SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product name: STARFIRE Mineral Spirits NE

Recommended use of the chemical and restrictions on use

Recommended use: Solvent.

Manufacturer or supplier’s details

Company: Coolants Plus Inc.
2570 Van Hook Ave.
Hamilton OH, 45015

Emergency telephone number:
Transport North America: CHEMTREC (1-800-424-9300)

Additional Information:

- Responsible Party: Product Safety Group
- SDS Requests: 1-888-258-8723

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids: Category 3
Skin irritation: Category 2
Eye irritation: Category 2A
Germ cell mutagenicity: Category 1B
Carcinogenicity: Category 1B
Specific target organ toxicity - single exposure: Category 3 (Central nervous system)
Aspiration hazard: Category 1

GHS Label element

Hazard pictograms:

- Flame
- Person
- Exclamation

Signal word: Danger

Hazard statements:
H226 Flammable liquid and vapour.
H304 May be fatal if swallowed and enters airways.
H336 May cause drowsiness or dizziness.
H315+H319 Causes skin and serious eye irritation
H340+H350 May cause genetic defects or cancer

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.
P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264 Wash skin thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/ eye protection/ face protection.
P281 Use personal protective equipment as required.

Response:
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/ physician.
P303 + P361 + P353 IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
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.
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

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.

Other hazards
None known.
SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-41-3 / 64742-</td>
<td>Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated</td>
<td>90 - 100</td>
</tr>
<tr>
<td>88-7 / 64742-48-9</td>
<td>Naphtha, Heavy</td>
<td></td>
</tr>
<tr>
<td>25551-13-7</td>
<td>**Benzene, trimethyl-</td>
<td>5 - 10</td>
</tr>
<tr>
<td>95-63-6</td>
<td>**1,2,4-trimethylbenzene</td>
<td>5 - 10</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>**Mixed Xylenes</td>
<td>5 - 10</td>
</tr>
<tr>
<td>111-84-2</td>
<td>**Nonane</td>
<td>5 - 10</td>
</tr>
<tr>
<td>108-88-3</td>
<td>**Toluene</td>
<td>1 - 5</td>
</tr>
<tr>
<td>98-82-8</td>
<td>**Cumene</td>
<td>1 - 5</td>
</tr>
<tr>
<td>100-41-4</td>
<td>**Ethylbenzene</td>
<td>1 - 5</td>
</tr>
<tr>
<td>110-54-3</td>
<td>**n-Hexane</td>
<td>1 - 5</td>
</tr>
<tr>
<td>71-43-2</td>
<td>**Benzene</td>
<td>0.1 - 1</td>
</tr>
<tr>
<td>91-20-3</td>
<td>**Naphthalene</td>
<td>0.1 - 1</td>
</tr>
</tbody>
</table>

Any Concentration shown as a range is due to batch variation.

Special Notes: ** Other substances in the product which may present a health or environmental hazard.

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 : If unconscious place in recovery position and seek medical advice.
Remove to fresh air. Give artificial respiration if not breathing.
Keep victim warm and at rest. Call a physician.

In case of skin contact : If skin irritation persists, call a physician.
If on skin, rinse well with water.
Wash contaminated clothing before reuse.
Thoroughly clean shoes before reuse.

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.

### Most important symptoms and effects, both acute and delayed
- Irritation
- Dermatitis
- Headache
- Dizziness
- Unconsciousness
- Aspiration may cause pulmonary oedema and pneumonitis.
- Fatigue
- Nausea

### Protection of first-aiders
- First Aid responders should pay attention to self-protection and use the recommended protective clothing

### Notes to physician
- In case of shortness of breath, give oxygen. Treat symptomatically

---

**SECTION 5. FIREFIGHTING MEASURES**

**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.

**Hazardous combustion products**
- Carbon oxides
- Fume
- Smoke
- Unburned hydrocarbons

**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. For safety reasons in case of fire, cans should be stored separately in closed containments.

**Special protective equipment for firefighters**
- Wear full firefighting turn-out gear (full Bunker gear), and respiratory protection (SCBA).

---

**SECTION 6. ACCIDENTAL RELEASE MEASURES**
Personal precautions, protective equipment and emergency procedures:
- Use personal protective equipment.
- Ensure adequate ventilation.
- Remove all sources of ignition.
- Evacuate personnel to safe areas.
- Beware of vapours accumulating to form explosive concentrations. Vapours 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 and materials for containment and 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

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

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.
- 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.

