dangerous to Life or Health Concentration Value 500 parts per million</td>
<td>1995-03-01</td>
</tr>
<tr>
<td>Cyclopentadiene</td>
<td>542-92-7</td>
<td>Immediately Dangerous to Life or Health Concentration Value 750 parts per million</td>
<td>1995-03-01</td>
</tr>
<tr>
<td>Benzene, dimethyl-</td>
<td>1330-20-7</td>
<td>Immediately Dangerous to Life or Health Concentration Value 300 parts per million</td>
<td>1995-03-01</td>
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<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>Immediately Dangerous to Life or Health Concentration Value 800 parts per million</td>
<td>1995-03-01</td>
</tr>
<tr>
<td>Styrene</td>
<td>100-42-5</td>
<td>Immediately Dangerous to Life or Health Concentration Value 700 parts per million</td>
<td>1995-03-01</td>
</tr>
<tr>
<td>1,3-Butadiene</td>
<td>106-99-0</td>
<td>Immediately Dangerous to Life or Health Concentration Value 2000 parts per million</td>
<td>1995-03-01</td>
</tr>
<tr>
<td>n-hexane</td>
<td>110-54-3</td>
<td>Immediately Dangerous to Life or Health Concentration Value 1100 parts per million</td>
<td>1995-03-01</td>
</tr>
<tr>
<td>n-Heptane</td>
<td>142-82-5</td>
<td>Immediately Dangerous to Life or Health Concentration Value 750 parts per million</td>
<td>1995-03-01</td>
</tr>
</tbody>
</table>
### Biological exposure indices US

| Substance name | CAS-No. | Control parameters | Sampling time | Update  
|----------------|---------|--------------------|---------------|--------
| Benzene        | 71-43-2 | S-Phenylmercapturic acid: 25 µg/g creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | 2010-03-01
|                |         | 1,4-Muconic acid: 500 µg/g creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | 2010-03-01
| Toluene        | 108-88-3| Toluene: 0.02 mg/l (In blood) | Prior to last shift of workweek | 2010-03-01
|                |         | Toluene: 0.03 mg/l (Urine) | End of shift (As soon as possible after exposure ceases) | 2010-03-01
|                |         | o-Cresol: 0.3 mg/g Creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | 2010-03-01
| Benzene, dimethyl- | 1330-20-7 | Methylhippuric acids: 1.5 g/g creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | 2013-03-01
| Ethylbenzene   | 100-41-4 | Sum of mandelic acid and phenyl glyoxylic acid: 0.15 g/g creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | 2016-03-01
| Styrene        | 100-42-5 | Mandelic acid plus phenylglyoxylic acid: 400 mg/g Creatinine (Urine) | End of shift (As soon as possible after exposure ceases) | 2016-03-01
|                |         | Styrene: 40 µg/l (Urine) | End of shift (As soon as possible after exposure ceases) | 2016-03-01
| n-hexane       | 110-54-3 | 2,5-Hexanedione: 0.4 mg/l (Urine) | End of shift at end of workweek | 2007-01-01
| 1,3-Butadiene  | 106-99-0 | 1,2 Dihydroxy-4-(N-acetylcysteinyl)-butane: 2.5 mg/l (Urine) | End of shift (As soon as possible after exposure ceases) | 2010-03-01
|                |         | Mixture of N-1 and N-2(2-hydroxybutenyl)valine: 2.5 picomoles per gram Hemoglobin (Hemoglobin (Hb) adducts in blood) | Not critical | 2010-03-01

### Engineering measures

Adequate ventilation to control airborne concentrations below the exposure guidelines/limits. Consider the potential hazards of this material (see Section 2), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.
Personal protective equipment

Respiratory protection: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Organic Vapors. Full-Face Air-Purifying Respirator for Organic Vapors, Dusts and Mists. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known, or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

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

Skin and body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Flame retardant antistatic protective clothing. Workers should wear antistatic footwear.

