

# Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)  
Issue date: 3/26/2025 Version: 1.0

## SECTION 1 Identification

### 1.1. Product identifier

Product form : Mixture  
Product name : Ultra-Fire 50 Starting Fluid  
Product code : 801215  
Vaporizer : Aerosol

### 1.2. Other means of identification

No additional information available

### 1.3. Recommended use of the chemical and restrictions on use

Restrictions on use : None known

### 1.4. Supplier's details

Kimball Midwest  
4800 Roberts Road  
Columbus Ohio  
43228  
Phone: 800-233-1294

### 1.5. Emergency phone number : CHEMTREC 24 hr. 1-800-424-9300 / 1 (703) 527-3887

Emergency number

## SECTION 2 Hazard Identification

### 2.1. Classification of the substance or mixture

#### GHS US classification

|                     |           |                                                                          |
|---------------------|-----------|--------------------------------------------------------------------------|
| Aerosol 1           | H222;H229 | Extremely flammable aerosol. Pressurized container; may burst if heated. |
| Acute Tox. 4 (Oral) | H302      | Harmful if swallowed.                                                    |
| Skin Irrit. 2       | H315      | Causes skin irritation.                                                  |
| STOT SE 3           | H336      | May cause drowsiness or dizziness.                                       |
| Asp. Tox. 1         | H304      | May be fatal if swallowed and enters airways.                            |
| Aquatic Acute 2     | H401      | Toxic to aquatic life.                                                   |
| Aquatic Chronic 2   | H411      | Toxic to aquatic life with long lasting effects.                         |

Full text of hazard classes and H-statements : see section 16

### 2.2. Label elements

#### GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) : Danger  
Hazard statements (GHS US) :  
H222 - Extremely flammable aerosol  
H229 - Pressurized container; may burst if heated  
H302 - Harmful if swallowed  
H304 - May be fatal if swallowed and enters airways  
H315 - Causes skin irritation  
H336 - May cause drowsiness or dizziness  
H401 - Toxic to aquatic life

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## Precautionary statements (GHS US)

H411 - Toxic to aquatic life with long lasting effects  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P211 - Do not spray on an open flame or other ignition source.  
P251 - Do not pierce or burn, even after use.  
P261 - Avoid breathing dust, fume, gas, mist, vapors, spray.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves.  
P301+P310 - If swallowed: Immediately call a poison center or doctor.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.  
P302+P352 - If on skin: Wash with plenty of water.  
P304+P340 - If inhaled: Remove person to fresh air and keep comfortable for breathing.  
P312 - Call a poison center or doctor if you feel unwell.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P330 - Rinse mouth.  
P331 - Do NOT induce vomiting.  
P332+P313 - If skin irritation occurs: Get medical advice or attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P391 - Collect spillage.  
P403+P233 - Store in a well-ventilated place. Keep container tightly closed.  
P405 - Store locked up.  
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).  
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulations.

## 2.3. Hazards associated with known or reasonably anticipated uses

No additional information available

## 2.4. Hazards not otherwise classified

No additional information available

## 2.5. Unknown acute toxicity

No additional information available

## SECTION 3 Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name                                 | Product identifier   | %       | GHS US classification                                                                                                                 |
|--------------------------------------|----------------------|---------|---------------------------------------------------------------------------------------------------------------------------------------|
| diethyl ether, ether                 | CAS-No.: 60-29-7     | 45 – 65 | Flam. Liq. 1, H224<br>Acute Tox. 4 (Oral), H302<br>STOT SE 3, H336                                                                    |
| Heptane, branched, cyclic and linear | CAS-No.: 426260-76-6 | 35 – 55 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401<br>Aquatic Chronic 2, H411 |

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| Name                                         | Product identifier | %       | GHS US classification                                                                                      |
|----------------------------------------------|--------------------|---------|------------------------------------------------------------------------------------------------------------|
| Carbon dioxide<br>(Propellant gas (Aerosol)) | CAS-No.: 124-38-9  | 3 – 6   | Not classified                                                                                             |
| heptane, n-heptane                           | CAS-No.: 142-82-5  | 0.4 - 2 | Flam. Liq. 2, H225<br>Skin Irrit. 2, H315<br>STOT SE 3, H336<br>Asp. Tox. 1, H304<br>Aquatic Acute 2, H401 |

The product is an aerosol. The components' disclosure has been adjusted to no longer include the propellant.