Conditions for safe storage:
- 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

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>
</table>

SDS Number: 100000002569  5 / 20  Mineral Spirits NE
<table>
<thead>
<tr>
<th>Code</th>
<th>Substance Description</th>
<th>TWA</th>
<th>Standard/OSHA Definition</th>
</tr>
</thead>
<tbody>
<tr>
<td>8052-41-3 / 64742-88-7 / 64742-48-9</td>
<td>Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydro-treated Naphtha, Heavy</td>
<td>TWA 100 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>25551-13-7</td>
<td>**Benzene, trimethyl-</td>
<td>TWA 25 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>95-63-6</td>
<td>**1,2,4-trimethylbenzene</td>
<td>TWA 25 ppm</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>**Mixed Xylenes</td>
<td>TWA 100 ppm</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STel</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STel</td>
<td>ACGIH</td>
</tr>
<tr>
<td>111-84-2</td>
<td>**Nonane</td>
<td>TWA 200 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>108-88-3</td>
<td>**Toluene</td>
<td>TWA 20 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>ST</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA Z-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Peak</td>
<td>OSHA Z-2</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA P0</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>STel</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>98-82-8</td>
<td>**Cumene</td>
<td>TWA 50 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA P0</td>
</tr>
<tr>
<td>100-41-4</td>
<td>**Ethylbenzene</td>
<td>TWA 20 ppm</td>
<td>ACGIH</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>NIOSH REL</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA Z-1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>TWA</td>
<td>OSHA P0</td>
</tr>
</tbody>
</table>

**Note:** The values are measured at various time-weighted averages (TWA), short-term exposure limits (STEL), and ceiling levels (CEIL). The standards are set by ACGIH, NIOSH, and OSHA, varying by the specific application and 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><strong>Mixed Xylenes</strong></td>
<td>1330-20-7</td>
<td>Methylishippuric acids</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>1.5 g/g creatinine</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td><strong>Toluene</strong></td>
<td>108-88-3</td>
<td>Toluene</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>0.02 mg/l</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Urine</td>
<td>Prior to last shift of work-week</td>
<td>0.03 mg/l</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td>Compound</td>
<td>CAS Number</td>
<td>Test Method</td>
<td>Sample Type</td>
<td>Threshold Value</td>
<td>Provider</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>------------</td>
<td>-------------</td>
<td>-------------</td>
<td>----------------</td>
<td>----------</td>
<td></td>
</tr>
<tr>
<td>o-Cresol</td>
<td></td>
<td></td>
<td>Urine</td>
<td>0.3 mg/g Creatinine</td>
<td>ACGIH BEI</td>
<td></td>
</tr>
<tr>
<td>Ethylbenzene</td>
<td>100-41-4</td>
<td>Sum of mandelic acid and phenyl glyoxylic acid</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>0.15 g/g creatinine</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td>n-Hexane</td>
<td>110-54-3</td>
<td>2,5-Hexanedione</td>
<td>Urine</td>
<td>End of shift at end of workweek</td>
<td>0.4 mg/l</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td>Benzene</td>
<td>71-43-2</td>
<td>Sum of mandelic acid and phenyl glyoxylic acid</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>25 µg/g creatinine</td>
<td>ACGIH BEI</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1,1-Muconic acid</td>
<td>Urine</td>
<td>End of shift (As soon as possible after exposure ceases)</td>
<td>500 µg/g creatinine</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><strong>Appearance</strong></td>
<td>liquid</td>
</tr>
<tr>
<td><strong>Colour</strong></td>
<td>clear, transparent</td>
</tr>
<tr>
<td><strong>Odour</strong></td>
<td>Petroleum distillates, solvent-like, Hydrocarbon-like</td>
</tr>
<tr>
<td><strong>Odour Threshold</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>pH</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Freezing Point (Freezing Point)</strong></td>
<td>-76 °C (-105 °F)</td>
</tr>
<tr>
<td><strong>Boiling Point (Boiling point/boiling range)</strong></td>
<td>157 - 218 °C (315 - 424 °F)</td>
</tr>
<tr>
<td><strong>Flash point</strong></td>
<td>37.78 - 44 °C (100.00 - 111 °F) Method: Tag closed cup</td>
</tr>
<tr>
<td><strong>Evaporation rate</strong></td>
<td>0.14 - 0.2 (Butyl Acetate = 1)</td>
</tr>
<tr>
<td><strong>Flammability (solid, gas)</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Upper explosion limit</strong></td>
<td>5.6 - 7.0 %(V)</td>
</tr>
<tr>
<td><strong>Lower explosion limit</strong></td>
<td>0.5 - 1.1 %(V)</td>
</tr>
<tr>
<td><strong>Vapour pressure</strong></td>
<td>0.22 - 0.62 mmHg @ 20 °C (68 °F)</td>
</tr>
<tr>
<td><strong>Relative vapour density</strong></td>
<td>4.9</td>
</tr>
<tr>
<td><strong>Relative density</strong></td>
<td>0.77 - 0.80 @ 15.5 °C (59.9 °F) Reference substance: (water = 1)</td>
</tr>
<tr>
<td><strong>Density</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Solubility(ies)</strong></td>
<td>Water solubility: 0.05 g/l Negligible</td>
</tr>
<tr>
<td><strong>Solubility in other solvents</strong></td>
<td>No data available</td>
</tr>
<tr>
<td><strong>Partition coefficient: n-octanol/water</strong></td>
<td>No data available</td>
</tr>
</tbody>
</table>
Auto-ignition temperature : 229 - 282 °C
Thermal decomposition : No data available
Viscosity
Viscosity, kinematic : 1.03 mm²/s @ 40 °C (104 °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 : Keep away from heat, flame, sparks and other ignition sources.
Incompatible materials : Reducing agents
Strong bases
Strong oxidizing agents
Hazardous decomposition products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure
Inhalation
Skin contact
Eye Contact
Ingestion
Acute toxicity

