

**PRO CHEM, INC.**

1475 BLUEGRASS LAKES PKWY.  
ALPHARETTA, GA 30004  
EMERGENCY/INFO # (800) 241-8180  
ADDITIONAL EMERGENCY # INFO TRAC 1-800-535-5053

**MATERIAL SAFETY DATA SHEET****SHIELD / 195701****DECEMBER 2013****PAGE 1**

HEALTH	0
FIRE	3
REACTIVITY	1
P.P.E.	G

Complies With USDL Safety and Health Regulations, (29 CFR 1910.200)

**SECTION 1 – Chemical and Company Identification****PRODUCT TYPE:** Aerosol**SECTION 2 – Composition on Ingredients**

<b>CHEMICAL CHARACTERIZATION</b>	MIXTURES
<b>Description</b>	Mixture of the substances listed below with nonhazardous additions.
<b>Dangerous components:</b>	
Distillates (petroleum), hydrotreated light	CAS: 64742-47-8 <65% EINECS: 265-149-8

**Additional information:** For the wording of the listed risk phrases refer to section 16.**SECTION 3 – Hazards Information****CLASSIFICATION OF THE SUBSTANCE OR MIXTURE**

GHS02 Flame

H222 Extremely flammable aerosol.

**Classification according to Directive 67/548/EEC or Directive 1999/45/EC:** Void**Information concerning particular hazards for human and environment:**

Warning! Pressurized container.

**LABEL ELEMENTS****GHS label elements:**

The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms:** GHS02**Signal word:** Danger**Hazard statements:** Extremely flammable aerosol.**Precautionary statements**

- Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
- Pressurized container: Do not pierce or burn, even after use.
- Do not spray on an open flame or other ignition source.
- Protect from sunlight. Do no expose to temperatures exceeding 50 °C/122 °F.

**Classification system****NFPA ratings (scale 0-4)**

Health = 0

Fire = 3

Reactivity = 1

**HMIS rating system (0-4)**

Health = 1

Flammability = 3

Reactivity = 1

**SECTION 4 – First Aid Measures**

<b>GENERAL INFORMATION</b>	No special measures required.
<b>AFTER INHALATION</b>	Supply fresh air; consult doctor in case of complaints.
<b>AFTER SKIN CONTACT</b>	Immediately wash with water and soap and rinse thoroughly.
<b>AFTER EYE CONTACT</b>	Rinse opened eye for several minutes under running water.
<b>AFTER SWALLOWING</b>	If symptoms persist consult doctor.

**SECTION 5 – Fire Fighting Measures****SUITABLE EXTINGUISHING AGENTS:**CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.**PROTECTIVE EQUIPMENT:**

Wear self-contained respiratory protective device.

**SECTION 6 – Accidental Release Measures****PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES:**

Not required.

**ENVIRONMENTAL PRECAUTIONS:**

Do not allow to enter sewers/ surface or ground water.

**METHODS AND MATERIAL FOR CONTAINMENT AND CLEANING UP:**

Absorb liquid components with liquid-binding material.

**REFERENCE TO OTHER SECTIONS:**

No dangerous substances are released.

**SECTION 7 – Handling and Storage****HANDLING****Precautions for safe handling**

- Keep away from heat and direct sunlight.
- Handle with care. Avoid jolting, friction and impact.
- No special measures required.

**Information about protection against explosions and fires:**

- Do not spray on a naked flame or any incandescent material.
- Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.



Keep ignition sources away - Do not smoke.

Use explosion-proof apparatus / fittings and spark-proof tools.

Protect against electrostatic charges.

**STORAGE****Requirements to be met by storerooms and receptacles:**

- Observe official regulations on storing packaging's with pressurized containers.
- Use only receptacles specifically permitted for this substance/product.

**Information about storage in one common storage facility:**

- Store away from foodstuffs.
- Store away from oxidizing agents.

**Further information about storage conditions:** None**SECTION 8 – Exposure Controls/Personal Protection**

- **Additional information about design of technical systems:** No further data; see item 7.
- **Components with limit values that require monitoring at the workplace:** 124-38-9 carbon dioxide (4.0%)

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PEL	9000 mg/m <sup>3</sup> , 5000 ppm
REL	Short-term value: 54.000 mg/m <sup>3</sup> , 30.000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm
TLV	Short-term value: 54.000 mg/m <sup>3</sup> , 30.000 ppm Long-term value: 9000 mg/m <sup>3</sup> , 5000 ppm

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<b>Density at 20°C (68 °F):</b>	0.83-0.84 g/cm <sup>3</sup> (6.926-7.01 lbs/gal)
<b>Solubility in / Miscibility with Water:</b>	Not miscible or difficult to mix
<b>Solvent content:</b>	
<b>Organic solvents:</b>	0.0 %
<b>Solids content:</b>	32-38 %
<b>Other information</b>	The above data are typical values and do not constitute a specification.

