





SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1711	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	NON-CONDUCTIVE LUBE	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Dielectric Silicone Grease	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200). Gases under pressure - Liquefied gas Skin corrosion/irritation - Category 2 Serious eye damage/eye irritation - Category 2 Specific target organ toxicity (single exposure)(respiratory tract irritation): Category 2 Aquatic Hazard (acute): Category 3	SIGNAL WORD: WARNING	SYMBOL:		
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HAZARD STATEMENTS:

Contains gas under pressure; may explode if heated.

Causes serious eye irritation.

Causes skin irritation.

May cause respiratory irritation.

Harmful to aquatic life.

General:

Read label before use

Keep out of reach of children.

If medical advice is needed, have product container or label at hand.

Prevention:

Wear protective gloves.

Wear eye or face protection.

Wash hands thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Avoid release to the environment.

Avoid breathing vapor.

Wash hands thoroughly after handling.

Response: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell. IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.

Storage: Store locked up. Protect from sunlight. Store in a well-ventilated place.

Disposal: Dispose of contents and container in accordance with all local, regional, national, and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED:

None known.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
Siloxanes and Silicones, di-Me	63148-62-9	60-100
Silica, amorphous, fumed, cryst.-free	112945-52-5	10 - 30
1,1-Difluoroethane	75-37-6	1 - 5

4. First Aid Measures

EMERGENCY OVERVIEW

EYES: Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention.

SKIN: Flush contaminated skin with plenty of water. Continue to rinse for at least 20 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

INHALATION:

Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

INGESTION:

Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be

kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED

POTENTIAL ACUTE HEALTH EFFECTS

Eye Contact: Causes serious eye irritation.

Inhalation: May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin: Causes skin irritation.

Ingestion: Irritating to mouth, throat and stomach.

OVER-EXPOSURE SIGNS/SYMPTOMS

EYE: Adverse symptoms may include the following: pain or irritation, watering, redness.

Inhalation: Adverse symptoms may include the following: respiratory tract irritation, coughing.

Skin: Adverse symptoms may include the following: irritation, redness.

Ingestion: No known significant effects or critical hazards.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY

NOTES TO PHYSICIAN: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

SPECIFIC TREATMENT: No specific treatment.

PROTECTION OF FIRST-AIDERS: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Use an extinguishing agent suitable for the surrounding fire.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

None known.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

This material is harmful to aquatic life. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

HAZARDOUS THERMAL DECOMPOSITION PRODUCTS:

Decomposition products may include the following materials: carbon dioxide, carbon monoxide, halogenated compounds, carbonyl halides, metal oxide/oxides

SPECIAL PROTECTIVE ACTIONS FOR FIRE-FIGHTERS:

No special precaution is required.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Fire fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

Non-Emergency Personnel: No action shall be taken involving any personal risk or without suitable training. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Emergency Responders: If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel."

ENVIRONMENTAL PRECAUTIONS:

Avoid dispersal of spilled material and runoff and contact with Methods and materials for containment and cleaning up soil, waterways, drains, and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil, or air).

SMALL SPILL: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

LARGE SPILL: Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, watercourses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

7. Handling and Storage

SAFE HANDLING:

Protective Measures: Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin, and clothing. Avoid breathing vapor or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.

Advice on General Occupational Hygiene: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored, and processed. Workers should wash hands and face before eating, drinking, and smoking. See also Section 8 for additional information on hygiene measures.

SAFE STORAGE & INCOMPATIBILITIES:

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool, and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Protect from sunlight. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

8. Exposure Controls / Personal Protection

CONTROL PARAMETERS

OCCUPATIONAL EXPOSURE LIMITS

Ingredient name

Exposure limits

Silica, amorphous, fumed, cryst.-free

NIOSH REL (United States, 1/2013).

TWA: 6 mg/m³ 10 hours.

APPROPRIATE ENGINEERING CONTROLS:

Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

ENVIRONMENTAL EXPOSURE CONTROLS:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

PERSONAL PROTECTIVE EQUIPMENT:



Eye/Face Protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.

