SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
- Chemical Name: Mixture
- CAS No.: Mixture
- Trade Name: QUICK START ETHER CYLINDER
- Product Code: 30-500879

Relevant identified uses of the substance or mixture and uses advised against
- Identified Use(s): Starting Fluid
- Uses Advised Against: None

Company Identification
- Spray Products Corporation
- P.O. Box 737
- Norristown, PA 19404

Telephone: (610) 277-1010
Fax: (610) 277-4390
E-Mail (competent person): johnd@sprayproducts.com

Emergency telephone number
- Emergency Phone No.: Transportation Emergency: CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887 (Collect calls accepted)

SECTION 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture
- OSHA HCS (29 CFR 1910.1200): Flam. Gas 1; Liquefied gas; Skin Irrit. 2 ; Carc. 2; Repr. 2; STOT SE 3

Label elements
- Hazard Symbol: DANGER

Signal word(s)
- Hazard Statement(s):
  - Extremely flammable gas.
  - Contains gas under pressure; may explode if heated.
  - Causes skin irritation.
  - Suspected of causing cancer.
  - Suspected of damaging the unborn child.
  - May cause drowsiness or dizziness.

Precautionary Statement(s)
- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
- Wear protective gloves/protective clothing/eye protection/face protection.
- Avoid breathing dust/fume/gas/mist/vapours/spray.
- Wash hands and exposed skin after use.
- Use only outdoors or in a well-ventilated area.
- Protect from sunlight and do not expose to temperatures exceeding 50 ºC/122 ºF.
- Leaking gas fire: Do not extinguish, unless leak can be stopped safely.
QUICK START ETHER CYLINDER

Eliminate all ignition sources if safe to do so.

Other hazards

Toxic to aquatic life. Toxic to aquatic life with long lasting effects.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Hazardous Ingredient(s)</th>
<th>% wt. *</th>
<th>CAS No.</th>
<th>Hazard classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethyl Ether</td>
<td>55 - 65</td>
<td>60-29-7</td>
<td>Flam. Liq. 1: H224</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Acute Tox. 4: H302</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3: H336</td>
</tr>
<tr>
<td>Naptha (petroleum) hydrotreated light</td>
<td>20 - 30</td>
<td>64742-49-0</td>
<td>Flam. Liq. 2: H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irr. 2: H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Asp. Tox. 1: H304</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3: H336</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 2: H401</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 2: H11</td>
</tr>
<tr>
<td>Carbon Dioxide</td>
<td>10 - 15</td>
<td>124-38-9</td>
<td>Compressed dissolved gas; H280</td>
</tr>
<tr>
<td>Ethanol</td>
<td>&lt;5</td>
<td>64-17-5</td>
<td>Flam. Liq. 2: H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irr. 2: H319</td>
</tr>
<tr>
<td>Chloroethane</td>
<td>&lt; 2</td>
<td>75-00-3</td>
<td>Flam. Gas 1: H220</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Carc. 2: H351</td>
</tr>
<tr>
<td>Petroleum Distillate</td>
<td>&lt; 1</td>
<td>Mixture</td>
<td>Asp. Tox. 1: H304</td>
</tr>
<tr>
<td>Toluene</td>
<td>&lt; 0.5</td>
<td>108-88-3</td>
<td>Flam. Liq. 2: H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Repr. 2: H361</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irr. 2: H315</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irr. 2: H319</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Asp. Tox. 1: H304</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT SE 3: H336</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>STOT RE 2: H373</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Acute 2: H401</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Aquatic Chronic 3: H412</td>
</tr>
</tbody>
</table>

Additional Information – None

* The exact percentage withheld as a trade secret in accordance with 29 CFR 1910.1200.

SECTION 4: FIRST AID MEASURES

Description of first aid measures

Inhalation

Move person to fresh air. If breathing is labored, administer oxygen. If symptoms develop, obtain medical attention.

Skin Contact

Wash affected skin with soap and water. If irritation (redness, rash, blistering) develops, get medical attention. Take off contaminated clothing and wash it before reuse.

Eye Contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion

Do not induce vomiting. Do not give anything by mouth to an unconscious person. Get immediate medical attention.

Most important symptoms and effects, both acute and delayed

May cause drowsiness or dizziness.

Indication of any immediate medical attention and special treatment needed

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
SECTION 5: FIRE-FIGHTING MEASURES

Extinguishing Media
- Suitable Extinguishing Media
  Leaking gas fire: Do not extinguish, unless leak can be stopped safely. Keep containers cool by spraying with water if exposed to fire.
- Unsuitable Extinguishing Media
  Do not use water jet.

Special hazards arising from the substance or mixture
Contains gas under pressure; may explode if heated.

Advice for fire-fighters
A self contained breathing apparatus and suitable protective clothing should be worn in fire conditions. Keep containers cool by spraying with water if exposed to fire.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Eliminate sources of ignition. Avoid contact with skin and eyes. Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing gas / vapours.

Environmental precautions
Prevent liquid entering sewers, basements and work pits. Avoid release to the environment.

Methods and material for containment and cleaning up
Cover spills with inert absorbent material. Collect spillage. Transfer to a container for disposal or recovery.

