

# SAFETY DATA SHEET

## 1. Identification

**Product number** 80-1554  
**Product identifier** **FG-MAX FOOD GRADE SILICONE**  
**Company information** KIMBALL MIDWEST  
4800 ROBERTS RD  
COLUMBUS, OH 43228  
**Company phone** 1-800-233-1294  
**Emergency telephone US** 1-800-424-9300 (Chemtrec)  
**Version #** 01  
**Recommended use** Lubricant  
**Recommended restrictions** None known.

## 2. Hazard(s) identification

**Physical hazards** Flammable aerosols Category 1  
Gases under pressure Compressed gas  
**Health hazards** Aspiration hazard Category 1  
**Environmental hazards** Hazardous to the aquatic environment, acute hazard Category 3  
Hazardous to the aquatic environment, long-term hazard Category 3  
**OSHA defined hazards** Not classified.

### Label elements



**Signal word** Danger

**Hazard statement** Extremely flammable aerosol. Contains gas under pressure; may explode if heated. May be fatal if swallowed and enters airways. Harmful to aquatic life. Harmful to aquatic life with long lasting effects.

### Precautionary statement

#### Prevention

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. Avoid release to the environment.

#### Response

If swallowed: Immediately call a poison center/doctor. Do NOT induce vomiting.

#### Storage

Store locked up. Protect from sunlight. Store in a well-ventilated place. Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

#### Disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

**Hazard(s) not otherwise classified (HNOC)** None known.

**Supplemental information** 96.06% of the mixture consists of component(s) of unknown acute hazards to the aquatic environment. 96.06% of the mixture consists of component(s) of unknown long-term hazards to the aquatic environment.

## 3. Composition/information on ingredients

### Mixtures

| Chemical name | Common name and synonyms | CAS number | %       |
|---------------|--------------------------|------------|---------|
| Butane        |                          | 106-97-8   | 40 - 60 |

| Chemical name            | Common name and synonyms | CAS number | %        |
|--------------------------|--------------------------|------------|----------|
| Propane                  |                          | 74-98-6    | 20 - 40  |
| Odorless Mineral Spirits |                          | 64741-65-7 | 10 - 20  |
| Polydimethylsiloxane     |                          | 63148-62-9 | 2.5 - 10 |

\*Designates that a specific chemical identity and/or percentage of composition has been withheld as a trade secret.

#### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | If symptoms develop move victim to fresh air. Get medical attention if symptoms persist.                               |
| <b>Skin contact</b>   | Wash off with soap and water. Get medical attention if irritation develops and persists.                               |
| <b>Eye contact</b>  | Rinse with water. Get medical attention if irritation develops and persists.   |
| <b>Ingestion</b>  | Rinse mouth. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | Aspiration may cause pulmonary edema and pneumonitis.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Keep victim under observation. Symptoms may be delayed. |
| <b>General information</b>  | Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves.       |

#### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Alcohol resistant foam. Water spray. Water fog. Dry chemical powder. Carbon dioxide (CO2).  |
| <b>Unsuitable extinguishing media</b>                                | None known.   |
| <b>Specific hazards arising from the chemical</b>                    | Contents under pressure. Pressurized container may explode when exposed to heat or flame.   |
| <b>Special protective equipment and precautions for firefighters</b> | Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA.  |
| <b>Fire-fighting equipment/instructions</b>                          | In case of fire: Stop leak if safe to do so. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do so without risk. Containers should be cooled with water to prevent vapor pressure build up. For massive fire in cargo area, use unmanned hose holder or monitor nozzles, if possible. If not, withdraw and let fire burn out. |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Cool containers exposed to flames with water until well after the fire is out. In the event of fire and/or explosion do not breathe fumes.   |
| <b>General fire hazards</b>  | Extremely flammable aerosol.  |

#### 6. Accidental release measures

|  |  |
|--|--|
| <b>Personal precautions, protective equipment and emergency procedures</b> | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate protective equipment and clothing during clean-up. Emergency personnel need self-contained breathing equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them. Local authorities should be advised if significant spillages cannot be contained. For personal protection, see section 8 of the SDS.  |
| <b>Methods and materials for containment and cleaning up</b>               | Refer to attached safety data sheets and/or instructions for use. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Stop leak if you can do so without risk. Move the cylinder to a safe and open area if the leak is irreparable. Use water spray to reduce vapors or divert vapor cloud drift. Isolate area until gas has dispersed. Prevent entry into waterways, sewer, basements or confined areas. For waste disposal, see section 13 of the SDS. |
| <b>Environmental precautions</b>   | Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.   |

## 7. Handling and storage

### Precautions for safe handling

Pressurized container: Do not pierce or burn, even after use. Do not use if spray button is missing or defective. Do not spray on a naked flame or any other incandescent material. Do not smoke while using or until sprayed surface is thoroughly dry. Do not cut, weld, solder, drill, grind, or expose containers to heat, flame, sparks, or other sources of ignition. All equipment used when handling the product must be grounded. Do not re-use empty containers. Use only in well-ventilated areas. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Level 3 Aerosol.