Full text of hazard classes and H-statements : see section 16

## SECTION 4 First aid measures

### 4.1. Description of necessary first-aid measures

First-aid measures general : Call a physician immediately.  
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.  
First-aid measures after skin contact : Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.  
First-aid measures after eye contact : Rinse eyes with water as a precaution.  
First-aid measures after ingestion : Rinse mouth. Do not induce vomiting. Call a physician immediately.

### 4.2. Most important symptoms/effects, acute and delayed

Symptoms/effects : May cause drowsiness or dizziness.  
Symptoms/effects after inhalation : None under normal conditions.  
Symptoms/effects after skin contact : Irritation.  
Symptoms/effects after eye contact : None under normal conditions.  
Symptoms/effects after ingestion : Harmful if swallowed. Risk of lung edema.

### 4.3. Indication of immediate medical attention and special treatment needed, if necessary

Other medical advice or treatment : Treat symptomatically.

## SECTION 5: Fire-fighting measures

### 5.1. Suitable (and unsuitable) extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.  
Unsuitable extinguishing media : Do not use a heavy water stream.

### 5.2. Specific hazards arising from the chemical

Fire hazard : Extremely flammable aerosol.  
Explosion hazard : Pressurized container: may burst if heated.  
Hazardous decomposition products in case of fire : Toxic fumes may be released.

### 5.3. Special protective equipment and precautions for fire-fighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.  
Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

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## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

General measures : Stop leak if safe to do so. Prevent runoff from entering drains, sewers or waterways. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material-damage.

#### For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.  
Emergency procedures : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes.

#### For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

Environmental precautions : Avoid release to the environment.

### 6.2. Methods and materials for containment and cleaning up

For containment : Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak, if possible without risk.  
Methods for cleaning up : Mechanically recover the product.  
Other information : Dispose of materials or solid residues at an authorized site.

For further information refer to section 13

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. 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 dust/fume/gas/mist/vapors/spray. Avoid contact with skin and eyes. Wear personal protective equipment.  
Hygiene measures : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.  
Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

### 7.2. Conditions for safe storage, including incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.  
Storage conditions : Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F. Store locked up. Store in a well-ventilated place. Keep container tightly closed.  
Packaging materials : Store always product in container of same material as original container.

## SECTION 8 Exposure controls/personal protection

### 8.1. Control parameters

diethyl ether, ether (60-29-7)

USA - ACGIH - Occupational Exposure Limits

|            |             |
|------------|-------------|
| Local name | Ethyl ether |
|------------|-------------|