Components:
8052-41-3 / 64742-88-7 / 64742-48-9:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Assessment: The substance or mixture has no acute oral toxicity

Acute inhalation toxicity : LC50 (Rat, male and female): mg/m³ >5500
Exposure time: 4 h
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 (Rabbit, male and female): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Skin corrosion/irritation

**Product:**

**Components:**
8052-41-3 / 64742-88-7 / 64742-48-9:
Species: Rabbit
Exposure time: 4 h
Result: Irritating to skin.

Serious eye damage/eye irritation

**Product:**

**Components:**
8052-41-3 / 64742-88-7 / 64742-48-9:
Species: Rabbit
Result: Irritating to eyes.

Respiratory or skin sensitisation

**Components:**
8052-41-3 / 64742-88-7 / 64742-48-9:
Test Type: Buehler Test
Species: Guinea pig
Result: Did not cause sensitisation on laboratory animals.

Germ cell mutagenicity

**Components:**
8052-41-3 / 64742-88-7 / 64742-48-9:
Germ cell mutagenicity : Mutagenicity classification not possible from current data
Assessment

Carcinogenicity

**Components:**
8052-41-3 / 64742-88-7 / 64742-48-9:
Species: Rat, (male and female)
Application Route: Inhalation
Exposure time: 105 wks
Activity duration: 6 h
Dose: 0, 138, 550, 1100, 2200 mg/m³
Frequency of Treatment: 5 days/week
NOAEL: 138 mg/m³

Result: No evidence of carcinogenic activity in females, Evidence of carcinogenic activity in
malignant
Symptoms: Increased incidence of pheochromocytomas in adrenal glands

Carcinogenicity - Assessment
: Not classifiable as a human carcinogen.

IARC
Group 1: Carcinogenic to humans
71-43-2 **Benzene

Group 2B: Possibly carcinogenic to humans
98-82-8 **Cumene
100-41-4 **Ethylbenzene
91-20-3 **Naphthalene

OSHA
OSHA specifically regulated carcinogen
71-43-2 **Benzene

NTP
Known to be human carcinogen
71-43-2 **Benzene
Reasonably anticipated to be a human carcinogen
91-20-3 **Naphthalene

Reproductive toxicity

Components:
8052-41-3 / 64742-88-7 / 64742-48-9:

Effects on fertility:
: Species: Rat
  Application Route: Oral
  Dose: 0, 750, 1500, 3000 mg/kg/d
  General Toxicity - Parent: NOAEL: 1,500 mg/kg body weight
  Fertility: NOAEL: >= 3,000 mg/kg body weight
  Symptoms: weight loss
  Result: No reproductive effects.
  Remarks: Information given is based on data obtained from similar substances.

