

PRODUKTINFORMATIONEN

FOODLUBE SUGAR DISSOLVING FLUID

LPS® FOODLUBE Sugar Dissolving Fluid is a food grade lubricating release agent that rapidly dissolves and removes sugars from application surfaces to ensure components remain fully operational. It leaves a light, durable film on the surface to protect against corrosion and resist further sugar build up.

FOODLUBE Sugar Dissolving Fluid is NSF® H1 registered for incidental contact with food making it ideal for use in food and beverage industries with stringent hygiene standards.



* Only applicable for trigger and 1 gal sizes



FEATURES

- Rapidly dissolves and removes sugars and fondants from applications commonly found in food and beverage facilities.
- Leaves a light, durable lubricating film on the surface to prevent new accumulations of sugar.
- Provides short term corrosion protection on exposed metal surfaces.

FOODLUBE Sugar Dissolving Fluid offers a wide temperature resistance of 41°F to 203°F (+5°C to +95°C).

- NSF® Registered H1.
- Metal & x-ray detectable plastic components (see back for more details)

SPECIFICATIONS AND APPROVALS

Approved/Qualified to:

- FOODLUBE Sugar Dissolving Fluid is manufactured from only FDA listed ingredients: FDA Group 21 CFR 178.3570
- NSF- H1 Registration # 147495 (aerosol)
- NSF- H1 Registration # 147492 (bulk)

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PACKAGE SIZES

Net Contents

15 wt.oz. / 425 g/ 427 mL aerosol
 28 fl.oz (828 mL) trigger spray
 1 gal. (3.78 L)

Part No.

57716
 57728
 57701

APPLICATIONS

- Animal feed sugar residue
- Chains on flow wrapping equipment
- Conveyors
- Cutters or blades
- Sugar build-up on fasteners
- Sugar packaging lines
- Sugar processing lines
- Weighting plates

PROPERTIES

| | |
|----------------------------|---|
| Appearance/Physical State | Liquid |
| Odor | Mild |
| Specific Gravity (water=1) | 1.00 - 1.10 @ 20°C Aerosol: 4% |
| VOC Content | Bulk: Not Applicable |
| Color | Colorless Aerosol: -118°C (-180°F) TCC |
| Flash Point °F (°C) | propellant Bulk: >302°F (> 150°C) |
| Chemical Base | Water/Polymer Solution |
| pH | 9.0 – 10.0 |

pH

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METAL & X-RAY DETECTABLE PLASTIC COMPONENTS (PATENT PENDING)

LPS® is a leading food-grade MRO chemical manufacturer that developed the innovative technology, DETEX™, to help reduce the risk of foreign object contamination during food and beverage processing. All DETEX™ components on LPS® food industry products are metal and x-ray detectable.

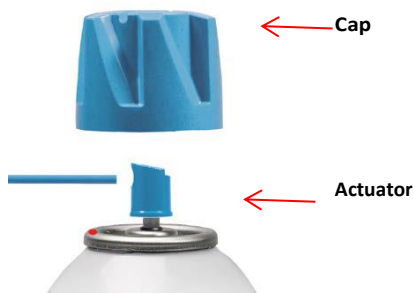


Scan to see DETEX™ in action!

| FEATURES | BENEFITS |
|---|---|
| All plastic components are metal and x-ray detectable and are capable of detection by most metal detection equipment. | Reduce concerns of food product contamination and assist with HACCP requirements. |
| All DETEX™ plastic component ingredients are GRAS listed (Generally Recognized As Safe - FDA 21 C.F.R. Sections 177 and 178). | Meets FDA requirements as an acceptable material for use in food processing plants. |
| LPS® food safe maintenance chemicals have prominently displayed NSF-category labeling. This ensures only food safe products are used for maintenance during processing. | Distinct labeling helps to prevent use of non NSF-approved LPS® products in the food processing area. |
| Aerosol can is in compliance with the Food Safety Net Services (FSNS). FDA 21 C.F.R.175.300, 1935/2004/EC. | Aerosol can does not contain: Heavy metals, BADGE, BFDGE, NOGE, and Bisphenol-A (BPA). |

Universal blue color for all metal and x-ray detectable plastic components easily identifies them as a non-food object.