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|                                                      |                                                                                                                                      |
|------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>diethyl ether, ether (60-29-7)</b>                |                                                                                                                                      |
| ACGIH OEL TWA                                        | 400 ppm                                                                                                                              |
| ACGIH OEL STEL                                       | 500 ppm                                                                                                                              |
| Remark (ACGIH)                                       | TLV® Basis: CNS impair; URT irr                                                                                                      |
| Regulatory reference                                 | ACGIH 2024                                                                                                                           |
| <b>USA - OSHA - Occupational Exposure Limits</b>     |                                                                                                                                      |
| Local name                                           | Ethyl ether                                                                                                                          |
| OSHA PEL TWA                                         | 1200 mg/m³                                                                                                                           |
|                                                      | 400 ppm                                                                                                                              |
| Regulatory reference (US-OSHA)                       | OSHA Annotated Table Z-1                                                                                                             |
| <b>USA - Cal/OSHA - Occupational Exposure Limits</b> |                                                                                                                                      |
| Local name                                           | Ethyl ether [Diethyl ether]                                                                                                          |
| Cal/OSHA PEL (OEL TWA)                               | 1200 mg/m³                                                                                                                           |
|                                                      | 400 ppm                                                                                                                              |
| Cal/OSHA STEL                                        | 1500 mg/m³                                                                                                                           |
|                                                      | 500 ppm                                                                                                                              |
| Regulatory reference                                 | California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1) |
| <b>USA - NIOSH - Occupational Exposure Limits</b>    |                                                                                                                                      |
| Local name                                           | Ethyl ether [Diethyl ether]                                                                                                          |
| NIOSH REL 10h TWA                                    | 400 ppm (PELs proposed (Appendix D))                                                                                                 |
| NIOSH REL STEL                                       | 500 ppm (PELs proposed (Appendix D))                                                                                                 |
| Remark (NIOSH)                                       | Appendix D - Substances with No Established RELs                                                                                     |
| Regulatory reference (US-NIOSH)                      | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))                                                              |
| <b>heptane, n-heptane (142-82-5)</b>                 |                                                                                                                                      |
| <b>USA - ACGIH - Occupational Exposure Limits</b>    |                                                                                                                                      |
| Local name                                           | Heptane, isomers (n-Heptane)                                                                                                         |
| ACGIH OEL TWA                                        | 400 ppm                                                                                                                              |
| ACGIH OEL STEL                                       | 500 ppm                                                                                                                              |
| Remark (ACGIH)                                       | TLV® Basis: CNS impair; URT irr                                                                                                      |
| Regulatory reference                                 | ACGIH 2024                                                                                                                           |
| <b>USA - OSHA - Occupational Exposure Limits</b>     |                                                                                                                                      |
| Local name                                           | Heptane (n-Heptane)                                                                                                                  |
| OSHA PEL TWA                                         | 2000 mg/m³                                                                                                                           |
|                                                      | 500 ppm                                                                                                                              |
| Regulatory reference (US-OSHA)                       | OSHA Annotated Table Z-1                                                                                                             |
| <b>USA - Cal/OSHA - Occupational Exposure Limits</b> |                                                                                                                                      |
| Local name                                           | n-Heptane                                                                                                                            |
| Cal/OSHA PEL (OEL TWA)                               | 1600 mg/m³                                                                                                                           |

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|                                                   |                                                                                                                                      |
|---------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|
| <b>heptane, n-heptane (142-82-5)</b>              |                                                                                                                                      |
|                                                   | 400 ppm                                                                                                                              |
| Cal/OSHA STEL                                     | 2000 mg/m³                                                                                                                           |
|                                                   | 500 ppm                                                                                                                              |
| Regulatory reference                              | California Division of Occupational Safety and Health (Cal/OSHA) - Permissible Exposure Limit for Chemical Contaminants (Table AC-1) |
| <b>USA - NIOSH - Occupational Exposure Limits</b> |                                                                                                                                      |
| Local name                                        | Heptane (n-Heptane)                                                                                                                  |
| NIOSH REL 10h TWA                                 | 85 ppm                                                                                                                               |
| NIOSH REL STEL                                    | 440 ppm [15-min]                                                                                                                     |
| Regulatory reference (US-NIOSH)                   | OSHA Annotated Table Z-1 (NIOSH Pocket Guide to Chemical Hazards (NPG))                                                              |
| <b>Carbon dioxide (124-38-9)</b>                  |                                                                                                                                      |
| <b>USA - ACGIH - Occupational Exposure Limits</b> |                                                                                                                                      |
| Local name                                        | Carbon dioxide                                                                                                                       |
| ACGIH OEL TWA                                     | 5000 ppm                                                                                                                             |
| ACGIH OEL STEL                                    | 30000 ppm                                                                                                                            |
| Remark (ACGIH)                                    | TLV® Basis: Asphyxia                                                                                                                 |
| Regulatory reference                              | ACGIH 2024                                                                                                                           |
| <b>USA - OSHA - Occupational Exposure Limits</b>  |                                                                                                                                      |
| Local name                                        | Carbon dioxide                                                                                                                       |
| OSHA PEL TWA                                      | 9000 mg/m³                                                                                                                           |
|                                                   | 5000 ppm                                                                                                                             |
| Regulatory reference (US-OSHA)                    | OSHA Annotated Table Z-1                                                                                                             |

## 8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.  
Environmental exposure controls : Avoid release to the environment.