Store locked up. Pressurized container. Protect from sunlight and do not expose to temperatures exceeding 50°C/122 °F. Do not puncture, incinerate or crush. Do not handle or store near an open flame, heat or other sources of ignition. This material can accumulate static charge which may cause spark and become an ignition source. Store in a well-ventilated place. Refrigeration recommended. Store away from incompatible materials (see Section 10 of the SDS). Level 3 Aerosol.

## 8. Exposure controls/personal protection

### Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components            | Type | Value                  |
|-----------------------|------|------------------------|
| Propane (CAS 74-98-6) | PEL  | 1800 mg/m3<br>1000 ppm |

#### US. ACGIH Threshold Limit Values

| Components            | Type | Value    |
|-----------------------|------|----------|
| Butane (CAS 106-97-8) | STEL | 1000 ppm |

#### US. NIOSH: Pocket Guide to Chemical Hazards

| Components            | Type | Value                  |
|-----------------------|------|------------------------|
| Butane (CAS 106-97-8) | TWA  | 1900 mg/m3<br>800 ppm  |
| Propane (CAS 74-98-6) | TWA  | 1800 mg/m3<br>1000 ppm |

### Biological limit values

No biological exposure limits noted for the ingredient(s).

### Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

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

|                        |   |
|------------------------|---|
| Eye/face protection    | Face shield is recommended. Wear safety glasses with side shields (or goggles).   |
| Hand protection        | Wear appropriate chemical resistant gloves.   |
| Skin protection        |   |
| Other                  | Wear suitable protective clothing.  |
| Respiratory protection | If permissible levels are exceeded use NIOSH mechanical filter / organic vapor cartridge or an air-supplied respirator. |
| Thermal hazards        | Wear appropriate thermal protective clothing, when necessary.   |

### General hygiene considerations

When using do not smoke. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

## 9. Physical and chemical properties

|                |                          |
|----------------|--------------------------|
| Appearance     | Clear.                   |
| Physical state | Gas.                     |
| Form           | Aerosol. Compressed gas. |
| Color          | Colorless.               |
| Odor           | Solvent.                 |
| Odor threshold | Not available.           |

|   |  |
|---|--|
| <b>pH</b>   | Not available.                             |
| <b>Melting point/freezing point</b>                 | Not available.                             |
| <b>Initial boiling point and boiling range</b>      | 62.4 °F (16.89 °C) estimated               |
| <b>Flash point</b>                                  | -156.0 °F (-104.4 °C) Propellant estimated |
| <b>Evaporation rate</b>                             | Not available.                             |
| <b>Flammability (solid, gas)</b>                    | Not available.                             |
| <b>Upper/lower flammability or explosive limits</b> |  |
| <b>Flammability limit - lower (%)</b>               | 1 % estimated                              |
| <b>Flammability limit - upper (%)</b>               | 7 % estimated                              |
| <b>Explosive limit - lower (%)</b>                  | Not available.                             |
| <b>Explosive limit - upper (%)</b>                  | Not available.                             |
| <b>Vapor pressure</b>                               | 60 - 70 psig @70F estimated                |
| <b>Vapor density</b>                                | Not available.                             |
| <b>Relative density</b>                             | 0.513 g/cm3 estimated                      |
| <b>Solubility(ies)</b>                              |  |
| <b>Solubility (water)</b>                           | Not available.                             |
| <b>Partition coefficient (n-octanol/water)</b>      | Not available.                             |
| <b>Auto-ignition temperature</b>                    | 658 °F (347.78 °C) estimated               |
| <b>Decomposition temperature</b>                    | Not available.                             |
| <b>Viscosity</b>                                    | Not available.                             |
| <b>Other information</b>                            |  |
| <b>Density</b>                                      | 0.51 g/cm3 estimated                       |
| <b>Flammability class</b>                           | Flammable IA estimated                     |
| <b>Heat of combustion (NFPA 30B)</b>                | 41.44 kJ/g estimated                       |
| <b>Percent volatile</b>                             | 80.84 % estimated                          |
| <b>Specific gravity</b>                             | 0.513 estimated                            |