AEROSOL



ADDITIONAL AEROSOL FEATURES:

- Certified food safe container
- Dual language labeling: English and Spanish
- 2-piece aerosol can; 10% – 15% lighter than a 3-piece aerosol can

| COMPONENT | DRY MODE | WET MODE |
|-----------|----------|----------|
| Actuator | 2.2 mm | 2.5 mm |
| Cap | 3.0 mm | > 3.0 mm |

GALLON CAP



ADDITIONAL GALLON CAP FEATURES

- Metal detectable dual language labeling on container: English and Spanish
- Label adhesive compliant with FDA 175.105

| COMPONENT | DRY MODE | WET MODE |
|-------------------|----------|----------|
| Cap + Metal Liner | > 3.0 mm | > 3.0 mm |
| Cap Only | > 3.0 mm | > 3.0 mm |
| Liner Only | > 3.0 mm | > 3.0 mm |

TRIGGER SPRAYER



ADDITIONAL TRIGGER SPRAYER FEATURES:

- Adjustable spray stream to ensure proper application
- Ergonomic, 3 finger trigger to reduce finger fatigue
- Chemically resistant trigger
- Metal detectable dual language label on container: English and Spanish
- Label adhesive compliant with FDA 175.105

| COMPONENT | DRY MODE | WET MODE |
|-----------------|----------|----------|
| Whole Sprayer * | > 3.0 mm | > 3.0 mm |
| Body | > 3.0 mm | > 3.0 mm |
| Trigger | > 3.0 mm | > 3.0 mm |
| Closure | > 3.0 mm | > 3.0 mm |
| Metal Pin | 2.5 mm | > 3.0 mm |
| Nozzle | 2.5 mm | > 3.0 mm |
| Piston | 2.0 mm | 2.5 mm |

* Internal trigger components are not manufactured with DETEX™ technology and may not be metal or x-ray detectable.

NOTE

1. *Detection limits for a particular machine depend on a variety of factors including line speed, contaminant placement and orientation, iron fortification (i.e.; flour), wet mode vs. dry mode, fragment size, aperture size, etc. It is the responsibility of the end-user to determine the detection limits of the appropriate DETEX™ component for the individual line set up and for the particular food product being inspected.*
2. *Metal and x-ray detection limits for plastic components (above) are based on whole components. Partial components may not be detectable due to detector limitations, partial component size, malfunctioning equipment and/or the type of food product undergoing processing.*
3. *LPS® Laboratories recommends that all components be tested prior to implementation (separately and included in the processed food product) and/or consult your specific metal detector equipment manufacturer directly.*
4. *Product shelf life, warranty, and material safety data sheets are available at www.lpslabs.com. LPS® Laboratories is not responsible for use of this product inconsistent with its instructions and warnings.*
5. *LPS® Laboratories is not responsible for failure to detect components due to detector limitations and/or detector malfunctions. Refer to the metal detector manufacturer's design limitations, instructions, and warnings regarding the use, limitations, and proper maintenance of the equipment.*

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MATERIAL SAFETY DATA SHEET LPS® FOODLUBE Sugar Dissolving Fluid (Aerosol)

Section 1 • Product and Company Identification

| | |
|------------------------|--|
| Product Name: | LPS® FOODLUBE Sugar Dissolving Fluid (Aerosol) |
| Part Number(s): | 57716 |
| Chemical Name: | Water / Polymer Solution |
| Product Use: | A sugar dissolving solution |

Section 2 • Hazards Identification

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

| GHS Hazard Level | GHS Hazard Level | Hazard Statement |
|-----------------------------|------------------|-------------------------------------|
| Flammable Aerosols | 2 | H223 - Flammable aerosol. |
| Skin Corrosion / Irritation | 3 | H316 - Causes mild skin irritation. |

DANGER

GHS Symbols:



| | |
|------------|--|
| 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 of burn, even after use. Protect from sunlight. Do not expose to temperatures exceeding 50 oC/ 122 oF. Wash hands thoroughly after handling. [P210, P211, P251, P410, P412, P264] |
| Response | IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice / attention. Take off contaminated clothing and wash before reuse. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF SWALLOWED: Immediately call a POISON CENTER or a doctor / physician. Rinse mouth. Do not induce vomiting. [P302, P352, P332, P313, P362, P305, P351, P338, P304, P340, P301, P310, P330, P331] |
| Storage | Protect from sunlight, store in a well-ventilated place and do not expose to temperatures exceeding 50oC/ 122oF. [P410, P403, P412] |

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Disposal Dispose of contents/container in accordance with local / regional / national regulations. [P501]

Potential Chronic Health Effects:

Carcinogenic Effects: NTP: No IARC: No OSHA: No ACGIH: No

Mutagenic Effects: None

Teratogenic Effects: None

Target Organs: None

Medical conditions aggravated by exposure:

Persons with pre-existing central nervous system (CNS) disease, neurological conditions, skin disorders, chronic respiratory diseases, or impaired liver or kidney function should avoid exposure.