## 8.3. Individual protection measures, such as personal protective equipment

### Personal protective equipment:

Wear recommended personal protective equipment.

|                         |                      |                                                                                   |                        |                    |
|-------------------------|----------------------|-----------------------------------------------------------------------------------|------------------------|--------------------|
| <b>Hand protection:</b> |                      |                                                                                   |                        |                    |
| Wear protective gloves  |                      |                                                                                   |                        |                    |
| <b>Type</b>             | <b>Material</b>      | <b>Permeation</b>                                                                 | <b>Thickness (mm)</b>  | <b>Penetration</b> |
| Disposable gloves       | Nitrile rubber (NBR) | Check with protective equipment manufacturer's data.                              |                        |                    |
| <b>Eye protection:</b>  |                      |                                                                                   |                        |                    |
| Wear eye protection     |                      |                                                                                   |                        |                    |
| <b>Type</b>             |                      | <b>Field of application</b>                                                       | <b>Characteristics</b> |                    |
| Safety glasses          |                      | Eye protection should only be necessary where liquid could be splashed or sprayed | Clear                  |                    |

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## Skin and body protection:

Wear suitable protective clothing

## Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

## SECTION 9 Physical and chemical properties

### 9.1. Basic physical and chemical properties

|                                                 |                                               |
|-------------------------------------------------|-----------------------------------------------|
| Physical state                                  | : Liquid                                      |
| Color                                           | : Colorless                                   |
| Odor                                            | : solvent-like Slight ether                   |
| Odor threshold                                  | : No data available                           |
| pH                                              | : No data available                           |
| Melting point                                   | : Not applicable                              |
| Freezing point                                  | : No data available                           |
| Boiling point                                   | : No data available                           |
| Flash point                                     | : No data available                           |
| Flammability (solid, gas)                       | : Extremely flammable aerosol.                |
| Vapor pressure                                  | : No data available                           |
| Relative vapor density at 20°C                  | : No data available                           |
| Relative density                                | : No data available                           |
| Solubility                                      | : No data available                           |
| Partition coefficient n-octanol/water (Log Pow) | : No data available                           |
| Auto-ignition temperature                       | : No data available                           |
| Decomposition temperature                       | : No data available                           |
| Viscosity, kinematic                            | : < 20 mm <sup>2</sup> /s @ 40C               |
| Explosion limits                                | : No data available                           |
| Explosive properties                            | : Pressurized container: may burst if heated. |
| Particle characteristics                        | : No data available                           |

### 9.2. Data relevant with regard to physical hazard classes (supplemental)

No additional information available

## SECTION 10 Stability and reactivity

### 10.1. Reactivity

Extremely flammable aerosol. Pressurized container: may burst if heated.

### 10.2. Chemical stability

Stable under normal conditions.

### 10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

### 10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

### 10.5. Incompatible materials

No additional information available

### 10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

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## SECTION 11 Toxicological information

Likely routes of exposure : Inhalation. Skin and eye contact.

### 11.1. Information on toxicological effects

Acute toxicity (oral) : Harmful if swallowed.  
Acute toxicity (dermal) : Not classified (Not to be expected)  
Acute toxicity (inhalation) : Not classified (Not to be expected)

#### KIMBALL MIDWEST 80-1215 STARTING FLUID

|               |                            |
|---------------|----------------------------|
| ATE US (oral) | 1735.385 mg/kg body weight |
|---------------|----------------------------|

#### diethyl ether, ether (60-29-7)

|               |                         |
|---------------|-------------------------|
| LD50 oral rat | 1200 mg/kg Source: ECHA |
|---------------|-------------------------|

|                    |                                                                                                                   |
|--------------------|-------------------------------------------------------------------------------------------------------------------|
| LD50 dermal rabbit | > 20000 mg/kg body weight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity) |
|--------------------|-------------------------------------------------------------------------------------------------------------------|

|                             |                              |
|-----------------------------|------------------------------|
| LC50 Inhalation - Rat [ppm] | 31000 ppm Source: ChemIDPlus |
|-----------------------------|------------------------------|

