# SPRAY PRODUCTS STARTING FLUID

# SAFETY DATA SHEET

OSHA HCS (29 CFR 1910.1200)

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**Product identifier**

| | |
|---|---|
| Chemical Name | Mixture |
| CAS No. | Mixture |
| Trade Name | SPRAY PRODUCTS STARTING FLUID |
| Product Code | SP-065516A, SP-065512AF, SP-065512A |

**Relevant identified uses of the substance or mixture and uses advised against**

| | |
|---|---|
| Identified Use(s) | Engine starting aid |
| Uses Advised Against | None |
| Company Identification | Spray Products Corporation<br>P.O. Box 737<br>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. Aerosol 1; Compressed dissolved gas; Carc. 2; Skin Irrit. 2; STOT SE 3; Asp. Tox. 1

**Label elements**

Hazard Symbol

Signal word(s): **DANGER**

Hazard Statement(s):

Extremely flammable aerosol.

Contains gas under pressure; may explode if heated.

May cause cancer.

Causes skin irritation. Repeated exposure may cause skin dryness or cracking.

May cause drowsiness or dizziness.

May be fatal if swallowed and enters airways.

Precautionary Statement(s):

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.

Do not spray on an open flame or other ignition source.

Do not pierce or burn, even after use.

Use only outdoors or in a well-ventilated area.

Wear protective gloves/eye protection.

Avoid breathing spray.

Protect from sunlight and do not expose to temperatures exceeding 50 ºC/122 ºF.

Wash hands and exposed skin after use.

**Other hazards** Toxic to aquatic life. Harmful to aquatic life with long lasting effects.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

| Hazardous Ingredient(s) | % wt. * | CAS No. | Hazard classification |
|---|---|---|---|
| Heptane, branched, cyclic and linear | 35 - 70 | 426260-76-6 | Flam. Liq. 2, H225<br>Asp. Tox. 1; H304<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Aquatic Acute 2, H401<br>Aquatic Chronic 3, H412 |
| Diethyl Ether | 25 - 60 | 60-29-7 | Flam. Liq. 1; H224<br>Acute Tox. 4; H302<br>STOT SE 3; H336 |
| Carbon Dioxide | 5 - 10 | 124-38-9 | Compressed dissolved gas; H280 |
| Ethanol | < 2 | 64-17-5 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319 |
| Chloroethane | < 1 | 75-00-3 | Flam. Gas 1; H220<br>Carc. 2; H351<br>Aquatic Chronic 3; H412 |
| Distillates (petroleum), hydrotreated heavy naphthenic | <0.5 | 64742-52-5 | Asp. Tox. 1; H304 |
| Distillates (petroleum), hydrotreated Light naphthenic | <0.5 | 64742-53-6 | Asp. Tox. 1; H304 |

**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. |
| 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 be fatal if swallowed and enters airways. Do NOT induce vomiting.

**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 | Extinguish with carbon dioxide, dry chemical, foam or water spray. |
| -Unsuitable Extinguishing Media | Do not use water jet. |

**Special hazards arising from the substance or mixture** — Highly flammable vapor (flash point below 23°C).

**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** — Avoid contact with skin and eyes.

**Environmental precautions** — Prevent liquid entering sewers, basements and work pits.

**Methods and material for containment and cleaning up** — Cover spills with inert absorbent material. 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. Use product in a well-ventilated area only. Do not use in confined spaces.

**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.

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

**Specific end use(s)** — Engine starting aid

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

**Occupational Exposure Limits**

| SUBSTANCE. | CAS No. | (8hr TWA) | | (STEL) | | Note: |
|---|---|---|---|---|---|---|
| | | PEL (OSHA) | TLV (ACGIH) | PEL (OSHA) | TLV (ACGIH) | |
| Heptane, branched, cylic and linear | 426260-76-6 | 500 ppm* | 1500 mg/m$^3$ | ----- | ----- | *n-heptane |
| Diethyl ether | 60-29-7 | 400 ppm | 400 ppm | ----- | 500 ppm | ----- |
| Chloroethane | 75-00-3 | 1000 ppm | 100 ppm* | ----- | ----- | *A3 |
| Carbon dioxide | 124-38-9 | ------- | 5000 ppm | ------ | 30,000 ppm | ----- |

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

**Recommended monitoring method** — NIOSH 1500 (hydrocarbons, B.P. 36 - 126 ºC); NIOSH 1610 (Ethyl ether); NIOSH 2519 (Ethyl chloride)

**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 (Nitrile rubber or Butyl rubber). 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 | Liquid |
| 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) | <20 @ 40 °C |
| 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, Acrid smoke |

## SECTION 11: TOXICOLOGICAL INFORMATION

**Exposure routes:** Inhalation**,** Skin Contact**,** Eye Contact

**Information on toxicological effects**

Heptane, branched, cylic and linear (CAS# 426260-76-6) - By analogy with similar materials:

**Acute toxicity**
Oral: LD50 >5 g/kg-bw
Dermal: LD50 >2 g/kg-bw
Inhalation: LC50 = 65 - 103 mg/L (Vapour), 4-hr. rat
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.