Signs and Symptoms

Stinging in eyes. Repeated or prolonged skin contact can cause redness, irritation, and scaling of the skin (dermatitis). Breathing of high vapor concentrations may cause headaches, stupor, irritation of throat and eyes, and kidney effects.

Section 3 • Composition / Information on Ingredients

| <i>Component</i> | <i>CASRN</i> | <i>Weight Percent</i> |
|-----------------------------------|--------------|-----------------------|
| Liquified Petroleum Gas | 68476-86-8 | 2 - 3% |
| Sorbitan monolaurate, ethoxylated | 9005-64-5 | 1 - 2% |

Section 4 • First Aid Measures

- Eyes:** Check for and remove contact lenses. If irritation or redness develops, flush eyes with cool, clean, low pressure water for at least 15 minutes. Hold eyelids apart to ensure complete irrigation of the eye and eyelid tissue. DO NOT use eye ointment. Seek medical attention immediately.
- Skin:** Remove contaminated shoes and clothing. Clean affected area thoroughly with mild soap and water. DO NOT use ointments. Seek medical attention if irritation persists.
- Inhalation:** Immediately move victim to fresh air. If victim is not breathing, immediately begin rescue breathing. If heart has stopped, immediately begin cardiopulmonary resuscitation (CPR). If breathing is difficult, seek medical attention immediately.
- Ingestion:** DO NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If spontaneous vomiting is about to occur, place victim's head below knees. If victim is drowsy or unconscious, place on the left side with head down. DO NOT leave victim unattended. Seek medical attention immediately.

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Section 5 • Fire Fighting Measures

| | |
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| Products of Combustion: | Carbon monoxide and carbon dioxide. |
| General Fire Hazards: | Do not use on energized equipment. High heat will cause product to boil, evolving vapor that could cause explosive rupture of closed containers. |
| Firefighting media: | SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use CO ₂ , water spray, fog or foam. Cool containing vessels with water jet in order to prevent pressure build-up, auto-ignition or explosions. |
| Sensitivity to Impact: | None |
| Sensitivity to Static Discharge: | Yes |
| Protection Clothing (Fire): | Firefighters must use full bunker gear including NIOSH-approved positive pressure self-contained breathing apparatus to protect against potential hazardous combustion or decomposition products and oxygen deficiencies. Evacuate area and fight the fire from a maximum distance or use unmanned hose holders or monitor nozzles. |
| Special Remarks on Explosion Hazards: | Aerosols may explode upon heating, spread fire and overcome sprinkler systems. |

Section 6 • Accidental Release Measures

| | | |
|--------------------------------|--|---|
| Containment Procedures: | Small Spill and Leak: | Eliminate ignition sources. Absorb with an inert material and dispose of properly. |
| | Large Spill and Leak: | Eliminate ignition sources. Secure the area and control access. Dike far ahead of a liquid spill to ensure complete collection. Pick up free liquid for disposal using absorbent pads, sand, or other inert non-combustible absorbent materials. Place into appropriate waste containers for later disposal |
| Clean-Up Procedures: | Recover free product and place in a suitable container for disposal. | |
| Evacuation Procedures: | Ventilate area of leak or spill. Keep unnecessary and unprotected people away. | |
| Special Procedures: | Remove all sources of ignition. Ventilate area. Wear personal protective equipment during cleanup. | |

Section 7 • Handling and Storage

| | |
|---|--|
| Handling: | DO NOT spray into or around ignition sources. After handling, always wash hands thoroughly with soap and water. Use only with adequate ventilation. Avoid breathing vapors or spray mists. |
| Storage: | Keep container closed and in a cool, well-ventilated area. Avoid all sources of ignition (spark or flame). Store below 120°F (49°C). |
| Precautions to be taken in handling and storage: | Store aerosols as Level 1 Aerosol (NFPA 30B). Store all materials in a dry, well-ventilated area. Avoid breathing vapors. |

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Section 8 • Exposure Controls / Personal Protection

Exposure Guidelines:

| Component | CASRN | OSHA | ACGIH | NIOSH | Supplier |
|-----------------------------------|------------|---------------------------------------|---|---|-----------------|
| Sorbitan monolaurate, ethoxylated | 9005-64-5 | 5 mg/m ³ (oil mist) PEL | 5 mg/m ³ (oil mist) TLV | 5 mg/m ³ (oil mist) TLV | Not established |
| | | | 10 mg/m ³ (oil mist) STEL | 10 mg/m ³ (oil mist) STEL | |
| Liquified Petroleum Gas | 68476-86-8 | 1000 ppm PEL | 1000 ppm TLV | 1000 ppm TWA | None reported |

Engineering Controls: Provide general and/or local exhaust ventilation to keep exposures below the exposure guidelines listed above.