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

Information on basic physical and chemical properties

Appearance

Physical state: Liquid
Color: Amber

Safety data

Flash point: -11 °C (12 °F)
Method: Tag closed cup

Lower explosion limit: 1.3 % (V)
Upper explosion limit: 7.5 % (V)
Oxidizing properties: No

Autoignition temperature: 348 °C (658 °F)
Molecular formula: UVCB
Molecular weight: Not applicable
pH: Not applicable
Pour point: No data available
Freezing point: -62 °C (-80 °F)
Boiling point/boiling range: 32 - 248.9 °C (90 - 480.0 °F)
Vapor pressure: 11.00 PSI at 38 °C (100 °F)
Relative density: 0.825
Water solubility: Soluble in hydrocarbon solvents; insoluble in water.
Partition coefficient: n-octanol/water: No data available
Viscosity, kinematic: 0.9 cSt at 40 °C (104 °F)
Relative vapor density: 2.8 (Air = 1.0)
Evaporation rate: 3.9
Percent volatile: 99 %

SECTION 10: Stability and reactivity

Chemical stability: This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

Possibility of hazardous reactions

Hazardous reactions: Hazardous polymerization does not occur.
Further information: No decomposition if stored and applied as directed.
Hazardous reactions: Vapors may form explosive mixture with air.

Conditions to avoid: Heat, flames and sparks.
Materials to avoid: May react with oxygen and strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.
**Hazardous decomposition products**: Carbon Dioxide, Carbon monoxide

**Other data**: No decomposition if stored and applied as directed.

**SECTION 11: Toxicological information**

**DAC / RPG**

**Acute oral toxicity**: LD50 Oral: 495.8 mg/kg
Species: Rat
Method: Acute toxicity estimate

**DAC / RPG**

**Acute inhalation toxicity**: LC50: 1.49 mg/l
Exposure time: 4 h
Species: Rat
Test atmosphere: dust/mist
Method: Acute toxicity estimate

**DAC / RPG**

**Acute dermal toxicity**: LD50 Dermal: > 2,000 mg/kg
Species: Rabbit
Method: Acute toxicity estimate

**DAC / RPG**

**Skin irritation**: Irritating to skin.

**DAC / RPG**

**Eye irritation**: Eye irritation
May irritate eyes.

**DAC / RPG**

**Sensitization**: No adverse effects expected. Estimated based on individual component values.

**DAC / RPG**

**Repeated dose toxicity**: This information is not available.

**Genotoxicity in vitro**

**Benzene**: Test Type: Ames test
Result: negative
<table>
<thead>
<tr>
<th>Substance</th>
<th>Test Type</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dicyclopentadiene</td>
<td>Cytogenetic assay</td>
<td>positive</td>
</tr>
<tr>
<td></td>
<td>Mouse lymphoma assay</td>
<td>positive</td>
</tr>
<tr>
<td></td>
<td>Sister Chromatid Exchange Assay</td>
<td>negative</td>
</tr>
<tr>
<td>Toluene</td>
<td>Ames test</td>
<td>negative</td>
</tr>
<tr>
<td></td>
<td>Chromosome aberration test in vitro</td>
<td>negative</td>
</tr>
<tr>
<td>Benzene, dimethyl-</td>
<td>Ames test</td>
<td>negative</td>
</tr>
<tr>
<td></td>
<td>Mouse lymphoma assay</td>
<td>negative</td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>Ames test</td>
<td>negative</td>
</tr>
<tr>
<td></td>
<td>Unscheduled DNA synthesis assay</td>
<td>negative</td>
</tr>
<tr>
<td>Styrene</td>
<td>Ames test</td>
<td>negative</td>
</tr>
<tr>
<td></td>
<td>Cytogenetic assay</td>
<td>positive</td>
</tr>
<tr>
<td></td>
<td>Reverse mutation assay</td>
<td>negative</td>
</tr>
<tr>
<td></td>
<td>Mouse lymphoma assay</td>
<td>negative</td>
</tr>
<tr>
<td></td>
<td>Sister Chromatid Exchange Assay</td>
<td>positive</td>
</tr>
<tr>
<td></td>
<td>Mammalian cell gene mutation assay</td>
<td>negative</td>
</tr>
<tr>
<td>n-Heptane</td>
<td>Ames test</td>
<td></td>
</tr>
</tbody>
</table>

Method: Mutagenicity (Escherichia coli - reverse mutation assay)
Result: negative

Test Type: Mammalian cell gene mutation assay
Method: OECD Guideline 476
Result: negative

Test Type: Chromosome aberration test in vitro
Method: OECD Guideline 473
Result: negative

Test Type: Mitotic recombination
Result: negative

**n-hexane**

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Mouse lymphoma assay
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: negative

Test Type: Mouse lymphoma assay
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 476
Result: Positive results were obtained in some in vitro tests.

**Isopentane**

Test Type: Ames test
Concentration: 1, 2, 5, 8, 10%
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Test Type: Ames test
Concentration: 1, 2, 5, 8, 10, 25, 50%
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative
Remarks: Information given is based on data obtained from similar substances.