**Irritation/Corrosivity**
Causes skin irritation. Repeated exposure may cause skin dryness or cracking. May cause eye irritation.

**Sensitisation**
It is not a skin sensitiser.

**Repeated dose toxicity**
NOAEC: 12350 mg/m3 (2 yr, inhal., rat, Systemic effects)
LOAEC: 1650 mg/m3 (2 hr, inhal., rat, CNS effects)
May cause drowsiness or dizziness.

**Carcinogenicity**
No data. It is unlikely to present a carcinogenic hazard to man.

| NTP | IARC | ACGIH | OSHA | NIOSH |
|---|---|---|---|---|
| No. | No. | No. | No. | No. |

**Mutagenicity**
There is no evidence of mutagenic potential.

**Toxicity for reproduction**
No information available

Chloroethane (CAS# 75-00-3)

| NTP | IARC | ACGIH | OSHA | NIOSH |
|---|---|---|---|---|
| Clear Evidence in Female Mice | No. | A3 - Confirmed Animal Carcinogent | No. | Yes. |

## SECTION 12: ECOLOGICAL INFORMATION

**Ecotoxicity**

Heptane, branched, cylic and linear (CAS# 426260-76-6) - By analogy with similar materials:

Short term
LL50 (96 hour): >13.4 mg/L (*Oncorhynchus mykiss*)
EL50 (48 hour): 3 mg/l (*Daphnia magna,* mobility*)*
EC50 (96 hour): 13 mg/l (*Pseudokirchnerella subcapitata*)

Long Term
NOELR (28 days) 1.5 mg/l *(Fish*) QSAR
LOEC (21 days): 0.32 mg/l (*Daphnia magna*)
NOEL (96 hour) 6.3 mg/l (Algae)

**Persistence and degradability**
Readily biodegradable.

**Bioaccumulative potential**
The product has no potential for bioaccumulation.

**Mobility in soil**
Not available.

**Results of PBT and vPvB assessment**
Not classified as PBT or vPvB.

**Other adverse effects**
None known.

## 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

| | U.S. DOT | Sea transport (IMDG) | Air transport (ICAO/IATA) |
|---|---|---|---|
| **UN number** | 1950 | 1950 | 1950 |
| **Proper Shipping Name** | Aerosols, flammable | Aerosols, flammable | Aerosols, flammable |
| **Transport hazard class(es)** | 2.1 | 2.1 | 2.1 |
| **Packing group** | Not applicable | Not applicable | Not applicable |
| **Environmental hazards** | None assigned | None assigned | None assigned |
| **Special precautions for user** | None assigned | None assigned | None assigned |

**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)**:

| Chemical Name | CAS No. | Typical %wt. | RQ (Pounds) |
|---|---|---|---|
| Chloroethane | 75-00-3 | < 1 | 1000 |

**SARA 311/312 - Hazard Categories:**

☒ Fire ☒ Sudden Release ☐ Reactivity ☒ Immediate (acute) ☒ Chronic (delayed)

**SARA 313 - Toxic Chemicals (40 CFR 372):**

| Chemical Name | CAS No. | Typical %wt. |
|---|---|---|
| Chloroethane | 75-00-3 | < 1 |

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

| Chemical Name | CAS No. | Typical %wt. | TPQ (pounds) |
|---|---|---|---|
| None | ---- | ---- | ---- |

**California Proposition 65 List:**

| Chemical Name | CAS No. | Type of Toxicity |
|---|---|---|
| Toluene | 108-88-3 | Developmental |
| Chloroethane | 45-00-3 | Cancer |

## SECTION 16: OTHER INFORMATION

**The following sections contain revisions or new statements:** 1-16.
**Date of preparation:** April 20, 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 vapor.
- H280: Contains gas under pressure; may explode if heated.
- H302: Harmful 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.
- H401: Toxic to aquatic life.
- H412: Harmful to aquatic life with long lasting effects.

**Training advice:** None.

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