



SAFETY DATA SHEET

1. Product and Company Identification

PRODUCT NUMBER:	2835	COMPANY PHONE:	1-800-241-8180
PRODUCT NAME:	LUSTER	EMERGENCY TELEPHONE:	1-800-241-8180
PRODUCT DESCRIPTION:	Automotive Cleaner & Polish	INFOTRAC:	1-800-535-5053
COMPANY INFORMATION:	PRO CHEM, INC. 1475 Bluegrass Lakes Parkway Alpharetta, GA 30004		

2. Hazards Identification

GHS CLASSIFICATION:
Skin Irrit. Category 2 H315
Eye Irrit Category 2A H319
Skin Sens Category 1 H317.
Full text of H-phrases: see Section 16

SIGNAL WORD:
WARNING

SYMBOL:



HAZARD STATEMENTS:

Causes skin irritation.
May cause an allergic skin reaction
Causes serious eye irritation

PRECAUTIONARY STATEMENTS:

Avoid breathing spray, mist
Wash thoroughly after handling.
Contaminated work clothing must not be allowed out of the workplace.
Wear eye protection, protective clothing, and protective gloves.
If on skin: Wash with plenty of water.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If skin irritation or rash occurs: Get medical advice/attention.

If eye irritation persists: Get medical advice/attention.

Take off contaminated clothing and wash before reuse.

Disposal: Dispose of contents/container to comply with local, regional, national, and international regulations.

HAZARDS NOT OTHERWISE SPECIFIED:

No additional information available.

UNKNOWN ACUTE TOXICITY:

Not applicable

3. Composition / Information on Ingredients

CHEMICAL NAME	CAS	% by Weight	Classification (GHS-US)
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	64742-47-8	3-7	Flam Liq. 4, H227 Asp. Tox. 1, H304
(+)-limonene	5989-27-5	1-5	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Skin Sens. 1, H317 Asp. Tox 1, H304
Morpholine	110-91-8	1-5	Flam. Liq 3, H226 Acute Tox 4 (Oral), H302 Acute Tox 3 (Dermal), H311 Skin corr. 1A, H314

4. First Aid Measures

EMERGENCY OVERVIEW

WARNING: If you feel unwell, seek medical advice (show the label where possible).

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.

SKIN: Take off immediately all contaminated clothing and wash it before reuse. Wash skin with plenty of water. Soap may be used. If skin irritation or rash occurs: Get medical advice/attention.

INHALATION:

Remove the victim into fresh air.

INGESTION:

Rinse mouth with water. Do NOT induce vomiting. Consult a doctor/medical service if you feel unwell.

MOST IMPORTANT SYMPTOMS AND EFFECTS, BOTH ACUTE AND DELAYED:

GENERAL: Not expected to present a significant hazard under anticipated conditions of normal use.

AFTER INHALATION: None under normal use.

AFTER SKIN CONTACT: Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

AFTER EYE CONTACT: Causes serious eye irritation.

AFTER INGESTION: Gastrointestinal complaints. Vomiting. Nausea.

INDICATIONS OF ANY IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED:

Treat symptomatically.

5. Fire-Fighting Measures

SUITABLE FIRE EXTINGUISHING MEDIA:

Carbon dioxide. Water. Foam. Dry chemical powder.

SPECIFIC HAZARDS ARISING FROM THE CHEMICAL:

Reactivity: Upon combustion: CO and CO₂ are formed.

SPECIFIC FIRE-FIGHTING METHODS:

Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers. Take account of environmentally hazardous firefighting water.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:

Do not enter fire area without proper protective equipment, including respiratory protection.

6. Accidental Release Measures

GENERAL:

Isolate from fire, if possible, without unnecessary risk.

PERSONAL PRECAUTIONS:

Protective goggles. Gloves. Protective clothing. Evacuate unnecessary personnel. Avoid contact with skin, eyes, and clothing. Ventilate spillage area. Use personal protective equipment as required.

ENVIRONMENTAL PRECAUTIONS AND CLEAN-UP METHODS:

Stop leak if safe to do so. Stop release. Ventilate area. Avoid release to the environment. Prevent entry to sewers and public waters. Contain released substance, pump into suitable containers. This material and its container must be disposed of in a safe way, and as per local legislation.

7. Handling and Storage

SAFE HANDLING:

Comply with the legal requirements. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Do not eat, drink, or smoke when using this product. Do not get in eyes, on skin, or on clothing.

HYGIENE MEASURES:

Wash thoroughly after handling. Wash contaminated clothing before reuse.

SAFE STORAGE:

Technical Measures: Comply with applicable regulations.

Storage Conditions: Keep container closed when not in use.

