



SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2302305	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	Pro-Solv	EMERGENCY TELEPHONE:	1-800-535-5053
PRODUCT DESCRIPTION:	Powerful VOC-Compliant Solvent Degreaser	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION: GHS-US classification Flam. Liq. 4 H227 Eye Dam. 1 H318 Skin Sens. 1 H317 Asp. Tox. 1 H304	SIGNAL WORD: DANGER	SYMBOL:	
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HAZARD STATEMENTS:

Combustible liquid. May be fatal if swallowed and enters airways. May cause an allergic skin reaction. Causes serious eye damage.

PRECAUTIONARY STATEMENTS:

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Avoid breathing mist, spray.

Contaminated work clothing must not be allowed out of the workplace.

Wear gloves/protective clothing/eye protection.

If swallowed: Immediately call a poison center or doctor.

Do NOT induce vomiting.

If on skin: Wash with plenty of soap and water.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Immediately call a doctor.

If skin irritation or rash occurs: Get medical advice/attention.

Wash contaminated clothing before reuse.

In case of fire: Use carbon dioxide (CO₂), dry extinguishing powder, foam to extinguish.

Storage: Store in a well-ventilated place. Keep cool. Store locked up.

Disposal: Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

HAZARDS NOT OTHERWISE SPECIFIED:

No additional information available.

UNKNOWN ACUTE TOXICITY (GHS US):

Not Applicable

3. Composition / Information on Ingredients

Chemical Name	CAS	Concentration % by Weight	GHS-US classification
ALKANES, C14-16	(CAS-NO.) 90622-46-1	10-30	ASP. TOX. 1, H304
UNDECETH-5	(CAS-NO.) 34398-01-1	10-30	Acute Tox. 4 (Oral), H302 - Eye Dam. 1, H318
D-LIMONENE	(CAS-NO.) 5989-27-5	1-5	Flam. Liq. 3, H226 - Skin Irrit. 2, H315 - Skin Sens. 1, H317 Asp. Tox. 1, H304
DIMETHYL SUCCINATE	(CAS-NO.) 106-65-0	1-5	EYE IRRIT. 2A, H319
UNDECANOL	(CAS-NO.) 112-42-5	1-5	SKIN IRRIT. 2, H315

All hazardous chemicals, as determined by 29 CFR 1910.1200 have been listed. A specific chemical identity and/or percentage of composition has been withheld as a trade secret. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

4. First Aid Measures

EMERGENCY OVERVIEW

GENERAL: Call a physician immediately.

INHALATION: First-aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing.

SKIN: First-aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.

EYES: First-aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a physician immediately.

INGESTION: First-aid measures after ingestion: Do not induce vomiting. Call a physician immediately.

MOST IMPORTANT SYMPTOMS/EFFECTS, ACUTE AND DELAYED:

Symptoms/effects after inhalation: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Symptoms/effects after skin contact: May cause an allergic skin reaction.

Symptoms/effects after eye contact: Serious damage to eyes.

Symptoms/effects after ingestion: Risk of lung oedema.

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

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Water spray. Dry powder. Foam. Carbon dioxide.

UNSUITABLE FIRE EXTINGUISHING MEDIA:

Do not use a heavy water stream.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Fire hazard: Combustible liquid.

Explosion hazard: No direct explosion hazard.

Reactivity: Upon combustion: CO and CO₂ are formed.

SPECIFIC FIRE-FIGHTING METHODS:

Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.

SPECIAL PROTECTION FOR FIREFIGHTERS:

Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

6. Accidental Release Measures

PERSONAL PRECAUTIONS:

General measures: Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

For non-emergency personnel:

Protective equipment: Wear recommended personal protective equipment.

Emergency procedures: Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid contact with skin and eyes.

Avoid breathing dust/fume/gas/mist/vapors/spray.

For emergency responders:

Protective equipment: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

Emergency procedures: Evacuate unnecessary personnel. Stop leak if safe to do so.

ENVIRONMENTAL PRECAUTIONS:

Avoid release to the environment.

METHODS & MATERIALS FOR CONTAINMENT & CLEANUP:

For containment: Absorb spilled material with sand or earth. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible. Methods for cleaning up: Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters. Dispose of materials or solid residues at an authorized site.

REFERENCE TO OTHER SECTIONS:

For further information refer to section 13.

7. Handling and Storage

SAFE HANDLING:

Additional hazards when processed: Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling: Ensure good ventilation of the workstation. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear personal protective equipment. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapors/spray.

Hygiene measures: Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Do not eat, drink, or smoke when using this product. Always wash hands after handling the product.

SAFE STORAGE & INCOMPATIBILITIES:

Technical measures: Keep in a cool, well-ventilated place away from heat.

Storage conditions: Store in a well-ventilated place. Keep cool. Store locked up.

Packaging materials: Store always product in container of same material as original container.

