



SAFETY DATA SHEET

| 1. Product and Company Identification | | | |
|---------------------------------------|---|-----------------------------|----------------|
| PRODUCT NUMBER: | 1635 | COMPANY PHONE: | 1-800-241-8180 |
| PRODUCT NAME: | SUPER SOL | EMERGENCY TELEPHONE: | 1-800-535-5053 |
| PRODUCT DESCRIPTION: | Contact & Circuit Board Cleaner | INFOTRAC: | 1-800-535-5053 |
| COMPANY INFORMATION: | PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004 | | |

| 2. Hazards Identification | | | | |
|--|---------------------------------------|----------------|---|---|
| GHS CLASSIFICATION: Physical Hazards Gases under pressure - Compressed gas Health Hazards Acute toxicity (Inhalation – vapor) - Category 4 Acute toxicity (Inhalation – dust and mist) - Category 4 Serious Eye Damage/Eye Irritation - Category 2A | SIGNAL WORD: WARNING | SYMBOL: |  |  |
| HAZARD STATEMENTS: Contains gas under pressure; may explode if heated. Harmful if inhaled. Causes serious eye irritation. | | | | |
| PRECAUTIONARY STATEMENTS: Prevention: Avoid breathing dust/fume/gas/mist/vapors/spray. Use only outdoors or in a well-ventilated area. Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Response: IF INHALED: Remove person to fresh air and keep comfortable for breathing. 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 advice/attention. Call a POISON CENTER/doctor if you feel unwell. Storage: Protect from sunlight. Store in a well-ventilated place. | | | | |
| HAZARDS NOT OTHERWISE SPECIFIED: None. | | | | |

| 3. Composition / Information on Ingredients | | |
|---|-------------|---------------------------|
| Chemical Name | CAS | Concentration % by Weight |
| Ethene, 1,2-dichloro-, (1E)- | 156-60-5 | 20 - <50% |
| Propane, 2-(ethoxydifluoromethyl)-1,1,1,2,3,3,3-heptafluoro- | 163702-06-5 | 10 - <20% |
| *All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. The exact concentration has been withheld as a trade secret. | | |

| 4. First Aid Measures |
|--|
| EMERGENCY OVERVIEW EYES: Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Get medical attention. SKIN: Wash skin thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention. INHALATION: Move to fresh air. INGESTION: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth. PERSONAL PROTECTION FOR FIRST-AID RESPONDERS: Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA. MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED: Symptoms: No data available. Hazards: No data available. INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED: Treatment: Symptoms may be delayed. |

| 5. Fire-Fighting Measures |
|--|
| GENERAL FIRE HAZARDS: Use water spray to keep fire-exposed containers cool. Fight fire from a protected location. Stop flow of gas. Move containers from fire area if you can do so without risk. SUITABLE FIRE EXTINGUISHING MEDIA: Use fire-extinguishing media appropriate for surrounding materials. UNSUITABLE FIRE EXTINGUISHING MEDIA: Do not use water jet as an extinguisher, as this will spread the fire. SPECIFIC HAZARDS ARISING FROM THE CHEMICAL: Pressurized container may explode when exposed to heat or flame. SPECIFIC FIRE-FIGHTING METHODS: No data available. |

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots and in enclosed spaces, SCBA.

6. Accidental Release Measures**PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT & EMERGENCY PROCEDURES:**

No data available.

ACCIDENTAL RELEASE MEASURES:

Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material if this is without risk.

ENVIRONMENTAL PRECAUTIONS:

Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP:

Absorb spill with vermiculite or other inert material, then place in a container for chemical waste.

7. Handling and Storage**TECHNICAL MEASURES (E.G. LOCAL AND GENERAL VENTILATION):**

No data available.

SAFE HANDLING:

Avoid contact with eyes. Wash hands thoroughly after 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. Do not pierce or burn, even after use. Avoid contact with skin.

CONTACT AVOIDANCE MEASURES:

No data available.

SAFE STORAGE CONDITIONS:

Protect from sunlight. Store in a cool place. Aerosol Level 1

SAFE PACKAGING MATERIALS:

No data available.

STORAGE TEMPERATURE:

No data available.