Species: Rat
Application Route: Oral
Dose: 0, 325, 750, 1500 mg/kg/d
General Toxicity - Parent: NOAEL: 750 mg/kg body weight
General Toxicity F1: NOAEL: 750 mg/kg body weight
Fertility: NOAEL: >= 1,500 mg/kg body weight
Symptoms: Reduced maternal body weight gain Reduced offspring weight gain
Result: Animal testing did not show any effects on fertility.
Remarks: Information given is based on data obtained from
similar substances.

Species: Rat
Application Route: Dermal
Dose: 0, 165, 330, 494 mg/kg
General Toxicity - Parent: NOAEL: \( \geq 494 \) mg/kg
Fertility: NOAEL: \( \geq 494 \) mg/kg
Early Embryonic Development: NOAEL: \( \geq 494 \) mg/kg
Result: No reproductive effects.
Remarks: Information given is based on data obtained from similar substances.

Effects on foetal development:
Species: Rat
Application Route: Oral
Dose: 0, 500, 1000, 1500, 2000 milligram per kilogram
Duration of Single Treatment: 10 d
General Toxicity Maternal: NOAEL: 500 mg/kg body weight
Teratogenicity: NOAEL: 2,000 mg/kg body weight
Developmental Toxicity: NOAEL: 1,000 mg/kg body weight
Symptoms: Reduced body weight
Result: Developmental toxicity occurred at maternal toxicity dose levels, No teratogenic effects

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

STOT - single exposure

Components:
8052-41-3 / 64742-88-7 / 64742-48-9:
Exposure routes: Inhalation
Target Organs: Central nervous system
Assessment: May cause drowsiness or dizziness., The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.

Aspiration toxicity

Components:
8052-41-3 / 64742-88-7 / 64742-48-9:
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:

**8052-41-3 / 64742-88-7 / 64742-48-9:**

Toxicity to fish: LL50 (Oncorhynchus mykiss (rainbow trout)): 2 mg/l
Exposure time: 96 h
Test Type: semi-static test
Remarks: Information given is based on data obtained from similar substances.

Toxicity to daphnia and other aquatic invertebrates: EL50 (Daphnia magna (Water flea)): 1.4 mg/l
Exposure time: 48 h
Test Type: static test

Toxicity to algae: EL50 (Pseudokirchneriella subcapitata (microalgae)): 1 mg/l
End point: Growth rate
Exposure time: 72 h
Test Type: static test
Remarks: Information given is based on data obtained from similar substances.

Acute aquatic toxicity - Assessment: Toxic to aquatic life.

Chronic aquatic toxicity - Assessment: Toxic to aquatic life with long lasting effects.

Persistence and degradability

Components:

**8052-41-3 / 64742-88-7 / 64742-48-9:**

Biodegradability: aerobic
Biodegradation: 61 %
Testing period: 10 d
Exposure time: 28 d
Test substance: Solvent naphtha (petroleum), heavy aromatic

Bioaccumulative potential

Components:

**95-63-6:**
Partition coefficient: n-octanol/water: Remarks: No data available

**1330-20-7:**
Partition coefficient: n-octanol/water: log Pow: 2.77 - 3.15

**108-88-3:**
Partition coefficient: n-octanol/water: log Pow: 2.73
octanol/water

98-82-8:
Partition coefficient: n-octanol/water : log Pow: 3.55 (23 °C)

110-54-3:
Partition coefficient: n-octanol/water : log Pow: 3.90 - 4.11

71-43-2:
Partition coefficient: n-octanol/water : Pow: 2.13 (25 °C)
pH: 7

91-20-3:
Partition coefficient: n-octanol/water : log Pow: 3.4 (25 °C)
pH: 7 - 7.5

Mobility in soil

Components:
8052-41-3 / 64742-88-7 / 64742-48-9:

Other adverse effects

Product:
Ozone-Depletion Potential : 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.
Toxic 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.
Do not burn, or use a cutting torch on, the empty drum.
SECTION 14. TRANSPORT INFORMATION

DOT (Department of Transportation):
UN1268, PETROLEUM DISTILLATES, N.O.S., CBL, III

IATA (International Air Transport Association):
UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III

IMDG (International Maritime Dangerous Goods):
UN1268, PETROLEUM DISTILLATES, N.O.S., 3, III, Marine Pollutant (STODDARD SOLVENT, TRIMETHYL BENZENE), Flash Point: 37.78 - 44 °C (100.00 - 111 °F)

Special Notes: The flash point for this material is greater than 100 F (38 C). Therefore, in accordance with 49 CFR 173.150(f) non-bulk containers (<450L or <119 gallon capacity) of this material may be shipped as non-regulated when transported solely by land, as long as the material is not a hazardous waste, a marine pollutant, or specifically listed as a hazardous substance.