Skin Protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory Protection: Use a properly fitted, air-purifying, or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

General Hygiene Considerations: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking, and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

9. Physical & Chemical Properties

Appearance:		Flammability(solid/gas):	Not available.
Physical State:	Liquid (paste).	Flammability Limit-lower (%):	Not available.
Color:	Translucent.	Flammability Limit-upper (%):	Not available.
Odor:	Sweet (slight).	Explosive Limit-Lower (%):	Not available.
Odor Threshold:	Not available.	Explosive Limit-Upper (%):	Not available.
pH:	Not available.	Vapor Density:	>1 [Air = 1]
Melting Point:	Not available.	Vapor Pressure:	<0.67 kPa (<5 mm Hg) [room temperature]
Boiling Point:	>300°C (>572°F)	Relative Density:	1.03
Viscosity(kinematic):	room temperature: 8500 cm ² /s (850000 cSt)	Solubility (water):	Insoluble.
Flash Point:	Not available.	Auto-Ignition Temp:	Not available.
Evaporation Rate:	Not available.	Decomposition Temp:	Not available.
Burning Rate:	Not available.	Partition Coeff(n-octanol/water):	No data available.
SADT:	Not available.	Burning Time:	Not available.

10. Stability & Reactivity Information

REACTIVITY:

No specific test data related to reactivity available for this product or its ingredients.

CHEMICAL STABILITY:

The product is stable.

POSSIBILITY OF HAZARDOUS REACTIONS:

Under normal conditions of storage and use, hazardous reactions will not occur.

INCOMPATIBLE MATERIALS:

Reactive or incompatible with the following materials: oxidizing materials.

CONDITIONS TO AVOID:

No specific data.

HAZARDOUS DECOMPOSITION PRODUCTS:

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

11. Toxicological Information

INFORMATION ON TOXICOLOGICAL EFFECTS

ACUTE TOXICITY

Product/ingredient name	Result	Species	Dose	Exposure
Siloxanes and Silicones, di-Me	LD50 Oral	Rat	>2000 mg/kg	-
Silica, amorphous, fumed, cryst.-free	LD50 Oral	Rat	3160 mg/kg	-

IRRITATION/CORROSION

Product/ingredient name	Result	Species	Score	Exposure	Observation
Siloxanes and Silicones, di-Me	Eyes - Mild irritant	Rabbit	-	1 hours 100 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 µL	-
	Eyes - Mild irritant	Rabbit	-	24 hours 100 µL	-

SENSITIZATION:

There is no data available.

MUTAGENICITY:

There is no data available.

CARCINOGENICITY:

Classification

Product/ingredient name	OSHA	IARC	ACGIH	NTP
Silica, amorphous, fumed, cryst.-free	-	3	-	-

REPRODUCTIVE TOXICITY:

There is no data available.

TERATOGENICITY:

There is no data available.

SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE):

Name	Category	Route of Exposure	Target organs
Silica, amorphous, fumed, cryst.-free	Category 3	Not applicable.	Respiratory tract irritation

POTENTIAL ACUTE HEALTH EFFECTS:

Eye Contact: Causes serious eye irritation.

Inhalation: May cause respiratory irritation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Skin Contact: Causes skin irritation.

Ingestion: Irritating to mouth, throat, and stomach.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL, AND TOXICOLOGICAL CHARACTERISTICS:

Eye Contact: Adverse symptoms may include the following: Pain or irritation, watering, redness.

Inhalation: Adverse symptoms may include the following: Respiratory tract irritation, coughing.

Skin Contact: Adverse symptoms may include the following: Irritation, redness.

Ingestion: No known significant effects or critical hazards.

DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE:**Short-Term Exposure:**

Potential Immediate Effects: No known significant effects or critical hazards.

Potential Delayed Effects: No known significant effects or critical hazards.

Long-Term Exposure:

Potential Immediate Effects: No known significant effects or critical hazards.

Potential Delayed Effects: No known significant effects or critical hazards.

POTENTIAL CHRONIC HEALTH EFFECTS:

General: No known significant effects or critical hazards.

Carcinogenicity: No known significant effects or critical hazards.

Mutagenicity: No known significant effects or critical hazards.

Teratogenicity: No known significant effects or critical hazards.

Developmental Effects: No known significant effects or critical hazards.

Fertility Effects: No known significant effects or critical hazards.

NUMERICAL MEASURE OF TOXICITY:**Acute Toxicity Estimates:**

Route	ATE value
Oral	21247.8 mg/kg

12. Ecological Information**TOXICITY:**

Product/ingredient name	Result	Species	Exposure
Siloxanes and Silicones, di-Me	Acute LC50 44.5 ppm Fresh water	Daphnia - Daphnia magna – Instar	48 hours
	Acute LC50 3160 to 4150 µg/L Freshwater	Fish - Ictalurus punctatus	96 hours

PERSISTENCE AND DEGRADABILITY:

There is no data available.