#### Heptane, branched, cyclic and linear (426260-76-6)

|               |                          |
|---------------|--------------------------|
| LD50 oral rat | > 5840 mg/kg Read-across |
|---------------|--------------------------|

|                 |                                           |
|-----------------|-------------------------------------------|
| LD50 dermal rat | 2800 – 3100 mg/kg body weight Animal: rat |
|-----------------|-------------------------------------------|

|                       |                                                                                       |
|-----------------------|---------------------------------------------------------------------------------------|
| LC50 Inhalation - Rat | > 23.3 mg/l/4h Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity) |
|-----------------------|---------------------------------------------------------------------------------------|

#### heptane, n-heptane (142-82-5)

|               |                                                                                                                                                |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 oral rat | > 5000 mg/kg body weight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral Toxicity), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity) |
|---------------|------------------------------------------------------------------------------------------------------------------------------------------------|

|                    |                                                                                                                                                       |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| LD50 dermal rabbit | > 2000 mg/kg body weight Animal: rabbit, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EPA OPPTS 870.1200 (Acute Dermal Toxicity) |
|--------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|

|             |                                                       |
|-------------|-------------------------------------------------------|
| LD50 dermal | > 2000 mg/kg (rabbit: read-across OECD Guideline 402) |
|-------------|-------------------------------------------------------|

|                                |                                                  |
|--------------------------------|--------------------------------------------------|
| LC50 Inhalation - Rat (Vapors) | > 29.9 mg/l/4h (Rat: Vapours OECD Guideline 403) |
|--------------------------------|--------------------------------------------------|

Skin corrosion/irritation : Causes skin irritation.

#### diethyl ether, ether (60-29-7)

|                |                                          |
|----------------|------------------------------------------|
| Result, rabbit | Not irritating to skin (OECD 404 method) |
|----------------|------------------------------------------|

#### Heptane, branched, cyclic and linear (426260-76-6)

|                     |                                          |
|---------------------|------------------------------------------|
| Read-across, rabbit | Causes skin irritation (OECD 404 method) |
|---------------------|------------------------------------------|

#### heptane, n-heptane (142-82-5)

|                     |                                          |
|---------------------|------------------------------------------|
| Read-across, rabbit | Causes skin irritation (OECD 404 method) |
|---------------------|------------------------------------------|

Serious eye damage/irritation : Not classified (Not to be expected)

#### diethyl ether, ether (60-29-7)

|                |                                          |
|----------------|------------------------------------------|
| Result, rabbit | Not irritating to eyes (OECD 405 method) |
|----------------|------------------------------------------|

#### Heptane, branched, cyclic and linear (426260-76-6)

|                     |                                           |
|---------------------|-------------------------------------------|
| Read-across, rabbit | Not irritating to eyes EPA OPPTS 870.2400 |
|---------------------|-------------------------------------------|

#### heptane, n-heptane (142-82-5)

|                     |                                          |
|---------------------|------------------------------------------|
| Read-across, rabbit | Not irritating to eyes (OECD 405 method) |
|---------------------|------------------------------------------|

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Respiratory or skin sensitization : Not classified (Not to be expected)

## diethyl ether, ether (60-29-7)

|               |                                                        |
|---------------|--------------------------------------------------------|
| Result, mouse | Not expected to be a skin sensitizer (OECD 429 method) |
|---------------|--------------------------------------------------------|

## Heptane, branched, cyclic and linear (426260-76-6)

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| Read-across, Guinea pig | Not expected to be a skin sensitizer (OECD 406 method) |
|-------------------------|--------------------------------------------------------|

## heptane, n-heptane (142-82-5)

|                         |                                                        |
|-------------------------|--------------------------------------------------------|
| Read-across, Guinea pig | Not expected to be a skin sensitizer (OECD 406 method) |
|-------------------------|--------------------------------------------------------|

Germ cell mutagenicity : Not classified (Not to be expected)