Personal protective equipment

Eye protection: Safety glasses with side shields conforming to appropriate regulations. Eye wash fountain and emergency shower facilities are recommended.

Hand protection: Normally no hand protection is required; however, if product will be sprayed for an extended period, "overspray" onto skin may occur. If so, wear chemical resistant gloves conforming to appropriate regulations. Please observe the instructions regarding permeability and breakthrough time that are provided by the supplier of the gloves.

Respiratory protection: Typical use of this product under normal conditions does not require the use of respiratory protection. If airborne concentrations are above the applicable exposure limits (listed above), use NIOSH approved respiratory protection (i.e. organic vapor cartridge).

General Hygiene Considerations: Wash thoroughly after handling. Have eye-wash facilities immediately available.

Section 9 • Physical and Chemical Properties

| | | | |
|--|-------------------|--|------------------------------|
| Appearance: | Liquid | Color: | Clear, colorless |
| Odor: | Mild / None | Evaporation Rate: | 1 (H ₂ O = 1) |
| Solubility Description: | Soluble in water | Flash Point: | -118°C (-180°F) - propellant |
| Initial boiling point and Boiling range | >100°C (212°F) | Flash Point Method: | Tag-Closed Cup |
| Specific Gravity (H₂O=1) | 1.00-1.10 @ 20°C | Decomposition Temperature: | Not established |
| Vapor Density (air=1): | >1 | Auto ignition temperature: | Not established |
| Vapor Pressure: | <1.00 mm Hg @20°C | Flammable limits (estimated): | LOWER: N.E. UPPER: N.E. |
| Rule 1171 PPC: | Not applicable | Partition Coefficient (octanol/water) | <1 |

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| | | | |
|----------------------------|--|------------------------|-----------------|
| V.O.C. Content: | Aerosol: 4% Bulk: Not applicable | Odor Threshold: | Not established |
| Melting Point: | Not established | Viscosity: | Not established |
| pH: | 9.0 – 10.0 | Volatiles: | >80% |
| Heat of combustion: | Aerosol: Not applicable Bulk: Not established | | |

Section 10 • Stability and Reactivity

| | |
|----------------------------------|--|
| Chemical Stability: | Product is stable under recommended storage conditions. |
| Conditions to Avoid: | Keep away from heat and ignition sources. Avoid exposure to direct sunlight for extended periods and temperatures in excess of 122°F (50°C). |
| Incompatibility: | Extremely reactive or incompatible with oxidizing agents. |
| Hazardous Decomposition: | Combustion will generate smoke, possibly thick and choking, resulting in zero visibility and combustion products include carbon monoxide and carbon dioxide. |
| Hazardous Polymerization: | Will not occur. |

Section 11 • Toxicological Information

Acute and Chronic Toxicity

A: General Product Information

An acute toxicity study of this product has not been conducted. Information given in this section relates only to individual constituents contained in this preparation.

B: Component Analysis

| Component | CASRN | LC-50 | LD-50 |
|-----------------------------------|------------|------------------------|----------------------------|
| Sorbitan monolaurate, ethoxylated | 9005-64-5 | Not established | > 5000 mg/kg / oral / rat |
| | | | 3000 mg/ kg/ skin / rabbit |
| Liquified Petroleum Gas | 68476-86-8 | 658 mg/L / rat / 4 hr* | Not appropriate |

- Supplier Data

Section 12 • Ecological Information

| | |
|-------------------------------------|---|
| Mobility: | Non-volatile. Absorbed only slowly into soil. |
| Persistence / Degradability: | Only slightly biodegradable |
| Bioaccumulative potential: | No bioaccumulation potential |
| Other adverse effects: | See below |

The mixture is not classified as environmentally toxic.