BIOACCUMULATIVE POTENTIAL:

There is no data available.

MOBILITY IN SOIL:

SOIL/WATER PARTITION COEFFICIENT (K_{oc}): There is no data available.




OTHER ADVERSE EFFECTS:

No known significant effects or critical hazards.

13. Disposal Consideration

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions, and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains, and sewers.

14. Transportation Information

	DOT CLASSIFICATION	IMDG	IATA
UN NUMBER	UN1950	UN1950	UN1950
UN PROPER SHIPPING NAME	Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane)	Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane)	Aerosols, flammable (each not exceeding 1 L capacity) (1, 1-Difluoroethane)
TRANSPORT HAZARD CLASS(ES)	2.1 	2.1 	2.1 
PACKING GROUP	--	--	--
ENVIRONMENTAL HAZARDS	No.	No.	No.
ADDITIONAL INFORMATION	Remarks: Limited Quantity Exemption	Remarks: Limited Quantity Exemption	Remarks: Limited Quantity Exemption

SPECIAL PRECAUTIONS FOR USER:

Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

TRANSPORT IN BULK ACCORDING TO ANNEX II OF MARPOL 73/78 AND THE IBC CODE:

Not available.

15. Regulatory Information

US FEDERAL REGULATIONS:

United States inventory (TSCA 8b): All components are listed or exempted. Clean Air Act (CAA) 112 regulated flammable substances: 1,1-Difluoroethane

CLEAN AIR ACT SECTION 112 (B) HAZARDOUS AIR POLLUTANTS (HAPs): Not listed.

CLEAN AIR ACT SECTION 602 CLASS I SUBSTANCES: Not listed.

CLEAN AIR ACT SECTION 602 CLASS II SUBSTANCES: Not listed.

DEA LIST I CHEMICALS (PRECURSOR CHEMICALS): Not listed.

DEA LIST II CHEMICALS (ESSENTIAL CHEMICALS): Not listed.

SARA 302/304:

COMPOSITION/INFORMATION ON INGREDIENTS: SARA 304 RQ: Not applicable

SARA 311/312

CLASSIFICATION: Sudden release of pressure immediate (acute) health hazard

COMPOSITION/INFORMATION ON INGREDIENTS: No products were found.

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Silica, amorphous, fumed, cryst.-free	10 - 30	No.	No.	No.	Yes.	No.

US STATE REGULATIONS:

MASSACHUSETTS: The following components are listed 1, 1-Difluoroethane

NEW YORK: None of the components are listed.

NEW JERSEY: The following components are listed: 1, 1-Difluoroethane

PENNSYLVANIA: None of the components are listed.

CALIFORNIA PROP, 65: No products were found.

INTERNATIONAL REGULATIONS

INTERNATIONAL LISTS:

Australia inventory (AICS): All components are listed or exempted.

China inventory (IECSC): All components are listed or exempted.

Japan inventory: Not determined.

Korea inventory: All components are listed or exempted.

Malaysia Inventory (EHS Register): Not determined.

New Zealand Inventory of Chemicals (NZIoC): Not determined.

Philippines inventory (PICCS): All components are listed or exempted.

Taiwan inventory (CSNN): Not determined.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE I CHEMICALS: Not listed.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE II CHEMICALS: Not listed.

CHEMICAL WEAPONS CONVENTION LIST SCHEDULE III CHEMICALS: Not listed.

16. Other Information

KEY TO ABBREVIATIONS:

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labeling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

Log Pow = logarithm of the octanol/water partition coefficient

MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978.

("Marpol" = marine pollution)

UN = United Nations

DISCLAIMER:

To the best of our knowledge, information contained herein is accurate. However, there is no assumption of liability 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 hazard, which exists. The information contained in this SDS was obtained from current and reliable sources; however, the data is provided without any warranty, expressed or implied, regarding its correctness or accuracy. Since the conditions or handling, storage and disposal of this product are beyond the control of the manufacturer, the manufacturer will not be responsible for loss, injury, or expense arising out of the products improper use. No warranty, expressed or inferred, regarding the product described in this SDS shall be created or inferred by any statement in this SDS. Various government agencies may have specific regulations regarding the transportation, handling, storage, use, or disposal of this product, which may not be covered by this SDS. The user is responsible for full compliance.