Reference to other sections
None

Additional Information
None

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid contact with skin and eyes. Avoid breathing gas / vapours. Use product in a well-ventilated area only.

Conditions for safe storage, including any incompatibilities
- Storage temperature
  Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F. Keep container tightly closed. Store locked up.
- Incompatible materials
  This product should be stored away from sources of strong heat or oxidizing chemicals.

Specific end use(s)
Starting Fluid

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

<table>
<thead>
<tr>
<th>SUBSTANCE</th>
<th>CAS No.</th>
<th>(8hr TWA) PEL (OSHA)</th>
<th>(8hr TWA) TLV (ACGIH)</th>
<th>(STEL) PEL (OSHA)</th>
<th>(STEL) TLV (ACGIH)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Alkanes (C5-C6)</td>
<td>-----</td>
<td>500 ppm**</td>
<td>1500 mg/m³</td>
<td>-----</td>
<td>-----</td>
<td>**n-heptane</td>
</tr>
<tr>
<td>Diethyl ether</td>
<td>60-29-7</td>
<td>400 ppm</td>
<td>400 ppm</td>
<td>-----</td>
<td>500 ppm</td>
<td>-----</td>
</tr>
<tr>
<td>Chloroethane</td>
<td>75-00-3</td>
<td>1000 ppm</td>
<td>100 ppm*</td>
<td>-----</td>
<td>-----</td>
<td>*A3</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>5000 ppm</td>
<td>5000 ppm</td>
<td>-----</td>
<td>30,000 ppm</td>
<td>-----</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>200 ppm</td>
<td>20 ppm</td>
<td>300 ppm*</td>
<td>-----</td>
<td>*10-min. Ceiling</td>
</tr>
</tbody>
</table>

#Assure minimum oxygen content of work atmosphere. *A3 = Confirmed Animal Carcinogen with Unknown Relevance to Humans
QUICK START ETHER CYLINDER

**Recommended monitoring method**
NIOSH 1500 (hydrocarbons, B.P. 36 - 126 °C); NIOSH 1610 (Ethyl ether); NIOSH 2519 (Ethyl chloride); NIOSH 1501 (Aromatic hydrocarbons)

**Exposure controls**
**Appropriate engineering controls**
Provide adequate ventilation to ensure that the occupational exposure limit is not exceeded.

**Personal protection equipment**
**Eye/face protection**
Wear protective eyewear (goggles, face shield, or safety glasses).

**Skin protection (Hand protection/ Other)**
Wear suitable gloves if prolonged skin contact is likely. Check with protective equipment manufacturer's data.

**Respiratory protection**
Normally no personal respiratory protection is necessary. In case of insufficient ventilation, wear suitable respiratory equipment. Check with protective equipment manufacturer's data.

**Thermal hazards**
Not normally required. Use gloves with insulation for thermal protection, when needed.

**Environmental Exposure Controls**
Avoid release to the environment.

### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**Information on basic physical and chemical properties**

- **Appearance**: Gas under pressure
- **Color**: Colorless
- **Odor**: Sweetish, Hydrocarbon-like
- **Odor Threshold (ppm)**: Not available
- **pH (Value)**: Not available
- **Melting Point (°C) / Freezing Point (°C)**: Not available
- **Boiling point/boiling range (°C)**: 34 - 35 (Diethylether)
- **Flash Point (°C)**: -45 (Diethylether)
- **Evaporation Rate**: Not available
- **Flammability (solid, gas)**: Extremely flammable
- **Explosive Limit Ranges**: 1.85% - 36.5% v/v (Diethylether)
- **Vapor pressure (Pascal)**: $7.16 \times 10^4$ (Diethylether)
- **Vapor Density (Air=1)**: Not available
- **Density (g/ml)**: Not available
- **Solubility (Water)**: Not available
- **Solubility (Other)**: Not available
- **Partition Coefficient (n-Octanol/water)**: Not available
- **Auto Ignition Point (°C)**: 175 (Diethylether)
- **Decomposition Temperature (°C)**: Not available
- **Kinematic Viscosity (cSt)**: Not available
- **Explosive properties**: Not available
- **Oxidizing properties**: Not available
- **Other information**: Not available

### SECTION 10: STABILITY AND REACTIVITY

**Reactivity**: Stable under normal conditions.

**Chemical stability**: Stable.
Possibility of hazardous reactions
None anticipated.

Conditions to avoid
Avoid contact with heat and ignition sources.

Incompatible materials
This product should be stored away from sources of strong heat or oxidizing chemicals.

Hazardous decomposition product(s)
Carbon monoxide, Carbon dioxide, Acrd smoke

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes: Inhalation, Skin Contact, Eye Contact

Information on toxicological effects
Diethyl Ether (CAS# 60-29-7):

Acute toxicity
Oral: LD50 = 1600 mg/kg-bw (rat)
Dermal: LD50 >20000 mg/kg-bw (rabbit)
May cause drowsiness or dizziness.

Irritation/Corrosivity
Non-irritant to skin and eye.

Sensitisation
It is not a skin sensitiser.

Repeated dose toxicity
Not to be expected.