8. Exposure Controls / Personal Protection

Chemical Identity	Control parameters
d-Limonene (5989-27-5)	Not applicable
Alkanes, C14-16 (90622-46-1)	Not applicable
Undeceth-5 (34398-01-1)	Not applicable
Undecanol (112-42-5)	Not applicable
Dimethyl Succinate (106-65-0)	Not applicable

PERSONAL PROTECTIVE EQUIPMENT: Use appropriate personal protective equipment when risk assessment indicates this is necessary. Gloves. Protective clothing. Protective goggles. Safety glasses.



Hand protection: Protective gloves.

Eye protection: Safety glasses.

Skin and body protection: Wear suitable protective clothing.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

ENVIRONMENTAL EXPOSURE CONTROLS:

Avoid release to the environment.

9. Physical & Chemical Properties

Appearance:	Clear, orange liquid	Flammability(solid/gas):	No data available
Physical State:	Liquid	Relative evaporation rate (butylacetate=1)	No data available
VOC content:	< 3 %	Oxidizing properties	No data available

Color:	Clear, Orange	Explosive Limits	No data available
Odor:	Citrus scent	Explosive properties:	No data available
Odor Threshold:	No data available	Density:	0.854 g/ml
pH:	No data available	Vapor Pressure:	No data available
Melting/Freezing Point:	No data available	Relative Density:	No data available
Boiling Point/Range:	No data available	Solubility (water):	Emulsifies in water.
Viscosity:	No data available	Auto-Ignition Temp:	No data available
Flash Point:	182 °F Closed Cup	Decomposition Temp:	No data available
Viscosity, kinematic	< 20 cSt	Partition Coeff(n-octanol/water) (Log Pow)/ (Log Kow):	No data available
Viscosity, dynamic	No data available	Relative vapor density at 20°C	No data available

10. Stability & Reactivity Information

REACTIVITY:

Upon combustion: CO and CO₂ are formed.

CHEMICAL STABILITY:

Stable under normal conditions.

POSSIBILITY OF HAZARDOUS REACTIONS:

Refer to section 10 on Reactivity.

CONDITIONS TO AVOID:

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

INCOMPATIBLE MATERIALS:

No additional information available

HAZARDOUS DECOMPOSITION PRODUCTS:

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

11. Toxicological Information

PRIMARY ROUTE OF ENTRY: Skin and eyes contact

INFORMATION ON LIKELY ROUTES OF EXPOSURE:

Inhalation: Symptoms/effects after inhalation: Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

Skin Contact: Symptoms/effects after skin contact: May cause an allergic skin reaction.

Eye Contact: Symptoms/effects after eye contact: Serious damage to eyes.

Ingestion: Symptoms/effects after ingestion: Risk of lung oedema.

d-Limonene (5989-27-5)

LD50 oral rat > 2000 mg/kg bodyweight (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral, 14 day(s))

LD50 dermal rabbit > 5000 mg/kg bodyweight (Equivalent or similar to OECD 402, 24 h, Rabbit, Read-across, Dermal, 7 day(s))

Alkanes, C14-16 (90622-46-1)

LD50 oral rat > 5250 mg/kg Source: IUCLID

LD50 dermal rabbit > 2000 mg/kg Source: IUCLID

LC50 Inhalation - Rat > 5.8 mg/l/4h

Undeceth-5 (34398-01-1)

LD50 oral rat > 1400 mg/kg

LD50 dermal rabbit > 2000 mg/kg Source: Butch Company

Undecanol (112-42-5)

LD50 oral rat > 15800 mg/kg bodyweight (Rat, Male / female, Experimental value, Oral)

LD50 dermal rabbit 5010 – 7940 mg/kg bw/day (24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s))

LC50 Inhalation - Rat > 2.05 mg/l (EPA OPPTS 870.1300: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (vapours), 14 day(s))

ATE CLP (oral) 3000 mg/kg bodyweight

ATE CLP (dermal) 5010 mg/kg bodyweight

Dimethyl Succinate (106-65-0)

LD50 oral rat 6892 mg/kg (Rat; Experimental value)

LD50 dermal rat > 2000 mg/kg bodyweight (Rat; Experimental value; OECD 402: Acute Dermal Toxicity)

LD50 dermal rabbit > 5000 mg/kg (Rabbit)

ATE CLP (oral) 6892 mg/kg bodyweight

d-Limonene (5989-27-5)

IARC group 3 - Not classifiable

RESPIRATORY SENSITIZATION:

May cause an allergic skin reaction.

SKIN SENSITIZATION:

Not classified

GERM CELL MUTAGENICITY:

Not classified

CARCINOGENICITY:

Not classified

REPRODUCTIVE TOXICITY:

Not classified

SERIOUS EYE DAMAGE/IRRITATION:

Causes serious eye damage.

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.

SYMPTOMS/EFFECTS AFTER INHALATION:

Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.