SECTION 15. REGULATORY INFORMATION

WHMIS Classification:
B2: Flammable liquid
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><strong>Benzene</strong></td>
<td>71-43-2</td>
<td>10</td>
<td>1000</td>
</tr>
<tr>
<td><strong>Mixed Xylenes</strong></td>
<td>1330-20-7</td>
<td>100</td>
<td>2000</td>
</tr>
</tbody>
</table>

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

SARA 311/312 Hazards:
Fire Hazard
Chronic (Delayed) Health Hazard
Immediate (Acute) Health Hazard

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:

<table>
<thead>
<tr>
<th>Component</th>
<th>CAS-No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>95-63-6</td>
<td>**1,2,4-trimethylbenzene</td>
</tr>
<tr>
<td>1330-20-7</td>
<td>**Mixed Xylenes</td>
</tr>
<tr>
<td>108-88-3</td>
<td>**Toluene</td>
</tr>
<tr>
<td>98-82-8</td>
<td>**Cumene</td>
</tr>
</tbody>
</table>
Clean Air Act

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

- 1330-20-7 **Mixed Xylenes
- 108-88-3 **Toluene
- 98-82-8 **Cumene
- 100-41-4 **Ethylbenzene
- 91-20-3 **n-Hexane

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

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):

- 1330-20-7 **Mixed Xylenes
- 108-88-3 **Toluene
- 98-82-8 **Cumene
- 100-41-4 **Ethylbenzene

Clean Water Act

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

- 1330-20-7 **Mixed Xylenes
- 108-88-3 **Toluene
- 100-41-4 **Ethylbenzene
- 71-43-2 **Benzene
- 91-20-3 **Naphthalene

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

- 1330-20-7 **Mixed Xylenes
- 108-88-3 **Toluene
- 100-41-4 **Ethylbenzene
- 71-43-2 **Benzene
- 91-20-3 **Naphthalene

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

- 108-88-3 **Toluene
- 100-41-4 **Ethylbenzene

US State Regulations

Massachusetts Right To Know

- 8052-41-3 / Stoddard Solvent AND/OR Solvent 90 - 100 %
- 64742-88-7 / Naphtha (Petroleum), Medium Aliph.
- 64742-48-9 AND/OR Hydrotreated Naphtha, Heavy
- 25551-13-7 **Benzene, trimethyl- 5 - 10 %
- 95-63-6 **1,2,4-trimethylbenzene 5 - 10 %
- 1330-20-7 **Mixed Xylenes 5 - 10 %
- 111-84-2 **Nonane 5 - 10 %
- 108-88-3 **Toluene 1 - 5 %
- 98-82-8 **Cumene 1 - 5 %
- 100-41-4 **Ethylbenzene 1 - 5 %
- 110-54-3 **n-Hexane 1 - 5 %
- 71-43-2 **Benzene 0.1 - 1 %
Pennsylvania Right To Know

8052-41-3 / 64742-88-7 / 64742-48-9
Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy
95-63-6
**Benzene, trimethyl-
1330-20-7
**Mixed Xylenes
111-84-2
**Nonane
108-88-3
**Toluene
98-82-8
**Cumene
100-41-4
**Ethylbenzene
110-54-3
**n-Hexane
71-43-2
**Benzene
91-20-3
**Naphthalene

New Jersey Right To Know

8052-41-3 / 64742-88-7 / 64742-48-9
Stoddard Solvent AND/OR Solvent Naphtha (Petroleum), Medium Aliph. AND/OR Hydrotreated Naphtha, Heavy
25551-13-7
**Benzene, trimethyl-
95-63-6
***1,2,4-trimethylbenzene
1330-20-7
**Mixed Xylenes
111-84-2
**Nonane
108-88-3
**Toluene
98-82-8
**Cumene
100-41-4
**Ethylbenzene
110-54-3
**n-Hexane
71-43-2
**Benzene
91-20-3
**Naphthalene

California Prop 65

WARNING! This product contains a chemical known to the State of California to cause cancer.

98-82-8
**Cumene
100-41-4
**Ethylbenzene
71-43-2
**Benzene
91-20-3
**Naphthalene

WARNING! This product contains a chemical known to the State of California to cause birth defects or other reproductive harm.