## diethyl ether, ether (60-29-7)

|                  |                                                                                             |
|------------------|---------------------------------------------------------------------------------------------|
| Result, In vitro | Classification criteria are not met (OECD 476 method), (OECD 487 method), (OECD 471 method) |
|------------------|---------------------------------------------------------------------------------------------|

|                 |                                                       |
|-----------------|-------------------------------------------------------|
| Result, In vivo | Classification criteria are not met (OECD 474 method) |
|-----------------|-------------------------------------------------------|

## Heptane, branched, cyclic and linear (426260-76-6)

|                       |                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------|
| Read-across, In vitro | Classification criteria are not met (OECD 471 method), (OECD 473 method), (OECD 476 method) |
|-----------------------|---------------------------------------------------------------------------------------------|

|                      |                                                       |
|----------------------|-------------------------------------------------------|
| Read-across, In vivo | Classification criteria are not met (OECD 478 method) |
|----------------------|-------------------------------------------------------|

## heptane, n-heptane (142-82-5)

|                  |                                                                          |
|------------------|--------------------------------------------------------------------------|
| Result, In vitro | Classification criteria are not met (OECD 471 method), (OECD 473 method) |
|------------------|--------------------------------------------------------------------------|

|                 |                                                       |
|-----------------|-------------------------------------------------------|
| Result, In vivo | Classification criteria are not met (OECD 478 method) |
|-----------------|-------------------------------------------------------|

Carcinogenicity : Not classified (Not to be expected)

Reproductive toxicity : Not classified (Not to be expected)

## Heptane, branched, cyclic and linear (426260-76-6)

|                                          |                                                |
|------------------------------------------|------------------------------------------------|
| Read-across, oral, rat (OECD 414 method) | No significant developmental effects observed. |
|------------------------------------------|------------------------------------------------|

|                                                 |                                               |
|-------------------------------------------------|-----------------------------------------------|
| Read-across, Inhalation, rat Weight of evidence | No significant reproductive effects observed. |
|-------------------------------------------------|-----------------------------------------------|

STOT-single exposure : May cause drowsiness or dizziness.

## diethyl ether, ether (60-29-7)

|                  |                                                                                                                                                              |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NOAEL (oral,rat) | the substance is classified for Specific Target Organ Toxicity, single exposure, Category 3, according to Regulation (EC) No. 1272/2008, Annex I, 3.8.2.2.2. |
|------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|

## Heptane, branched, cyclic and linear (426260-76-6)

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

## heptane, n-heptane (142-82-5)

|                      |                                    |
|----------------------|------------------------------------|
| STOT-single exposure | May cause drowsiness or dizziness. |
|----------------------|------------------------------------|

STOT-repeated exposure : Not classified (Not to be expected)

## diethyl ether, ether (60-29-7)

|                          |                                                                         |
|--------------------------|-------------------------------------------------------------------------|
| LOAEL (oral,rat,90 days) | 2000 mg/kg body weight Animal: rat, Animal sex: male, Guideline: other: |
|--------------------------|-------------------------------------------------------------------------|

|                          |                                                      |
|--------------------------|------------------------------------------------------|
| NOAEL (oral,rat,90 days) | 500 mg/kg body weight Animal: rat, Guideline: other: |
|--------------------------|------------------------------------------------------|

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## Heptane, branched, cyclic and linear (426260-76-6)

LOAEC (inhalation, rat, vapor, 90 days) 16.6 mg/l air Animal: rat, Animal sex: male

NOAEC (inhalation, rat, vapor, 90 days) 3.3 mg/l air Animal: rat, Animal sex: male

## heptane, n-heptane (142-82-5)

LOAEC (inhalation, rat, vapor, 90 days) 16.6 mg/l air Animal: rat, Animal sex: male

NOAEC (inhalation, rat, vapor, 90 days) 3.3 mg/l air Animal: rat, Animal sex: male

Aspiration hazard : May be fatal if swallowed and enters airways.  
Symptoms/effects : May cause drowsiness or dizziness.  
Symptoms/effects after inhalation : None under normal conditions.  
Symptoms/effects after skin contact : Irritation.  
Symptoms/effects after eye contact : None under normal conditions.  
Symptoms/effects after ingestion : Harmful if swallowed. Risk of lung edema.

