SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	1127001	**COMPANY PHONE:**	1-800-241-8180
PRODUCT NAME:	SAFE-SOLV	**EMERGENCY TELEPHONE:**	1-800-535-5053
PRODUCT DESCRIPTION:	Non-Flammable Solvent Degreaser	**INFOTRAC:**	1-800-535-5053
COMPANY INFORMATION:	**PRO CHEM, INC.** 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION:
Aerosols - Category 3
Carcinogenicity - Category 2
Eye Irritation - Category 2
Skin Irritation - Category 2
Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) - Category 3

SIGNAL WORD:
WARNING

SYMBOLS:

HAZARDOUS STATEMENTS - PHYSICAL:

H229 - Pressurized container; may burst if heated.

HAZARDOUS STATEMENTS – HEALTH:

H351 - Suspected of causing cancer.
H319 - Causes serious eye irritation.
H315 - Causes skin irritation.
H336 - May cause drowsiness or dizziness.

PRECAUTIONARY STATEMENTS – GENERAL:

P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P103 - Read carefully and follow all instructions.

PRECAUTIONARY STATEMENTS – PREVENTION:

P201 - Obtain special instructions before use.
P202 - Do not handle until all safety precautions have been read and understood.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P251 - Do not pierce or burn, even after use.
P261 - Avoid breathing mist, vapors and spray.
P264 - Wash hands thoroughly after handling.
P271 - Use only outdoors or in a well-ventilated area.
P280 - Wear protective gloves, protective clothing, eye and face protection.

PRECAUTIONARY STATEMENTS – RESPONSE:

P308 + P313 - IF exposed or concerned: Get medical attention.
P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 - If eye irritation persists: Get medical attention.
P302 + P352 - IF ON SKIN: Wash with plenty of soap and water.
P362 + P364 - Take off contaminated clothing and wash it before reuse.
P332 + P313 - If skin irritation occurs: Get medical advice or attention
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.

PRECAUTIONARY STATEMENTS – STORAGE:

P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 122 °F (50 °C).
P405 - Store locked up.

PRECAUTIONARY STATEMENTS – DISPOSAL:

P501 - Dispose of contents and container in accordance with local, regional, national and international regulations.

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight
Tetrachloroethylene	127-18-4	94% - 97%
Carbon Dioxide	124-38-9	3%-6%

Specific chemical identity and/or exact percentage (concentration) of the composition has been withheld to protect confidentiality.

4. First Aid Measures

INHALATION: Remove source of exposure or move person to fresh air and keep comfortable for breathing. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor. If breathing has stopped, trained personnel should begin rescue breathing or, if the heart has stopped, immediately start cardiopulmonary resuscitation (CPR) or automated external defibrillation (AED). If you feel unwell/If concerned: Get medical advice/attention.

EYE CONTACT: Rinse eyes cautiously with lukewarm, gently flowing water for 15 minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

SKIN CONTACT: Wipe off with a towel. Wash with soap and water. Get medical attention if irritation persists.

INGESTION: Ingestion is not a likely route of exposure. Get medical attention if you feel unwell.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:
May cause drowsiness or dizziness.

INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:
Treat symptomatically.

5. Fire-Fighting Measures

SUITABLE EXTINGUISHING MEDIA:
Use water spray or fog for cooling exposed containers.

UNSUITABLE EXTINGUISHING MEDIA:
None known.

SPECIFIC HAZARDS IN CASE OF FIRE:
Closed containers may explode from internal pressure build-up when exposed to extreme heat and discharge contents. Liquid content of container will not support combustion. Overexposure to decomposition products may cause a health hazard. Symptoms may not be readily apparent. Obtain medical attention. Hazardous decomposition products include carbon dioxide, carbon monoxide, and other toxic fumes.

FIRE-FIGHTING PROCEDURES:
Water may be used to cool containers to prevent pressure build-up and explosion when exposed to extreme heat.

SPECIAL PROTECTIVE ACTIONS:
Wear goggles and use a self-contained breathing apparatus. If water is used, fog nozzles are preferred.

6. Accidental Release Measures

EMERGENCY PROCEDURE:
Ventilate area. Remove all sources of ignition.

RECOMMENDED EQUIPMENT:
See Section 8 for specifics on personal protective equipment (PPE).

PERSONAL PRECAUTIONS:
Avoid breathing vapors. Ventilate area. Wear safety glasses and gloves.

ENVIRONMENTAL PRECAUTIONS:
Stop spill/release if it can be done safely.

METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP:
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.

7. Handling and Storage

GENERAL:
Do not puncture or incinerate (burn) cans. Do not stick pins, nails, or any other sharp objects into opening on top of can. Do not spray in eyes. Do not take internally.