Test Type: Chromosome aberration test in vitro
Metabolic activation: with and without metabolic activation
Method: Mutagenicity (in vitro mammalian cytogenetic test)
Result: negative
Remarks: Information given is based on data obtained from similar substances.

**Isoprene**

Test Type: Ames test
Result: negative

Test Type: Sister Chromatid Exchange Assay
Result: positive

**1,3-Butadiene**

Test Type: Ames test
Metabolic activation: with and without metabolic activation
Result: Positive results were obtained in some in vitro tests.
Test Type: Chromosome aberration test in vitro
Test system: Chinese hamster cells
Method: OECD Guideline 473
Result: positive

Naphthalene
Test Type: Ames test
Result: negative

Test Type: Sister Chromatid Exchange Assay
Result: negative

Test Type: Unscheduled DNA synthesis assay
Result: negative

n-Butane
Test Type: Ames test
Result: negative

Cyclopentane
Test Type: Modified Ames test
Concentration: 1250 microgram/plate
Metabolic activation: with and without metabolic activation
Method: see user defined free text
Result: negative
Remarks: In vitro tests did not show mutagenic effects

Test Type: Mouse lymphoma assay
Concentration: 200 microgram/milliliter
Metabolic activation: with and without metabolic activation
Result: negative
Remarks: In vitro tests did not show mutagenic effects

Cumene
Test Type: Ames test
Result: negative

Test Type: Cytogenetic assay
Result: negative

Test Type: HGPRT assay
Result: negative

Test Type: Unscheduled DNA synthesis assay
Result: negative

2-methyl-2-butene
Test Type: Ames test
Metabolic activation: with and without metabolic activation
Method: OECD Test Guideline 471
Result: negative

Method: OECD Test Guideline 480
Result: negative

Genotoxicity in vivo
Benzene
Test Type: Mouse micronucleus assay
Result: positive

Toluene
Test Type: Cytogenetic assay
Result: negative
<table>
<thead>
<tr>
<th>Substance</th>
<th>Test Type</th>
<th>Result</th>
<th>Additional Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Benzene, dimethyl-</td>
<td>Mouse micronucleus assay</td>
<td>negative</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>Mouse micronucleus assay</td>
<td>negative</td>
<td>Species: Mouse</td>
</tr>
<tr>
<td>Styrene</td>
<td>Mouse micronucleus assay</td>
<td>negative</td>
<td>Remarks: No significant adverse effects were reported</td>
</tr>
<tr>
<td>n-hexane</td>
<td>Dominant lethal assay</td>
<td>negative</td>
<td>Species: Mouse</td>
</tr>
<tr>
<td></td>
<td>Cytogenetic assay</td>
<td>negative</td>
<td>Species: Rat, Dose: 900, 3000, 9000 ppm</td>
</tr>
<tr>
<td>Isoprene</td>
<td>Micronucleus test</td>
<td>negative</td>
<td></td>
</tr>
<tr>
<td>1,3-Butadiene</td>
<td>Mouse micronucleus assay</td>
<td>positive</td>
<td>Species: mice, Route of Application: inhalation (gas), Exposure time: 6 h per day for 5 days, Dose: 50, 200, 500, 1300 ppm, Method: OECD Test Guideline 474, Result: positive</td>
</tr>
<tr>
<td></td>
<td>Dominant lethal assay</td>
<td>positive</td>
<td>Species: mice, Method: OECD Test Guideline 478, Result: Positive results were obtained in some in vivo tests.</td>
</tr>
<tr>
<td>Naphthalene</td>
<td>Mouse micronucleus assay</td>
<td>negative</td>
<td></td>
</tr>
<tr>
<td>Cyclopentane</td>
<td>Micronucleus test</td>
<td>negative</td>
<td>Species: Mouse, Dose: 28.7 mg/l, Result: negative</td>
</tr>
<tr>
<td>Cumene</td>
<td>Mouse micronucleus assay</td>
<td>negative</td>
<td></td>
</tr>
<tr>
<td>2-methyl-2-butene</td>
<td>Mouse micronucleus assay</td>
<td>negative</td>
<td></td>
</tr>
</tbody>
</table>
Species: Rat  
Cell type: Bone marrow  
Route of Application: Inhalation  
Exposure time: 6 h/d 2d  
Method: OECD Test Guideline 474  
Result: positive

DAC / RPG  
Carcinogenicity: Remarks: Suspect cancer hazard

DAC / RPG  
Reproductive toxicity: This information is not available.