Incompatible Products: Oxidizing agent.

Incompatible Materials: Sources of ignition.

Storage Area: Met the legal requirements. Store in a cool area.

Special Rules on Packaging: Keep only in original container.

8. Exposure Controls / Personal Protection

CHEMICAL NAME	ACGIH TWA (ppm)	ACGIH STEL (ppm)
Morpholine (110-91-8)	20 ppm	20 ppm

PERSONAL PROTECTIVE EQUIPMENT:



EYE PROTECTION: Safety glasses.

SKIN PROTECTION: Protective clothing. Gloves.

GENERAL: Use appropriate personal protective equipment when risk assessment indicates this is necessary.

9. Physical & Chemical Properties

Appearance:	White, opaque liquid.	Flammability(solid/gas):	No data available.
Physical State:	Liquid.	Boiling Point:	No data available.
Odor:	Citrus scent.	Flash Point:	>200°F closed cup.
Odor Threshold:	No data available.	Explosion Limits:	No data available.
pH:	8.5-9	Explosive Properties:	No data available.
Melting Point:	No data available.	Vapor Pressure:	No data available.
Freezing Point:	No data available.	Relative Density:	No data available.
Viscosity(kinematic/dynamic):	No data available.	Relative Evaporation Rate:	No data available.
Specific Gravity:	1.02 g/ml	Solubility:	Miscible.
Oxidizing Properties:	No data available.	Auto-Ignition Temperature:	No data available.
Relative Vapor Density(20°C):	No data available.	Decomposition Temperature:	No data available.
VOC Content:	<5%	Log Pow:	No data available.
		Log Kow:	No data available.

10. Stability & Reactivity Information

REACTIVITY:

Upon combustion: CO and CO₂ are formed.

CHEMICAL STABILITY:

No additional information available.

POSSIBILITY OF HAZARDOUS REACTIONS:

Refer to Section 10 on Reactivity.

INCOMPATIBLE MATERIALS:

No additional information available.

CONDITIONS TO AVOID:

No additional information available.

DECOMPOSITION PRODUCTS:

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

11. Toxicological Information**ACUTE TOXICITY:** Not classified.

COMPONENTS	SPECIES	TEST RESULTS
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)		
Acute		
<i>Dermal</i>		
LD50	Rabbit	>5000 mg/kg body weight (Rabbit, Literature)
(+)-limonene (5989-27-5)		
<i>LD50</i>		
<i>Oral</i>		
	Rat	4400 mg/kg body weight (Rat; OECD 423: Acute Oral Toxicity – Acute Toxic Class Method; Literature study; > 2000 mg/kg body weight; Rat; Read-across)
<i>Dermal</i>		
LD50	Rabbit	<5000 mg/kg body weight (Rabbit; Weight of evidence; Equivalent or similar to OECD 402)
<i>ATE CLP (oral)</i>		
		4400 mg/kg body weight
Morpholine (110-91-8)		
<i>Oral</i>		
LD50	Rat	1420 mg/kg (Rat)
<i>Dermal</i>		
LD50	Rabbit	500 mg/kg (Rabbit)
<i>ATE CLP (oral)</i>		
		1420 mg/kg body weight
<i>ATE CLP (dermal)</i>		
		500.000 mg/kg body weight
<i>ATE CLP (gases)</i>		
		4500.000 ppmV/4h
<i>ATE CLP (vapors)</i>		
		11.000 mg/l/4h
<i>ATE CLP (dust, mist)</i>		
		1.500 mg/l/4h

SKIN CORROSION/IRRITATION:Causes skin irritation.
pH 8.5-9**SERIOUS EYE DAMAGE/IRRITATION:**Causes serious eye irritation.
pH 8.5-9**RESPIRATORY OR SKIN SENSITIZATION:**

May cause an allergic skin reaction.

GERM CELL MUTAGENICITY:

Not classified.

CARCINOGENICITY:

Not classified.

(+)-limonene (5989-27-5)

IARC group 3-Not Classifiable

Morpholine (110-91-8)

IARC group 3-Not Classifiable

REPRODUCTIVE TOXICITY:

Not classified.

SPECIFIC TARGET ORGAN TOXICITY (single exposure):

Not classified.

SPECIFIC TARGET ORGAN TOXICITY (repeated exposure):

Not classified.

ASPIRATION HAZARD:

Not classified.

SYMPTOMS/INJURIES AFTER INHALATION:

None under normal use.

SYMPTOMS/INJURIES AFTER SKIN CONTACT:

Causes skin irritation. May cause an allergic skin reaction. Repeated exposure may cause skin dryness or cracking.