VENTILATION REQUIREMENTS:
Use in a well-ventilated place.

STORAGE ROOM REQUIREMENTS:
Store and use in a cool, dry, well-ventilated area. Do not store above 120°F. See product label for additional information.

8. Exposure Controls / Personal Protection

EYE/FACE PROTECTION: Wear safety glasses with side shields. Eyewash stations and showers should be available in areas where this material is used and stored.

SKIN PROTECTION: Use solvent-resistant protective gloves for prolonged or repeated contact.

RESPIRATORY PROTECTION: In restricted areas, use approved chemical/mechanical filters designed to remove a combination of particles and vapor. In confined areas, Use an approved air line respirator or hood. A self-contained breathing apparatus is required for vapor concentrations above PEL/TLV limits.

PERSONAL PROTECTIVE EQUIPMENT:

APPROPRIATE ENGINEERING CONTROLS:

Ventilation should be sufficient to prevent inhalation of any vapors.

Chemical Name	OSHA TWA (mg/m3)	OSHA TWA (ppm)	OSHA STEL (mg/m3)	OSHA STEL (ppm)	OSHA Carcinogen	OSHA Skin Designation	OSHA Tables (Z1, Z2, Z3)	ACGIH TWA (mg/m3)	ACGIH TWA (ppm)
Carbon Dioxide	9000	5000					1		5000
Tetrachloroethylene		100 (a)/ 200 ceiling		300ppm /5mins. In any 3 hrs.(a)			1,2		25

Chemical Name	ACGIH STEL (mg/m3)	ACGIH STEL (ppm)	ACGIH Carcinogen	ACGIH TLV Basis	ACGIH Notations	NIOSH TWA (mg/m3)	NIOSH TWA (ppm)	NIOSH STEL (mg/m3)	NIOSH STEL (ppm)	NIOSH Carcinogen
Carbon Dioxide		30000		Asphyxia		9000	5000	54000	30000	
Tetrachloroethylene		100	A3	CNS impair	A3; BEI		b			1

(C) - Ceiling limit, A2 - Suspected Human Carcinogen, A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans, BEI - Substances for which there is a Biological Exposure Index or Indices, CNS - Central nervous system, dam - Damage, impair – Impairment.

9. Physical & Chemical Properties

Appearance:	Colorless Aerosol Spray	**Vapor Density:**	N.A.
Odor Threshold:	N.A.	**Freezing Point:**	N.A.
Odor Description:	Ether Like	**Low Boiling Point:**	121.24 °C
pH:	N.A.	**High Boiling Point:**	N.A.
Water Solubility:	150 g/mL	**Decomposition Pt:**	N.A.
Flammability:	Flash point below 73°F/23°C	**Auto-Ignition Temp:**	N.A.
Flash Point:	>93°C	**Evaporation Rate:**	Slower than ether
Viscosity:	0.524 cSt	**Density:**	13.43 lb/gal
Lower Explosion Level:	N.A.	**Density VOC:**	0 lb/gal
Upper Explosion Level:	N.A.	**% VOC:**	0%
Melting Point:	N.A.		

10. Stability & Reactivity Information

STABILITY:

The product is stable under normal storage conditions.

CONDITIONS TO AVOID:

High temperatures.

INCOMPATIBLE MATERIALS:

None known.

HAZARDOUS REACTIONS/POLYMERIZATION:

None known.

HAZARDOUS DECOMPOSITION PRODUCTS:

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

11. Toxicological Information

SKIN CORROSION/IRRITATION:

Causes skin irritation.

SERIOUS EYE DAMAGE/IRRITATION:

Causes serious eye irritation.

CARCINOGENICITY:

Suspected of causing cancer.

GERM CELL MUTAGENICITY:

Based on available data, the classification criteria are not met.

REPRODUCTIVE TOXICITY:

Based on available data, the classification criteria are not met.

RESPIRATORY/SKIN SENSITIZATION:

Based on available data, the classification criteria are not met.

SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE:

May cause drowsiness or dizziness.

SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE:

Based on available data, the classification criteria are not met.

ASPIRATION HAZARD:

Based on available data, the classification criteria are not met.

ACUTE TOXICITY:

Based on available data, the classification criteria are not met.

LIKELY ROUTE OF EXPOSURE:
Inhalation, Ingestion, Skin contact, Eye contact

127-18-4 Tetrachloroethylene
LC5O (rat): Approximately 3786 ppm (4-hour exposure) (22); approximately 4000 ppm (4-hour exposure) (23)
LC50 (mouse): 5200 ppm (4-hour exposure) (24)
LD5O (oral, rat): Approximately 2600 mg/kg (cited as 1.6 mL/kg) (20)
LD50 (oral, male rat): 3835 mg/kg (25)
LD50 (oral, female rat): 3005 mg/kg (25)
LD50 (dermal, rabbit): Greater than 3245 mg/kg (0/5 animals died) (2)

12. Ecological Information

TOXICITY:
Based on available data, the classification criteria are not met.
PERSISTENCE AND DEGRADABILITY:
No data available.
BIO-ACCUMULATIVE POTENTIAL:
No data available.
MOBILITY IN SOIL:
No data available.
OTHER ADVERSE EFFECTS:
No data available.