DAC / RPG  
Developmental Toxicity: This information is not available.

DAC / RPG  
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.

Toxicology Assessment

DAC / RPG  
CMR effects: Carcinogenicity:  
May cause cancer.  
Mutagenicity:  
May cause genetic defects.  
Teratogenicity:  
Suspected of damaging the unborn child.  
Reproductive toxicity:  
Suspected of damaging fertility.

DAC / RPG  
Further information: 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 effects

Toxicity to fish: No data available

Toxicity to daphnia and other aquatic invertebrates: No data available

Toxicity to algae: No data available
Toxicity to bacteria
Styrene : EC10: 0.28 mg/l
Exposure time: 96 h
Growth rate
Species: Skeletonema costatum (Marine Algae)
Test substance: yes

Toxicity to fish (Chronic toxicity)
n-Heptane : NOELR: 1.284 mg/l
Exposure time: 28 d
Species: Oncorhynchus mykiss (rainbow trout)
Method: QSAR modeled data

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)
Ethylbenzene : NOEC: 1 mg/l
Exposure time: 7 d
Species: Daphnia pulex (Water flea)
semi-static test
Analytical monitoring: yes
Styrene : NOEC: 1.01 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
semi-static test
Test substance: yes
Method: OECD Test Guideline 211

Biodegradability : This material is volatile and is expected to partition to air.

Elimination information (persistence and degradability)
Bioaccumulation : This material is not expected to bioaccumulate.

Results of PBT assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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

Ecotoxicology Assessment
Short-term (acute) aquatic hazard : Very toxic to aquatic life.
Long-term (chronic) aquatic hazard : Very toxic to aquatic life with long lasting effects.

SECTION 13: Disposal considerations
The information in this SDS pertains only to the product as shipped.

SDS Number:100000068548 18/24
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 courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Send to a licensed waste management company.

Contaminated packaging: Empty remaining contents. Dispose of as unused product. Do not re-use empty containers. Do not burn, or use a cutting torch on, the empty drum.

SECTION 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 SDS and the bill of lading.

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)
UN1268, PETROLEUM DISTILLATES, N.O.S., 3, I

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
UN1268, PETROLEUM DISTILLATES, N.O.S., 3, I, (-11 °C), MARINE POLLUTANT, (HYDROCARBONS, ETHYLENE-MANUF.-BY-PRODUCT DISTN. RESIDUES)

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
UN1268, PETROLEUM DISTILLATES, N.O.S., 3, I

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
UN1268, PETROLEUM PRODUCTS, N.O.S., 3, I, (D/E), ENVIRONMENTALLY HAZARDOUS, (HYDROCARBONS, ETHYLENE-MANUF.-BY-PRODUCT DISTN. RESIDUES)

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
UN1268, PETROLEUM PRODUCTS, N.O.S., 3, I, ENVIRONMENTALLY HAZARDOUS, (HYDROCARBONS, ETHYLENE-MANUF.-BY-PRODUCT DISTN. RESIDUES)

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
UN1268, PETROLEUM PRODUCTS, N.O.S., 3, I, ENVIRONMENTALLY HAZARDOUS, (HYDROCARBONS, ETHYLENE-MANUF.-BY-PRODUCT DISTN. RESIDUES)
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15: Regulatory information

National legislation

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)
Acute toxicity (any route of exposure)
Skin corrosion or irritation
Serious eye damage or eye irritation
Germ cell mutagenicity
Carcinogenicity
Reproductive toxicity
Specific target organ toxicity (single or repeated exposure)
Aspiration hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

CERCLA Reportable Quantity : 12 lbs
Benzene

SARA 302 Reportable Quantity : This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity : This material does not contain any components with a section 302 EHS TPQ.

SARA 304 Reportable Quantity : This material does not contain any components with a section 304 EHS RQ.

SARA 313 Components : The following components are subject to reporting levels established by SARA Title III, Section 313:

Benzene - 71-43-2
Dicyclopentadiene - 77-73-6
Toluene - 108-88-3
Benzene, dimethyl- - 1330-20-7
Ethylbenzene - 100-41-4
Styrene - 100-42-5
n-hexane - 110-54-3
Isoprene - 78-79-5
1,3-Butadiene - 106-99-0
Naphthalene - 91-20-3
Biphenyl - 92-52-4
Phenanthroline - 85-01-8
Cumene - 98-82-8
1,2,4-Trimethylbenzene - 95-63-6
Clean Air Act

Ozone-Depletion Potential: 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).