Carcinogenicity
Not to be expected.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

Mutagenicity
Not to be expected.

Toxicity for reproduction
Not to be expected.

Toluene (CAS#108-88-3):

Acute toxicity
Oral LD50 = 5580 mg/kg (rat)
Dermal LD50 >5000 mg/kg (rabbit)
Inhalation LC50 (4 hour(s)) 28.1 mg/l (rat) - Vapours may cause drowsiness and dizziness.

Irritation / Corrosivity
Causes serious eye irritation. Causes skin irritation.

Sensitisation
It is not a skin sensitiser.

Repeated dose toxicity
Inhalation NOAEC = 1131 mg/m³ (rat), 2 Year(s) - May cause damage to organs through prolonged or repeated exposure: neuropsychological effects, auditory dysfunction and effects on colour vision.

Carcinogenicity
It is unlikely to present a carcinogenic hazard to man.

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
</table>

Mutagenicity
There is no evidence of mutagenic potential.

Reproductive toxicity
Suspected of damaging the unborn child. NOAEC: 2.8 mg/liter (rat)

Chloroethane (CAS# 75-00-3)

Carcinogenicity

<table>
<thead>
<tr>
<th>NTP</th>
<th>IARC</th>
<th>ACGIH</th>
<th>OSHA</th>
<th>NIOSH</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clear Evidence in Female Mice</td>
<td>No.</td>
<td>A3 - Confirmed Animal Carcinogen</td>
<td>No.</td>
<td>Yes.</td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity

<table>
<thead>
<tr>
<th>Short term</th>
<th>Long Term</th>
</tr>
</thead>
<tbody>
<tr>
<td>Not available.</td>
<td>Not available.</td>
</tr>
</tbody>
</table>
SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods
Disposal should be in accordance with local, state or national legislation. Consult an accredited waste disposal contractor or the local authority for advice.

SECTION 14: TRANSPORT INFORMATION

<table>
<thead>
<tr>
<th>U.S. DOT</th>
<th>Sea transport (IMDG)</th>
<th>Air transport (ICAO/IATA)</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN number</td>
<td>1954</td>
<td>1954</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Compressed gas, flammable, n.o.s. (contains diethyl ether and carbon dioxide)</td>
<td>Compressed gas, flammable, n.o.s. (contains diethyl ether and carbon dioxide)</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
<td>2.1</td>
<td>2.1</td>
</tr>
<tr>
<td>Packing group</td>
<td>Not applicable</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Environmental hazards</td>
<td>None assigned</td>
<td>None assigned</td>
</tr>
<tr>
<td>Special precautions for user</td>
<td>None assigned</td>
<td>None assigned</td>
</tr>
</tbody>
</table>

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable

SECTION 15: REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

TSCA (Toxic Substance Control Act) - Inventory Status: All components listed or polymer exempt.

Designated Hazardous Substances and Reportable Quantities (40 CFR 302.4):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>RQ (Pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diethylether</td>
<td>60-29-7</td>
<td>~58</td>
<td>100</td>
</tr>
<tr>
<td>Chloroethane</td>
<td>75-00-3</td>
<td>&lt; 2</td>
<td>1000</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>&lt; 1</td>
<td>1000</td>
</tr>
</tbody>
</table>

SARA 311/312 - Hazard Categories:
☐ Fire ☑ Sudden Release ☐ Reactivity ☑ Immediate (acute) ☑ Chronic (delayed)

SARA 313 - Toxic Chemicals (40 CFR 372):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Chloroethane</td>
<td>75-00-3</td>
<td>&lt; 2</td>
</tr>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>&lt; 1</td>
</tr>
</tbody>
</table>

SARA 302 - Extremely Hazardous Substances (40 CFR 355):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Typical %wt.</th>
<th>TPQ (pounds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None</td>
<td>----</td>
<td>----</td>
<td>----</td>
</tr>
</tbody>
</table>

California Proposition 65 List:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS No.</th>
<th>Type of Toxicity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Toluene</td>
<td>108-88-3</td>
<td>Developmental, Female Reproductive</td>
</tr>
<tr>
<td>Chloroethane</td>
<td>45-00-3</td>
<td>Cancer</td>
</tr>
</tbody>
</table>

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.

Date of preparation: August 17, 2015
Hazard Statement(s) and Risk Phrases Listed in: SECTION 2: SECTION 3:

Hazard Statement(s)
- H220: Extremely flammable gas.
- H224: Extremely flammable liquid and vapour.
- H225: Highly flammable liquid and vapour.
- H280: Contains gas under pressure; may explode if heated.
- H302: Hazardous if swallowed.
- H304: May be fatal if swallowed and enters airways.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H336: May cause drowsiness or dizziness.
- H351: Suspected of causing cancer.
- H361d: Suspected of damaging the unborn child.
- H373: May cause damage to organs through prolonged or repeated exposure.
- H401: Toxic to aquatic life.
- H411: Toxic to aquatic life with long lasting effects.
- H412: Hazardous to aquatic life with long lasting effects.

Training advice: None.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user’s responsibility to satisfy oneself as to the suitability and completeness of this information for the user’s own particular use.