## 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport. |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.   |
| <b>Possibility of hazardous reactions</b> | Hazardous polymerization does not occur.  |
| <b>Conditions to avoid</b>                | Avoid temperatures exceeding the flash point. Contact with incompatible materials.            |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Nitrates. Fluorine. Chlorine.  |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known.  |

## 11. Toxicological information

### Information on likely routes of exposure

|   |  |
|---|--|
| <b>Ingestion</b>  | Droplets of the product aspirated into the lungs through ingestion or vomiting may cause a serious chemical pneumonia. |
| <b>Inhalation</b>   | No adverse effects due to inhalation are expected.   |
| <b>Skin contact</b>   | No adverse effects due to skin contact are expected.   |
| <b>Eye contact</b>  | Direct contact with eyes may cause temporary irritation.   |
| <b>Symptoms related to the physical, chemical and toxicological characteristics</b> | Aspiration may cause pulmonary edema and pneumonitis.  |

### Information on toxicological effects

**Acute toxicity** May be fatal if swallowed and enters airways.

| Product  | Species | Test Results                          |
|--|---------|---------------------------------------|
| 11 OZ FG-MAX FOOD GRADE SILICONE LB 12PK (CAS Mixture) |         |                                       |
| <b>Acute</b>   |         |                                       |
| <i>Dermal</i>  |         |                                       |
| LD50   | Rat     | 14738.5498 mg/kg estimated            |
| <i>Inhalation</i>                                      |         |                                       |
| LC100  | Cat     | 111.3255 % estimated                  |
| LC50   | Mouse   | 1530.1074 mg/l, 120 Minutes estimated |
|  |         | 64.3214 %, 120 Minutes estimated      |
|  |         | 19.7912 mm/l, 2 Hours estimated       |
|  | Rat     | 16108.8018 ppm, 4 Hours estimated     |
|  |         | 1676.0675 mg/l estimated              |
|  |         | 813.9132 mg/l/4h estimated            |

| Components            | Species | Test Results           |
|-----------------------|---------|------------------------|
| Butane (CAS 106-97-8) |         |                        |
| <b>Acute</b>          |         |                        |
| <i>Inhalation</i>     |         |                        |
| LC50                  | Mouse   | 1237 mg/l, 120 Minutes |
|                       |         | 52 %, 120 Minutes      |
|                       | Rat     | 1355 mg/l              |
| Propane (CAS 74-98-6) |         |                        |
| <b>Acute</b>          |         |                        |
| <i>Inhalation</i>     |         |                        |
| LC50                  | Mouse   | 1237 mg/l, 120 Minutes |
|                       |         | 52 %, 120 Minutes      |
|                       | Rat     | 1355 mg/l              |
|                       |         | 658 mg/l/4h            |

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Prolonged skin contact may cause temporary irritation.

**Serious eye damage/eye irritation** Direct contact with eyes may cause temporary irritation.

**Respiratory or skin sensitization**

**Respiratory sensitization** Not available.

**Skin sensitization** This product is not expected to cause skin sensitization.

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Reproductive toxicity** This product is not expected to cause reproductive or developmental effects.

**Specific target organ toxicity - single exposure** Not classified.

**Specific target organ toxicity - repeated exposure** Not classified.

**Aspiration hazard** May be fatal if swallowed and enters airways.

**12. Ecological information**

**Ecotoxicity** Harmful to aquatic life with long lasting effects.

| Product  | Species |                                       | Test Results                      |
|--|---------|---------------------------------------|-----------------------------------|
| 11 OZ FG-MAX FOOD GRADE SILICONE LB 12PK (CAS Mixture) |         |                                       |                                   |
| Aquatic  |         |                                       |                                   |
| Fish   | LC50    | Fish                                  | 363.4725 mg/l, 96 hours estimated |
| Components   | Species |                                       | Test Results                      |
| Odorless Mineral Spirits (CAS 64741-65-7)              |         |                                       |                                   |
| Aquatic  |         |                                       |                                   |
| Algae  | IC50    | Algae                                 | 30000 mg/L, 72 Hours              |
| Polydimethylsiloxane (CAS 63148-62-9)                  |         |                                       |                                   |
| Aquatic  |         |                                       |                                   |
| Fish   | LC50    | Channel catfish (Ictalurus punctatus) | 2.36 - 4.15 mg/l, 96 hours        |

\* Estimates for product may be based on additional component data not shown.

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available.

**Partition coefficient n-octanol / water (log Kow)**

Butane 2.89

Propane 2.36

**Mobility in soil** No data available.

**Other adverse effects** No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

### 13. Disposal considerations

**Disposal instructions** Consult authorities before disposal. Contents under pressure. Do not puncture, incinerate or crush. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

**Local disposal regulations** Dispose in accordance with all applicable regulations.

**Hazardous waste code** The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

**Waste from residues / unused products** Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Do not re-use empty containers.