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Ecotoxicity

| Effects on Organisms | Component | CASRN | Test | Species | Results |
|----------------------------|-----------------------------------|-----------|------------|-------------------|------------|
| Acute Toxicity on Fishes | Sorbitan monolaurate, ethoxylated | 9005-64-5 | 96-hr LC50 | Leuciscus idus | 340 mg/L |
| Acute Toxicity on Daphnia | Sorbitan monolaurate, ethoxylated | 9005-64-5 | 48-hr EC50 | Daphnia magna | > 10 mg/L* |
| Bacterial Inhibition | No data available | | | | |
| Growth inhibition of algae | Sorbitan monolaurate, ethoxylated | 9005-64-5 | 48-hr EC50 | Unspecified Algae | 100 mg/L |
| Bioaccumulation in fish | No data available | | | | |

* Supplier Data

Section 13 • Disposal Considerations

Waste Status: Aerosol cans, if depressurized and emptied to less than 1 inch (2.54 cm) of fluid contents, are classified as non-hazardous waste under 40 CFR 261.7 (U.S.). If disposed of in its received form, the aerosol product carries the waste codes D001 and D003 (U.S.).

Disposal: Waste must be disposed of in accordance with any and all applicable environmental control rules and/or regulations.

Note: Chemical additions to, processing of, or otherwise altering this material may make this waste management information inaccurate, incomplete, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive than federal laws and regulations.

Section 14 • Transport Information

| | | | | |
|---------------------|------------------------------|-----------------------|-----------------------------|----------|
| D.O.T. Ground | Shipping Name: | Aerosols | UN No.: | 1950 |
| | Hazard Class: | 2.1 | Technical Name: | NA |
| | Subclass: | NA | Hazard Label: | LTD QTY |
| | Packing Group: | NA | | |
| Road/Rail - ADR/RID | UN No.: | 1950 | ADR Class: | 2 |
| | Packing Group: | NA | Classification Code: | 5F |
| | Name and description: | AEROSOLS, flammable | Hazard ID No.: | NA |
| | Labeling: | 2.1 | Technical Name: | NA |
| IMDG-IMO | UN No.: | 1950 | Class: | 2 |
| | Shipping Name: | Aerosols | Subsidiary Risk: | 2.1 |
| | Labeling: | 2 | Packing Group: | NA |
| | Packing Instructions: | P003, LP02 | EmS: | F-D, S-U |
| IATA - ICAO: | UN No.: | 1950 | Class: | 2.1 |
| | Shipping Name: | Aerosols, flammable | Subclass: | NA |
| | Packing Instructions: | 203, Y203 (Ltd. Qty.) | Packing Group: | NA |
| | Labeling: | Flammable Gas | Technical Name: | NA |

The preceding information is subject to change and must be verified prior to shipment. It is the responsibility of anyone offering hazardous materials for shipment to ensure compliance with all applicable regulations.

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Section 15 • Regulatory Information**U.S. Federal Regulations**

RCRA Hazardous Waste No.: D001, D003

Comprehensive Environmental Response, Compensation and Liability Act of 1980 (CERCLA):

None

Toxic Substances Control Act (TSCA):

All components of this product are TSCA inventory listed and/or are exempt.

Superfund Amendments and Reauthorization Act (SARA) Title III SARA Section 311/312 (40 CFR 370) Hazard Categories:

Sudden Release of Pressure, Fire Hazard, Immediate (Acute) Health Hazard

This product contains the following toxic chemical(s) subject to reporting requirements of SARA Section 313 (40 CFR 372):

None

State Regulations**California:**

This product does not contain chemical(s) known to the State of California to cause cancer, birth defects or other reproductive harm.

California and OTC States:

This product conforms to consumer product regulations.

Bulk: Not applicable

International Regulations

Montreal Protocol listed ingredients: None


Stockholm Convention listed ingredients: None

Rotterdam Convention listed ingredients: None

RoHS Compliant: Yes

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Section 16 • Other Information

| | | | | |
|---|--------------------------|-------|--|--|
| MSDS#: 157716 MSDS Preparation Responsible Name: Elena Badiuzzi Compliance Manager Telephone: +1 770 243-8800 | HMIS III | | NFPA | |
| | Health: | | Flammability | |
| | | [] 1 | Health  Reactivity Special | |
| | Flammability Aerosol: | 2 | | |
| Flammability Bulk: | NA | | | |
| | Physical Hazard Aerosol: | 2 | | |
| | Physical Hazard Bulk: | NA | | |

Notice to Reader:

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.