8. Exposure Controls / Personal Protection**OCCUPATIONAL EXPOSURE LIMITS:**

| Chemical Identity | Type | Exposure Limit Values | | Source |
|------------------------------|------|-----------------------|-----------------------|---|
| Ethene, 1,2-dichloro-, (1E)- | REL | 200 ppm | 790 mg/m ³ | US. NIOSH: Pocket Guide to Chemical Hazards, as amended |
| | TWA | 200 ppm | 790 mg/m ³ | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended |
| | TWA | 200 ppm | | US. ACGIH Threshold Limit Values, as amended |
| | PEL | 200 ppm | 790 mg/m ³ | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended |

PERSONAL PROTECTIVE EQUIPMENT:

Eye/Face Protection: Wear safety glasses with side shields (or goggles).

Skin/Hand Protection: No data available.

Skin/Body Protection: Wear suitable protective clothing.

Respiratory Protection: In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.

General Hygiene Considerations: Observe good industrial hygiene practices. Avoid contact with eyes.

APPROPRIATE ENGINEERING CONTROLS:

No data available.

9. Physical & Chemical Properties

| | | | |
|-----------------------------------|--------------------|--|--------------------------|
| Appearance: | | Flammability(solid/gas): | No data available. |
| Physical State: | Liquid | Flammability Limit-lower (%): | No data available. |
| Form: | Spray Aerosol | Flammability Limit-upper (%): | No data available. |
| Color: | No data available. | Explosive Limit-Lower (%): | No data available. |
| Odor: | No data available. | Explosive Limit-Upper (%): | No data available. |
| Odor Threshold: | No data available. | Vapor Density (air=1): | No data available. |
| pH: | No data available. | Vapor Pressure: | 2,757 - 3,447 hPa (20°C) |
| Freezing Point: | No data available. | Relative Density: | No data available. |
| Boiling Point: | No data available. | Solubility (water): | No data available. |
| Kinematic Viscosity: | No data available. | Solubility (other): | |
| Flash Point: | Not applicable. | Self-Ignition Temp: | No data available. |
| Self-Ignition Temperature: | No data available. | Decomposition Temp: | No data available. |
| Evaporation Rate: | No data available. | Partition Coeff(n-octanol/water): | No data available. |
| Explosive Properties: | No data available. | Dynamic Viscosity: | No data available. |
| Density: | No data available. | Oxidizing Properties: | No data available. |

10. Stability & Reactivity Information**REACTIVITY:**

No data available.

CHEMICAL STABILITY:

Material is stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

No data available.

CONDITIONS TO AVOID:

Avoid heat or contamination.

INCOMPATIBLE MATERIALS:

No data available.

HAZARDOUS DECOMPOSITION PRODUCTS:

No data available.

11. Toxicological Information**INFORMATION ON LIKELY ROUTES OF EXPOSURE:**

Inhalation: No data available.

Skin Contact: No data available.

Eye Contact: No data available.

Ingestion: No data available.

SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS:

Inhalation: No data available.

Skin Contact: No data available.

Eye Contact: No data available.

Ingestion: No data available.

INFORMATION ON TOXICOLOGICAL EFFECTS**ACUTE TOXICITY:**

Oral Product: Not classified for acute toxicity based on available data.

Dermal Product: Not classified for acute toxicity based on available data.

Inhalation Product: ATEmix: 11 mg/l Vapour

ATEmix: 1.5 mg/l Dusts, mists and fumes

REPEATED DOSE TOXICITY:

Product: No data available.

SKIN CORROSION/IRRITATION:

Product: No data available.

SERIOUS EYE DAMAGE/EYE IRRITATION:

Product: No data available.

RESPIRATORY SENSITIZATION:

Product: No data available.

SKIN SENSITIZATION:

Product: No data available.

CARCINOGENICITY

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified.

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified.

U.S. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:

No carcinogenic components identified.

GERM CELL MUTAGENICITY:

In Vitro Product: No data available.

In Vivo Product: No data available.

REPRODUCTIVE TOXICITY:

Product: No data available.

SPECIFIC TARGET ORGAN TOXICITY -single exposure:

Product: No data available.

SPECIFIC TARGET ORGAN TOXICITY -repeated exposure:

Product: No data available.

ASPIRATION HAZARD:

Product: No data available.

OTHER EFFECTS:

No data available.

12. Ecological Information**ECOTOXICITY:****ACUTE HAZARDS TO THE AQUATIC ENVIRONMENT:****FISH**

Product: No data available.

AQUATIC INVERTEBRATES

Product: No data available.

Components:

Ethene, 1,2-dichloro-, (1E)- LC 50 (Water flea (Daphnia magna), 48 h): 170 - 290 mg/l Mortality

CHRONIC HAZARDS TO THE AQUATIC ENVIRONMENT:**FISH**

Product: No data available.