### 14. Transport information

#### DOT

**UN number** UN1950

**UN proper shipping name** Aerosols, flammable

**Transport hazard class(es)**

**Class** 2.1

**Subsidiary risk** -

**Label(s)** 2.1

**Packing group** Not applicable.

**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.

**Special provisions** N82

**Packaging exceptions** 306

**Packaging non bulk** None

**Packaging bulk** None

This product meets the exception requirements of section 173.306 as a limited quantity and may be shipped as a limited quantity. Until 12/31/2020, the "Consumer Commodity - ORM-D" marking may still be used in place of the new limited quantity diamond mark for packages of UN 1950 Aerosols. Limited quantities require the limited quantity diamond mark on cartons after 12/31/20 and may be used now in place of the "Consumer Commodity ORM-D" marking and both may be displayed concurrently.

#### IATA

**UN number** UN1950

**UN proper shipping name** Aerosols, flammable

**Transport hazard class(es)****Class** 2.1**Subsidiary risk** -**Label(s)** 2.1**Packing group** Not applicable.**Environmental hazards** No.**ERG Code** 10L**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.**Other information****Passenger and cargo aircraft** Allowed.**Cargo aircraft only** Allowed.**Packaging Exceptions** LTD QTY**IMDG****UN number** UN1950**UN proper shipping name** AEROSOLS**Transport hazard class(es)****Class** 2.1**Subsidiary risk** -**Label(s)** None**Packing group** Not applicable.**Environmental hazards****Marine pollutant** No.**EmS** F-D, S-U**Special precautions for user** Read safety instructions, SDS and emergency procedures before handling. Read safety instructions, SDS and emergency procedures before handling.**Packaging Exceptions** LTD QTY**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code** Not applicable.**DOT****IATA; IMDG****15. Regulatory information****US federal regulations**

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

Not regulated.

**CERCLA Hazardous Substance List (40 CFR 302.4)**

Not listed.

**SARA 304 Emergency release notification**

Not regulated.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)**

Not listed.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

|                          |                        |
|--------------------------|------------------------|
| <b>Hazard categories</b> | Immediate Hazard - Yes |
|                          | Delayed Hazard - No    |
|                          | Fire Hazard - Yes      |
|                          | Pressure Hazard - Yes  |
|                          | Reactivity Hazard - No |

**SARA 302 Extremely hazardous substance**

Not listed.

|  |    |
|--|----|
| <b>SARA 311/312 Hazardous chemical</b> | No |
|--|----|

**SARA 313 (TRI reporting)**

Not regulated.

**Other federal regulations****Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**

Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

|                                       |                |
|---------------------------------------|----------------|
| <b>Safe Drinking Water Act (SDWA)</b> | Not regulated. |
|---------------------------------------|----------------|

**US state regulations****US. Massachusetts RTK - Substance List**

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

**US. New Jersey Worker and Community Right-to-Know Act**

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

**US. Pennsylvania Worker and Community Right-to-Know Law**

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

**US. Rhode Island RTK**

Butane (CAS 106-97-8)

Propane (CAS 74-98-6)

**US. California Proposition 65**

California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

**International Inventories**

| Country(s) or region | Inventory name   | On inventory (yes/no)* |
|----------------------|--|------------------------|
| Australia            | Australian Inventory of Chemical Substances (AICS)                     | Yes                    |
| Canada               | Domestic Substances List (DSL)   | Yes                    |
| Canada               | Non-Domestic Substances List (NDSL)                                    | No                     |
| China                | Inventory of Existing Chemical Substances in China (IECSC)             | Yes                    |
| Europe               | European Inventory of Existing Commercial Chemical Substances (EINECS) | Yes                    |
| Europe               | European List of Notified Chemical Substances (ELINCS)                 | No                     |
| Japan                | Inventory of Existing and New Chemical Substances (ENCS)               | Yes                    |
| Korea                | Existing Chemicals List (ECL)  | Yes                    |
| New Zealand          | New Zealand Inventory  | Yes                    |
| Philippines          | Philippine Inventory of Chemicals and Chemical Substances (PICCS)      | Yes                    |

|                             |   |                               |
|-----------------------------|---|-------------------------------|
| <b>Country(s) or region</b> | <b>Inventory name</b>                         | <b>On inventory (yes/no)*</b> |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes                           |

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

## 16. Other information, including date of preparation or last revision

**Issue date** 08-29-2014

**Version #** 01

**Disclaimer** Plaze cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user's responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available. The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.