**Additional information:** The lists that were valid during the creation were used as basis.**PERSONAL PROTECTIVE EQUIPMENT****General protective and hygienic measures**

- The usual precautionary measures for handling chemicals should be followed.
- Immediately remove all soiled and contaminated clothing
- Do not inhale gases / fumes / aerosols.

**Breathing equipment:**

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

**Protection of hands:**

Protective gloves: The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**Penetration time of glove material:** The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

**Eye protection:** Safety glasses

**SECTION 9 – Physical and Chemical Properties****APPEARANCE:**

<b>FORM:</b>	Aerosol
<b>COLOR:</b>	Light brown
<b>ODOR:</b>	Characteristic

**Change in condition**

**Melting point/Melting range:** undetermined

**Boiling point/Boiling range:** Not applicable, as aerosol

**Flash point:** 77°C (171 °F) (TCC)

**Ignition temperature:** 210°C (410 °F)

**Auto igniting:** Product is not self igniting.

**Danger of explosion:** Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

**Explosion limits:**

<b>Lower:</b>	0.5 Vol %
<b>Upper:</b>	6.5 Vol %
<b>Vapor pressure at 20°C (68 °F)</b>	2 hPa (2 mm Hg)

**SECTION 10 – Stability and Reactivity****Thermal decomposition / conditions to be avoided:**

No decomposition if used according to specifications.

**Hazardous decomposition products:**

No dangerous decomposition products known

**SECTION 11 – Toxicological Information****Acute toxicity:****Primary irritant effect:**

**On the skin:** Repeated or prolonged skin contact with this product may produce skin irritation.

**On the eye:** May be irritating.

**Sensitization:** No sensitizing effects known.

**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EU Classification. Guidelines for Preparations as issued in the latest version:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

**SECTION 12 – Ecological Information**

**Aquatic toxicity:** No further relevant information available.

**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

**SECTION 13 – Disposal Consideration****Waste treatment methods**

• **Recommendation** Must be specially treated adhering to official regulations.

**Uncleaned packagings:**

• **Recommendation:** Disposal must be made according to official regulations.

• **Recommended cleansing agent:** Water, if necessary with cleansing agents.

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**SECTION 14 – Transport Information****Department of Transportation****(DOT) Requirements:**

- **Hazard class:** 2.1
- **Identification number:** UN1950
- **Packing group:** -
- **Proper shipping name (technical name):** AEROSOLS, flammable
- **Label 2.1**

**Land transport ADR/RID (cross-border)**

- **ADR/RID class:** 2 5F Gases
- **Danger code (Kemler):** -
- **UN-Number:** 1950
- **Packaging group:** -
- **Label 2.1**
- **UN proper shipping name:** 1950 AEROSOLS

**Maritime transport IMDG:**

- **IMDG Class:** 2.1
- **UN Number:** 1950
- **Label 2.1**
- **Packaging group:** -
- **EMS Number:** F-D,S-U
- **Marine pollutant:** No
- **Proper shipping name:** AEROSOLS

**Air transport ICAO-TI and IATA-DGR:**

- **ICAO/IATA Class:** 2.1
- **UN/ID Number:** 1950
- **Label 2.1**
- **Packaging group:** -
- **Proper shipping name:** AEROSOLS, flammable

**SECTION 15 – Regulatory Information**

- **SARA Section 355 (extremely hazardous substances)**  
None of the ingredients is listed.
- **SARA Section 313 (specific toxic chemical listings)**  
None of the ingredients is listed.
- **TSCA (Toxic Substances Control Act)**  
All ingredients are listed.
- **Prop 65 - Chemicals known to cause cancer**  
None of the ingredients is listed.
- **Carcinogen categories**
- **EPA (Environmental Protection Agency)**  
None of the ingredients is listed.
- **IARC (International Agency for Research on Cancer)**  
None of the ingredients is listed.
- **NTP (National Toxicology Program)**  
None of the ingredients is listed.
- **NIOSH-Ca (National Institute for Occupational Safety and Health)**  
None of the ingredients is listed.
- **OSHA-Ca (Occupational Safety & Health Administration)**  
None of the ingredients is listed.
- **GHS label elements**  
The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**  
GHS02

**Signal word**

Danger

**Hazard statement**

Extremely flammable aerosol.

**Precautionary statements**

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Pressurized container: Do not pierce or burn, even after use.

Do not spray on an open flame or other ignition source.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

**SECTION 16 – Other Information****Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

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