AQUATIC INVERTEBRATES

Product: No data available.

TOXICITY TO AQUATIC PLANTS:

Product: No data available.

PERSISTENCE AND DEGRADABILITY:**Biodegradation Product:** No data available.**Components:**

Ethene, 1,2-dichloro-, (1E)- The product is not expected to be biodegradable.

BOD/COD RATIO**Product:** No data available.**BIOACCUMULATIVE POTENTIAL:****Bioconcentration Factor (BCF):****Product:** No data available.**PARTITION COEFFICIENT N-OCTANOL / WATER (LOG KOW)****Product:** No data available.**MOBILITY IN SOIL:**

No data available.

Components:

Ethene, 1,2-dichloro-, (1E)-

No data available.

Propane, 2-(ethoxydifluoromethyl)-1,1,1, 2,3,3,3-heptafluoro-

No data available.

OTHER ADVERSE EFFECTS:

No data available.

13. Disposal Consideration**DISPOSAL INSTRUCTIONS:**

Wash before disposal. Dispose to controlled facilities.

CONTAMINATED PACKAGING:

No data available.

14. Transportation Information

DOT: UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
 Class: 2.2
 Label(s): -
 EmS No.:
Packing Group: II
Special Precautions for User: Not regulated.

IATA: UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
 Class: 2.2
 Label(s): -
Packing Group: -
Special Precautions for User: Not regulated.
Other Information:
Passenger and Cargo Aircraft: Allowed. 203
Cargo Aircraft Only: Allowed. 203

IMDG: UN Number: UN 1950
UN Proper Shipping Name: Aerosols, flammable
Transport Hazard Class(es):
 Class: 2
 Label(s): -
 EmS No.:
Packing Group: -
Special Precautions for User: Not regulated.

15. Regulatory Information**US FEDERAL REGULATIONS:****Restrictions on use:** Not known.**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)****US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)****US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):**Chemical Identity:**

1,2-TRANS-DICHLOROETHYLENE

SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (SARA):**Hazard Categories:**

Gas under pressure, Acute toxicity (any route of exposure), Serious eye damage or eye irritation.

US. EPCRA (SARA Title III) Section 304 Extremely hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) hazardous Substances:

None present or none present in regulated quantities.

US.EPA Emergency Planning and Community Right-To-Know Act (EPCRA) SARA Title III Section 313 Toxic Chemicals (40 FRE 372.65) – Supplier Notification Required**Chemical Identity:** % by weight

Ethene, 1,2-dichloro-, (1E) 1.0%

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)****US STATE REGULATIONS:**

US. California Proposition 65:

No ingredient requiring a warning under CA Prop 65.

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

Ethene, 1,2-dichloro-, (1E)

US. Massachusetts RTK - Substance List:

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances:**Chemical Identity:**

Ethene, 1,2-dichloro-, (1E)

US. Rhode Island RTK:

No ingredient regulated by RI Right-to-Know Law present.

INTERNATIONAL REGULATIONS**Montreal protocol:**

Ethane, 1,1,1,2-tetrafluoro- Group I Annex F

Stockholm convention:

Not applicable.

Rotterdam convention:

Not applicable.

Kyoto protocol:**INVENTORY STATUS:**

| | |
|---|---|
| Australia AICS | Not in compliance with the inventory. |
| Canada DSL Inventory List | On or in compliance with the inventory. |
| EINECS, ELINCS or NLP | Not in compliance with the inventory. |
| Japan (ENCS) List | Not in compliance with the inventory. |
| China Inv. Existing Chemical Substances | On or in compliance with the inventory. |
| Korea Existing Chemicals Inv. (KECI) | Not in compliance with the inventory. |
| Canada NDSL Inventory | Not in compliance with the inventory. |
| Philippines PICCS | On or in compliance with the inventory. |
| US TSCA Inventory | On or in compliance with the inventory. |
| New Zealand Inventory of Chemicals | On or in compliance with the inventory. |
| Japan ISHL Listing | Not in compliance with the inventory. |
| Japan Pharmacopoeia Listing | Not in compliance with the inventory. |
| Mexico INSQ | Not in compliance with the inventory. |
| Ontario Inventory | Not in compliance with the inventory. |
| Taiwan Chemical Substance Inventory | On or in compliance with the inventory. |

16. Other Information**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.