108-88-3
**Toluene
71-43-2
**Benzene

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

TSCA: On TSCA Inventory
DSL: All components of this product are on the Canadian DSL
AICS: On the inventory, or in compliance with the inventory
NZIoC: On the inventory, or in compliance with the inventory
ENCS: Not in compliance with the inventory
KECI: On the inventory, or in compliance with the inventory
PICCS: On the inventory, or in compliance with the inventory
IECSC: On the inventory, or in compliance with the inventory

SECTION 16. OTHER INFORMATION

NFPA:

<table>
<thead>
<tr>
<th>Flammability</th>
<th>Health</th>
<th>Instability</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>2</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>3</td>
<td>0</td>
</tr>
</tbody>
</table>

Special hazard.

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

Revision Date: 03/17/2016
Legacy SDS: R0000589
Material number:
16103032, 16102300, 782184, 675948, 640758, 581940, 554166, 554247, 554201, 554165, 86611, 547091, 547061, 547062, 550245, 508581, 70142, 102366, 102354, 70154, 69933, 102904, 87262, 102901, 157504, 503757, 39830, 20077, 20075, 86037, 722819, 20072, 16056759, 16056758, 102692, 70151, 102993, 20084, 20082, 16075682, 16002525, 765097, 687316, 661358, 85984, 69595, 20078, 102913, 20076, 502847

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

<table>
<thead>
<tr>
<th>ACGIH</th>
<th>American Conference of Government Industrial Hygienists</th>
<th>LD50</th>
<th>Lethal Dose 50%</th>
</tr>
</thead>
<tbody>
<tr>
<td>AICS</td>
<td>Australia, Inventory of Chemical Substances</td>
<td>LOAEL</td>
<td>Lowest Observed Adverse Effect Level</td>
</tr>
<tr>
<td>DSL</td>
<td>Canada, Domestic Substances List</td>
<td>NFPA</td>
<td>National Fire Protection Agency</td>
</tr>
</tbody>
</table>

SDS Number: 100000002569

Mineral Spirits NE
<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<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>EGEST</td>
<td>EOSCA Generic Exposure Scenario Tool</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>
</tr>
<tr>
<td>MAK</td>
<td>Germany Maximum Concentration Values</td>
</tr>
<tr>
<td>GHS</td>
<td>Globally Harmonized System</td>
</tr>
<tr>
<td>IARC</td>
<td>International Agency for Research on Cancer</td>
</tr>
<tr>
<td>IECSC</td>
<td>Inventory of Existing Chemical Substances in China</td>
</tr>
<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>
</tr>
<tr>
<td>LC50</td>
<td>Lethal Concentration 50%</td>
</tr>
<tr>
<td>NIOSH</td>
<td>National Institute for Occupational Safety &amp; Health</td>
</tr>
<tr>
<td>NTP</td>
<td>National Toxicology Program</td>
</tr>
<tr>
<td>NZIoC</td>
<td>New Zealand Inventory of Chemicals</td>
</tr>
<tr>
<td>NOAEL</td>
<td>No Observable Adverse Effect Level</td>
</tr>
<tr>
<td>NOEC</td>
<td>No Observed Effect Concentration</td>
</tr>
<tr>
<td>OSHA</td>
<td>Occupational Safety &amp; Health Administration</td>
</tr>
<tr>
<td>PEL</td>
<td>Permissible Exposure Limit</td>
</tr>
<tr>
<td>PICCS</td>
<td>Philippines Inventory of Commercial Chemical Substances</td>
</tr>
<tr>
<td>PRNT</td>
<td>Presumed Not Toxic</td>
</tr>
<tr>
<td>RCRA</td>
<td>Resource Conservation Recovery Act</td>
</tr>
<tr>
<td>STEL</td>
<td>Short-term Exposure Limit</td>
</tr>
<tr>
<td>SARA</td>
<td>Superfund Amendments and Reauthorization Act</td>
</tr>
<tr>
<td>TLV</td>
<td>Threshold Limit Value</td>
</tr>
<tr>
<td>TWA</td>
<td>Time Weighted Average</td>
</tr>
<tr>
<td>TSCA</td>
<td>Toxic Substance Control Act</td>
</tr>
<tr>
<td>UVCB</td>
<td>Unknown or Variable Composition, Complex Reaction Products, and Biological Materials</td>
</tr>
<tr>
<td>WHMIS</td>
<td>Workplace Hazardous Materials Information System</td>
</tr>
</tbody>
</table>