SYMPTOMS/INJURIES AFTER EYE CONTACT:

Causes serious eye irritation.

SYMPTOMS/INJURIES AFTER INGESTION:

Gastrointestinal complaints. Vomiting. Nausea.

12. Ecological Information**Hydrocarbons, C11-C14, n-alkanes, cyclics, <2% aromatics (64742-47-8)**

LC50 fish 1	>100 mg/l (Pisces)
EC50 Daphnia 1	>100 mg/l (Invertebrata)
Threshold limit algae 1	>100 mg/l (Algae)

(+)-limonene (5989-27-5)

LC50 fish 1	720 µg/l (96 h; Pimephales promelas; Lethal)
EC50 Daphnia 1	0.36 mg/l (48 h; Daphnia magna; GLP)
LC50 fish 2	702 µ/l (96 h; Pimephales promelas)

Threshold limit algae 1	150 mg/l (72 h; Desmodesmus subspicatus; GLP)
Threshold limit algae 2	2.62 mg/l (72 h; Desmodesmus subspicatus)
Morpholine (110-91-8)	
LC50 fish 1	180 mg/l (96 h; Salmo gairdneri (Oncorhynchus mykiss); Soft water)
LC50 other aquatic organisms 1	100-1000 mg/l (96 h)
EC50 Daphnia 1	119 mg/l (24 h; Daphnia magna)
LC50 fish 2	350 ppm (96 h; Lepomis macrochirus; Soft water)
TLM fish 1	100-1000, 96 h; Pisces
TLM other aquatic organisms 1	100-1000, 96 h
Threshold limit other aquatic organisms 1	100-1000, 96 h
Threshold limit algae 1	4.1 mg/l (192 h; Scenedesmus quadricauda)
Threshold limit algae 2	1.7 mg/l (168 h; Microcystis aeruginosa)
PERSISTENCE and DEGRADABILITY:	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Persistence and degradability	Readily biodegradable in water. Absorbs into the soil.
(+)-limonene (5989-27-5)	
Persistence and degradability	Readily biodegradable in water. Forming sediments in water. Absorbs into the soil
ThOD	3.29 g O /g substance
Morpholine (110-91-8)	
Persistence and degradability	Readily biodegradable in water. Biodegradable in the soil. Photodegradation in the air
Biochemical oxygen demand (BOD)	0.02 g O /g substance
ThOD	2.6 g O /g substance
BOD (% of ThOD)	0.009% ThOD
BIOACCUMULATIVE POTENTIAL:	
Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics (64742-47-8)	
Log Pow	6-8.2
Bioaccumulative potential	High potential for bioaccumulation (Low Kow >5).
(+)-limonene (5989-27-5)	
BCF fish 1	864.8-1022 (Pisces; Fresh weight)
Log Pow	4.38 (Experimental value; OECD 117: partition Coefficient (n-octanol/water), HPLC method; 37°C)
Bioaccumulative potential	High potential for bioaccumulation (log Kow >5)
Morpholine (110-91-8)	
BCF fish 1	<2.3 (Cyprinus carpio; Chronic)
BCF fish 2	<2.8 (Oryzias latipes; Chronic)
Log Pow	-2.55 (OECD 107: Partition Coefficient (n-octanol/water): Shake Flask Method)
Bioaccumulative potential	Low potential for bioaccumulation (BCF <500).

13. Disposal Consideration

Dispose in a safe manner in accordance with local/national regulations.

14. Transportation Information

DOT (Department of Transportation)

Not regulated for transport.

ADDITIONAL 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

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.

California Proposition 65—This product contain, or may contain trace quantities of a substance(s) known to the state of California to cause cancer and/or reproductive toxicity.

16. Other Information

Training Advice:

Normal use of this product shall imply use in accordance with the instruction on the packaging.

Full text of H-phrases:

Acute Tox. 3 (dermal)	Acute Toxicity (dermal) Category 3
Acute tox. 4 (Oral)	Acute toxicity (oral) Category 4
Asp. Tox. 1	Aspiration hazard Category 1
Eye irrit. 2A	Serious eye damage/eye irritation Category 2A
Flam. Liq. 3	Flammable liquids Category 3
Flam. Liq. R	Flammable liquids Category 4
Skin Corr. 1A	Skin corrosion/irritation Category 1A
Skin Irrit. 2	Skin corrosion/irritation category 2
Skin Sens. 1	Skin sensitization Category 1
H226	Flammable liquid and vapor
H227	Combustible liquid
H302	Harmful if swallowed
H304	May be fatal if swallowed and enters airways
H311	Toxic in contact with skin
H314	Causes severe skin burns and eye damage

H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation.

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.