Ultra Fire 50 Starting Fluid

SAFETY DATA SHEET
OSHA HCS (29 CFR 1910.1200)

SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Product identifier
Chemical Name
CAS No.
Trade Name
Product Code
Mixture
Mixture
Mixture
Ultra Fire 50 Starting Fluid
80-1215

Relevant identified uses of the substance or mixture and uses advised against
Identified Use(s)
Uses Advised Against
Engine starting aid
None

Company Identification
Kimball Midwest
4800 Roberts Road
Columbus, OH 43228

Telephone
800-233-1294

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.
Suspected of causing 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)
Prevention
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.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Use only outdoors or in a well-ventilated area.
Avoid breathing mist/vapors/spray.
Wear protective gloves/eye protection.
Ultra Fire 50 Starting Fluid

Wash hands and exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product.

Response
IF exposed: Call a POISON CENTER or doctor/physician.
IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center or doctor if you feel unwell.
IF ON SKIN: Wash with plenty of water. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse.
IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. Do NOT induce vomiting.

Storage
Protect from sunlight and do not expose to temperatures exceeding 50 ºC/122 ºF.
Keep container closed.
Store in a well-ventilated place.
Store locked up.

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

Other hazards
Toxic to aquatic life. Harmful 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>Heptane, branched, cyclic and linear</td>
<td>35 - 70</td>
<td>426260-76-6</td>
<td>Flam. Liq. 2, H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Asp. Tox. 1; H304</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Skin Irrit. 2, H315</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 3, H412</td>
</tr>
<tr>
<td>Diethyl Ether</td>
<td>25 - 60</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>Carbon Dioxide</td>
<td>5 - 10</td>
<td>124-38-9</td>
<td>Compressed dissolved gas; H280</td>
</tr>
<tr>
<td>Ethanol</td>
<td>&lt; 2</td>
<td>64-17-5</td>
<td>Flam. Liq. 2; H225</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Eye Irrit. 2; H319</td>
</tr>
<tr>
<td>Chloroethane</td>
<td>&lt; 1</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></td>
<td></td>
<td></td>
<td>Aquatic Chronic 3; H412</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated heavy naphthenic</td>
<td>&lt;0.5</td>
<td>64742-52-5</td>
<td>Asp. Tox. 1; H304</td>
</tr>
<tr>
<td>Distillates (petroleum), hydrotreated Light naphthenic</td>
<td>&lt;0.5</td>
<td>64742-53-6</td>
<td>Asp. Tox. 1; H304</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
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.

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

<table>
<thead>
<tr>
<th>SUBSTANCE.</th>
<th>CAS No.</th>
<th>(8hr TWA)</th>
<th>(STEL)</th>
<th>Note:</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>PEL (OSHA)</td>
<td>TLV (ACGIH)</td>
<td>PEL (OSHA)</td>
</tr>
<tr>
<td>Heptane, branched, cyclic and linear</td>
<td>426260-76-6</td>
<td>500 ppm*</td>
<td>1500 mg/m³</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-----</td>
<td>----</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Diethyl ether</td>
<td>60-29-7</td>
<td>400 ppm</td>
<td>400 ppm</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td></td>
<td>-----</td>
<td>400 ppm</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Chloroethane</td>
<td>75-00-3</td>
<td>1000 ppm</td>
<td>100 ppm*</td>
<td>-----</td>
</tr>
<tr>
<td></td>
<td></td>
<td>1000 ppm</td>
<td>500 ppm</td>
<td>500 ppm</td>
</tr>
<tr>
<td>Carbon dioxide</td>
<td>124-38-9</td>
<td>5000 ppm</td>
<td>30,000 ppm</td>
<td>30,000 ppm</td>
</tr>
</tbody>
</table>

*PeL (OSHa) = PeL (OSHA); TLV (ACGIH) = TLV (ACGIH)

#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 °C); 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 x 10⁴ (Diethylether)
Vapor Density (Air=1)                             Not available
Density (g/ml)                                    Not available
Solubility (Water)                                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, cyclic 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.

Mutagenicity:
There is no evidence of mutagenic potential.

Toxicity for reproduction:
No information available

Chloroethane (CAS# 75-00-3)

<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:
Heptane, branched, cyclic and linear (CAS# 426260-76-6) - By analogy with similar materials:
Ultra Fire 50 Starting Fluid

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 (Pseudokirchneriella 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

<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>1950</td>
<td>1950</td>
</tr>
<tr>
<td>Proper Shipping Name</td>
<td>Aerosols, flammable</td>
<td>Aerosols, flammable</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>Chloroethane</td>
<td>75-00-3</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; 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</td>
</tr>
<tr>
<td>Chloroethane</td>
<td>45-00-3</td>
<td>Cancer</td>
</tr>
</tbody>
</table>

Revision: October 30, 2015
Ultra Fire 50 Starting Fluid

SECTION 16: OTHER INFORMATION

The following sections contain revisions or new statements: 1-16.
Date of preparation: October 30, 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.

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.