13. Disposal Consideration

WASTE DISPOSAL:
Under RCRA, it is the responsibility of the user of the product, to determine at the time of disposal whether the product meets RCRA criteria for hazardous waste. Waste management should be in full compliance with federal, state, and local laws. Empty containers retain product residue which may exhibit hazards of material, therefore do not pressurize, cut, glaze, weld or use for any other purposes. Return drums to reclamation centers for proper cleaning and reuse.

14. Transportation Information

	U.S. DOT Information	IMDG Information	IATA Information
UN Number:	UN1950	UN1950	UN1950
Proper Shipping Name:	Aerosols	Aerosols	Aerosols, nonflammable
Hazard Class:	2.2	2.2	2.2
Packaging Group:	N.A.	N.A.	N.A.
Hazardous Substance (RQ):	No Data Available		
Marine Pollutant:	No Data Available	No Data Available	
Note / Special Provision:	No Data Available	No Data Available	No Data Available
Toxic-Inhalation Hazard:	No Data Available		

15. Regulatory Information

CAS	Chemical Name	% By Weight	Regulation List
127-18-4	Tetrachloroethylene	94-97%	SARA313, CERCLA, HAPS, SARA312, VHAPS, VOC exempt, TSCA, RCRA, ACGIH, California Proposition 65 Cancer, OSHA
124-38-9	Carbon Dioxide	3-6%	SARA312, TSCA, ACGIH, OSHA

After December 8, 2026 this chemical substance (as defined in TSCA section 3(2))/product cannot be distributed in commerce to retailers for any use. After March 8, 2027, this chemical substance (as defined in TSCA section 3(2))/product is and can only be distributed in commerce or processed with a concentration of PCE equal to or greater than 0.1% by weight for the following purposes: (1) Processing as a reactant/intermediate; (2) Processing into formulation, mixture or reaction product; (3) Processing by repackaging; (4) Recycling; (5) Industrial and commercial use as solvent in open-top batch vapor degreasing; (6) Industrial and commercial use as solvent in closed-loop batch vapor degreasing; (7) Industrial and commercial use in maskant for chemical milling; (8) Industrial and commercial use as a processing aid in catalyst regeneration in petrochemical manufacturing; (9) Industrial and commercial use as a processing aid in sectors other than petrochemical manufacturing; (10) Industrial and commercial use as solvent for cold cleaning of tanker vessels; (11) Industrial and commercial use as energized electrical cleaner; (12) Industrial and commercial use in laboratory chemicals; (13) Industrial and commercial use in solvent-based adhesives and sealants; (14) Industrial and commercial use in dry cleaning in 3rd generation machines until December 20, 2027; (15) Industrial and commercial use in all dry cleaning and related spot cleaning until December 19, 2034; (16) Export; and (17) Disposal.

WARNING: This product can expose you to Tetrachloroethylene (Perchloroethylene), which is known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

16. Other Information

GLOSSARY:

ACGIH- American Conference of Governmental Industrial Hygienists; ANSI- American National Standards Institute; Canadian TDG Canadian Transportation of Dangerous Goods; CAS- Chemical Abstract Service; Chemtrec- Chemical Transportation Emergency Center (US); CHIP- Chemical Hazard Information and Packaging; DSL- Domestic Substances List; EC- Equivalent Concentration; EH40 (UK)- HSE Guidance Note EH40 Occupational Exposure Limits; EPCRA- Emergency Planning and Community Right-To-Know Act; ESL Effects screening levels; HMIS- Hazardous Material Information Service; LC- Lethal Concentration; LD- Lethal Dose; NFPA- National Fire Protection Association; OEL- Occupational Exposure Limits; OSHA- Occupational Safety and Health Administration, US Department of Labor; PEL- Permissible Exposure Limit; SARA (Title III)- Superfund Amendments and Reauthorization Act; SARA 313- Superfund Amendments and Reauthorization Act, Section 313; SCBA- Self-Contained Breathing Apparatus; STEL- Short Term Exposure Limit; TCEQ- Texas Commission on Environmental Quality; TLV- Threshold Limit Value; TSCA- Toxic Substances Control Act Public Law 94- 469; TWA- Time Weighted Value; US DOT- US Department of Transportation; WHMIS- Workplace Hazardous Materials Information System.

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.