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

- Benzene - 71-43-2
- Toluene - 108-88-3
- Benzene, dimethyl- - 1330-20-7
- Ethylbenzene - 100-41-4
- Styrene - 100-42-5
- n-hexane - 110-54-3
- 1,3-Butadiene - 106-99-0
- Naphthalene - 91-20-3
- Acenaphthene - 83-32-9
- Biphenyl - 92-52-4
- Fluorene - 86-73-7
- Phenanthrene - 85-01-8
- Cumene - 98-82-8

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):

- 1,3-Pentadiene - 504-60-9
- Isopentane - 78-78-4
- Isoprene - 78-79-5
- 1,3-Butadiene - 106-99-0
- n-Butane - 106-97-8
- cis-2-Pentene - 627-20-3
- trans-2-Pentene - 646-04-8
- 3-Methyl-1-Butene - 563-45-1
- 2-methyl-1-butene - 563-46-2

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):

- Benzene - 71-43-2
- Toluene - 108-88-3
- Benzene, dimethyl- - 1330-20-7
- Ethylbenzene - 100-41-4
- Styrene - 100-42-5
- Isopentane - 78-78-4
- Isoprene - 78-79-5
- 1,3-Butadiene - 106-99-0
- Biphenyl - 92-52-4
- Cumene - 98-82-8
- 1-Methylnaphthalene - 90-12-0
- 2-Methylnaphthalene - 91-57-6
- 1-ethylnaphthalene - 1127-76-0
US State Regulations

Pennsylvania Right To Know:
- Benzene - 71-43-2
- Dicyclopentadiene - 77-73-6
- Toluene - 108-88-3
- Cyclopentadiene - 542-92-7
- Benzene, dimethyl - 1330-20-7
- Ethylbenzene - 100-41-4
- Styrene - 100-42-5
- n-Heptane - 142-82-5
- n-hexane - 110-54-3
- Isopentane - 78-78-4
- Isoprene - 78-79-5
- 1,3-Butadiene - 106-99-0
- Naphthalene - 91-20-3
- Indene - 95-13-6
- n-Butane - 106-97-8
- Biphenyl - 92-52-4
- Phenanthrene - 85-01-8
- Cyclopentane - 287-92-3
- Cumene - 98-82-8
- 1,2,4-Trimethylbenzene - 95-63-6

California Prop. 65 Components:
- WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov/food.
  - Benzene 71-43-2

- WARNING: This product can expose you to chemicals including [listed below], which is [are] known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.
  - Benzene 71-43-2

Notification status:
- Europe REACH: Not in compliance with the inventory
- Switzerland CH INV: On the inventory, or in compliance with the inventory
- United States of America (USA) 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
SECTION 16: Other information

NFPA Classification: Health Hazard: 2
Fire Hazard: 4
Reactivity Hazard: 0

Further information
Legacy SDS Number: PE0097

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

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

The information provided in this Safety Data Sheet 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 guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered 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 materials or in any process, unless specified in the text.

Key or legend to abbreviations and acronyms used in the safety data sheet

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACGIH</td>
<td>American Conference of Government Industrial Hygienists</td>
</tr>
<tr>
<td>LD50</td>
<td>Lethal Dose 50%</td>
</tr>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
</tr>
<tr>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
</tr>
<tr>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
<tr>
<td>NDSL</td>
<td>Canada, Non-Domestic Substances List</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
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<tr>
<td>CNS</td>
<td>Central Nervous System</td>
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<td>NTP</td>
<td>National Toxicology Program</td>
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<td>CAS</td>
<td>Chemical Abstract Service</td>
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<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
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<td>EC50</td>
<td>Effective Concentration</td>
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<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
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<td>EC50</td>
<td>Effective Concentration 50%</td>
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<td>NOEC</td>
<td>No Observed Effect Concentration</td>
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<td>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</td>
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<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
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<td>EOSCA</td>
<td>European Oilfield Specialty Chemicals Association</td>
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<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
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<tr>
<td>EINECS</td>
<td>European Inventory of Existing Chemical Substances</td>
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<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
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<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
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<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
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<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
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<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
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<tr>
<td>Symbol</td>
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<td>&gt;=</td>
<td>Greater Than or Equal To</td>
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<td>IC50</td>
<td>Inhibition Concentration 50%</td>
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<td>IARC</td>
<td>International Agency for Research on Cancer</td>
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<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>
</tr>
<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>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
</tr>
</tbody>
</table>