SYMPTOMS/EFFECTS AFTER SKIN CONTACT:

May cause an allergic skin reaction.

SYMPTOMS/EFFECTS AFTER EYE CONTACT:

Serious damage to eyes.

SYMPTOMS/EFFECTS AFTER INGESTION:

Risk of lung oedema.

LIKELY ROUTES OF EXPOSURE:

Skin and eyes contact

12. Ecological Information

ECOLOGY: General: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.

d-Limonene (5989-27-5)

LC50 - Fish [1]: 720 µg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)

EC50 - Crustacea [1]: 0.307 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Semi-static system, Fresh water, Experimental value, GLP)

LC50 - Fish [2]: 702 µg/l Test organisms (species): Pimephales promelas

EC50 - Crustacea [2]: 0.51 mg/l Test organisms (species): Daphnia magna

Alkanes, C14-16 (90622-46-1)

LC50 - Fish [1]: 0.003 mg/l Source: EPISUITE

Undeceth-5 (34398-01-1)

LC50 - Fish [1]: 3.9 mg/l Source: ECOTOX

EC50 - Crustacea [1]: < 10 mg/l

ErC50 algae < 10 mg/l

Undecanol (112-42-5)

LC50 - Fish [1]: 1.04 mg/l (Equivalent or similar to OECD 203, 96 h, Pimephales promelas, Flow-through system, Fresh water, Experimental value)

EC50 - Crustacea [1]: 0.765 mg/l (Equivalent or similar to OECD 202, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, GLP)

Dimethyl Succinate (106-65-0)

LC50 - Fish [2]: 50 – 100 mg/l (LC50; OECD 203: Fish, Acute Toxicity Test; 48 h; Brachydanio rerio; Semi-static system; Fresh water; Experimental value)

EC50 - Crustacea [2]: > 100 mg/l (EC50; OECD 202: Daphnia sp. Acute Immobilisation Test; 48 h; Daphnia magna;

Static system; Fresh water; Experimental value)

Threshold limit - Algae [1]: > 100 mg/l (ErC50; OECD 201: Alga, Growth Inhibition Test; 72 h; Pseudokirchneriella subcapitata; Static system; Fresh water; Experimental value)

PERSISTENCE AND DEGRADABILITY:**d-Limonene (5989-27-5)**

Persistence and degradability: Readily biodegradable in water.

ThOD: 3.29 g O₂/g substance

Undecanol (112-42-5)

Persistence and degradability: Biodegradable in the soil. Readily biodegradable in water.

ThOD: 3.07 g O₂/g substance

Dimethyl Succinate (106-65-0)

Persistence and degradability: Readily biodegradable in water. Inherently biodegradable. Highly mobile in soil.

BIOACCUMULATIVE POTENTIAL:**d-Limonene (5989-27-5)**

BCF - Fish [1]: 864.8 l/kg (BCFBAF v3.01, Pisces, QSAR, Fresh weight)

Partition coefficient n-octanol/water (Log Pow): 4.38 (Experimental value, Equivalent or similar to OECD 117, 37 °C)

Bioaccumulative potential: Potential for bioaccumulation (4 ≤ Log Kow ≤ 5).

Alkanes, C14-16 (90622-46-1)

Partition coefficient n-octanol/water (Log Pow): 7.2 Source: IUCLID

Undeceth-5 (34398-01-1)

Partition coefficient n-octanol/water (Log Pow): 4 Source: EPISUITE

Undecanol (112-42-5)

Partition coefficient n-octanol/water (Log Pow): 4.8 (Experimental value, OECD 117: Partition Coefficient (n-octanol/water), HPLC method, 25 °C)
Bioaccumulative potential: Potential for bioaccumulation ($4 \leq \text{Log Kow} \leq 5$).

Dimethyl Succinate (106-65-0)

BCF - Fish [1]: 3.16 (BCF; BCFBAF v3.00; Pisces)

Partition coefficient n-octanol/water (Log Pow): 0.33 (Experimental value; OECD 117: Partition Coefficient (n-octanol/water), HPLC method; 40 °C)
Bioaccumulative potential: Low potential for bioaccumulation ($\text{Log Kow} < 4$).

13. Disposal Consideration**Waste treatment methods:**

Regional waste regulation: Disposal must be done according to official regulations.

Waste treatment methods: Dispose of contents/container in accordance with licensed collector's sorting instructions.

Sewage disposal recommendations: Disposal must be done according to official regulations.

Product/Packaging disposal recommendations: Disposal must be done according to official regulations.

Additional information: Do not re-use empty containers.

14. Transportation Information**Department of Transportation (DOT)**

In accordance with DOT: Not regulated for transport

Additional information

Other information: No supplementary information available.

ADR

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

15. Regulatory Information**US FEDERAL REGULATIONS:**

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory.

This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.



WARNING This product can expose you to Methanol, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

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.