## SECTION 12 Ecological information

### 12.1. Ecotoxicity

Ecology - general : Toxic to aquatic life. Toxic to aquatic life with long lasting effects.  
Hazardous to the aquatic environment, short-term (acute) : Toxic to aquatic life.  
Hazardous to the aquatic environment, long-term (chronic) : Toxic to aquatic life with long lasting effects.

## diethyl ether, ether (60-29-7)

LC50 - Fish [1] 2560 mg/l Test organisms (species): Pimephales promelas

EC50 72h - Algae [1] > 100 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)

LOEC (chronic) > 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC (chronic) 100 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

## Heptane, branched, cyclic and linear (426260-76-6)

LC50 - Fish [1] 13.4 mg/l (96 hr; Oncorhynchus mykiss; OECD Guideline 203)

EC50 - Crustacea [1] 4.6 – 10 mg/l Read-across; WAF; Daphnia magna

EC50 72h - Algae [1] 29 mg/l Read-across; WAF; Raphidocelis subcapitata

LOEC (chronic) 0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC (chronic) 0.17 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC chronic crustacea 0.17 mg/l Read-across; WAF; Daphnia magna; OECD Guideline 211

NOEC chronic algae 3 mg/l Read-across; WAF; Raphidocelis subcapitata; OECD Guideline 201

## heptane, n-heptane (142-82-5)

LC50 - Fish [1] 3 – 10 mg/l (Weight of Evidence)

EC50 - Crustacea [1] 3 mg/l (Daphnia Magna; WAF)

LOEC (chronic) 0.32 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

NOEC (chronic) 1 – 1.6 mg/l (weight of evidence)

## Carbon dioxide (124-38-9)

LC50 - Fish [1] 35 mg/l Source: HSDB

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according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

## 12.2. Persistence and degradability

| KIMBALL MIDWEST 80-1215 STARTING FLUID             |                        |
|----------------------------------------------------|------------------------|
| Persistence and degradability                      | Not rapidly degradable |
| diethyl ether, ether (60-29-7)                     |                        |
| Persistence and degradability                      | Rapidly degradable     |
| Heptane, branched, cyclic and linear (426260-76-6) |                        |
| Persistence and degradability                      | Not rapidly degradable |
| heptane, n-heptane (142-82-5)                      |                        |
| Persistence and degradability                      | Rapidly degradable     |
| Carbon dioxide (124-38-9)                          |                        |
| Persistence and degradability                      | Not rapidly degradable |

## 12.3. Bioaccumulative potential

No additional information available

## 12.4. Mobility in soil

No additional information available

## 12.5. Other adverse effects

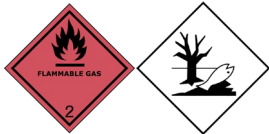
Ozone : Not classified  
Fluorinated greenhouse gases : No

## SECTION 13 Disposal considerations

Regional waste regulation : Disposal must be done according to official regulations.  
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.  
Sewage disposal recommendations : Disposal must be done according to official regulations.  
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.  
Additional information : Do not re-use empty containers.

## SECTION 14 Transport information

In accordance with DOT / IMDG / IATA

| DOT                                                                                 | IMDG                                                                                | IATA                                                                                  |
|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|
| 14.1. UN number                                                                     |                                                                                     |                                                                                       |
| UN1950                                                                              | 1950                                                                                | 1950                                                                                  |
| 14.2. Proper Shipping Name                                                          |                                                                                     |                                                                                       |
| Aerosols (Heptanes; diethyl ether; ether)                                           | AEROSOLS (Heptanes; diethyl ether; ether)                                           | Aerosols, flammable (Heptanes; diethyl ether; ether)                                  |
| 14.3. Transport hazard class(es)                                                    |                                                                                     |                                                                                       |
| 2.1                                                                                 | 2.1                                                                                 | 2.1                                                                                   |
|  |  |  |

# Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

| DOT                                    | IMDG                                                        | IATA                               |
|----------------------------------------|-------------------------------------------------------------|------------------------------------|
| <b>14.4. Packing group</b>             |                                                             |                                    |
| Not applicable                         | Not applicable                                              | Not applicable                     |
| <b>14.5. Environmental hazards</b>     |                                                             |                                    |
| Dangerous for the environment: Yes     | Dangerous for the environment: Yes<br>Marine pollutant: Yes | Dangerous for the environment: Yes |
| No supplementary information available |                                                             |                                    |

## 14.6. Transport in bulk

Not applicable

## 14.7. Special precautions for user

### DOT

UN-No. (DOT) : UN1950  
DOT Packaging Exceptions (49 CFR 173.xxx) : 306  
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 75 kg  
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 150 kg

### IMDG

Limited quantities (IMDG) : SP277  
Excepted quantities (IMDG) : E0

### IATA

PCA Excepted quantities (IATA) : E0  
PCA Limited quantities (IATA) : Y203  
PCA limited quantity max net quantity (IATA) : 30kgG  
PCA max net quantity (IATA) : 75kg

## SECTION 15 Regulatory information

### 15.1. Federal regulations

|                                               |                                             |
|-----------------------------------------------|---------------------------------------------|
| <b>KIMBALL MIDWEST 80-1215 STARTING FLUID</b> |                                             |
| SARA Section 311/312 Hazard Classes           | Refer to SECTION 2 - HAZARDS IDENTIFICATION |

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

|                                       |        |
|---------------------------------------|--------|
| <b>diethyl ether, ether (60-29-7)</b> |        |
| CERCLA RQ                             | 100 lb |

|                                      |                                             |
|--------------------------------------|---------------------------------------------|
| <b>heptane, n-heptane (142-82-5)</b> |                                             |
| SARA Section 311/312 Hazard Classes  | Refer to SECTION 2 - HAZARDS IDENTIFICATION |

# Safety Data Sheet

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

## 15.2. International regulations

No additional information available

## 15.3. State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

## SECTION 16 Other information

according to 29 CFR § 1910.1200, Hazard Communication Standard (HCS)

Issue date : 3/26/2025

| Full text of hazard classes and H-statements |                                                                        |
|----------------------------------------------|------------------------------------------------------------------------|
| Acute Tox. 4 (Oral)                          | Acute toxicity (oral), Category 4                                      |
| Aerosol 1                                    | Aerosol, Category 1                                                    |
| Aquatic Acute 2                              | Hazardous to the aquatic environment — Acute Hazard, Category 2        |
| Aquatic Chronic 2                            | Hazardous to the aquatic environment — Chronic Hazard, Category 2      |
| Asp. Tox. 1                                  | Aspiration hazard, Category 1                                          |
| Flam. Liq. 1                                 | Flammable liquid, Category 1                                           |
| Flam. Liq. 2                                 | Flammable liquid, Category 2                                           |
| Skin Irrit. 2                                | Skin corrosion/irritation, Category 2                                  |
| STOT SE 3                                    | Specific target organ toxicity – Single exposure, Category 3, Narcosis |
| H222                                         | Extremely flammable aerosol                                            |
| H224                                         | Extremely flammable liquid and vapor                                   |
| H225                                         | Highly flammable liquid and vapor                                      |
| H229                                         | Pressurized container; may burst if heated                             |
| H302                                         | Harmful if swallowed                                                   |
| H304                                         | May be fatal if swallowed and enters airways                           |
| H315                                         | Causes skin irritation                                                 |
| H336                                         | May cause drowsiness or dizziness                                      |
| H401                                         | Toxic to aquatic life                                                  |
| H411                                         | Toxic to aquatic life with long lasting effects                        |

The data in this Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material in any process. The information set forth herein is furnished free of charge and is based on technical data that the supplier believes to be reliable. It is intended for use by persons having technical skill and at their own discretion and risk. Since conditions of use are outside of the supplier's control, the supplier makes no warranties, expressed or implied, and assumes no liability in connection with any use of this information. Nothing herein is to be taken as a license to operate under, or a recommendation to infringe upon, any patents.