



## 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Safe-T-Line Engine Cleaner  
**RED LION PART NUMBER:** 74183  
**PRODUCT TYPE:** Cleaner  
**CHEMICAL FAMILY:** N/A

**DATE PREPARED:** 2/26/99

**CHROMATE INDUSTRIAL CORPORATION**  
 100 DaVinci Drive, Bohemia, NY 11716 • (888) 567-2206

## 2. COMPOSITION / INFORMATION ON INGREDIENTS

CHEMICAL NAME	% BY WEIGHT	OSHA PEL	ACGIH TLV	STEL	CAS #
Deionized Water	60-70	N/D	N/D	N/D	7732-18-5
Propane-Isobutane-n-Butane	1-10	1000 ppm	1000 ppm	Asphyxiant	74-98-6
Isopropanol	1-10	400 ppm	400 ppm	500 ppm	67-63-0
Acetone	1-10	1000 ppm	750 ppm	1000 ppm	67-64-1
Methyl Ethyl Ketone*	1-10	200 ppm	200 ppm	300 ppm	78-93-3
Emulsifier	1-10	N/D	Not Established	N/D	None
D-Limonene	1-10	N/D	N/D	N/D	5989-27-5

\* An asterisk (\*) indicates the toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right-to-Know Act of 1986 and 40 CFR 372.

## 3. HAZARDS IDENTIFICATION

**PRIMARY ROUTES OF ENTRY:** Inhalation, Ingestion, Skin, Eyes  
**EFFECTS OF OVEREXPOSURE:**

**INHALATION:** May cause dizziness or narcosis in high vapor concentrations. Difficulty in breathing. Long term exposure (years) to high concentrations of vapor may cause lung, liver or kidney damage. The solvents listed have been reported to affect the central nervous system. May irritate respiratory tract. Deliberately concentrating and inhaling the vapor of the contents may be harmful or fatal. Methyl ethyl ketone may cause embryotoxic effects in laboratory animals.

**INGESTION:** Vomiting. Aspiration hazard if swallowed.

**SKIN CONTACT:** Irritation, redness. Will cause defatting of skin. Effects are reversible.

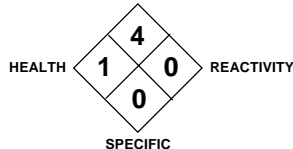
**EYE CONTACT:** Irritation.

**MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:**

Heart Disease; Respiratory Disorders.

## HAZARD RATINGS

**NFR:** FLAMMABILITY



**HMS:**

1	HEALTH
4	FLAMMABILITY
0	REACTIVITY
B	PROTECTION

**NFPA 30B RATING:** 1

## 4. FIRST AID MEASURES

**EMERGENCY FIRST AID PROCEDURES:**

**INHALATION:** Give oxygen.

**INGESTION:** Do not induce vomiting.

**SKIN CONTACT:** Wash with soap and water.

**EYE CONTACT:** Wash with water for 15 minutes. Get medical help.

## 5. FIRE FIGHTING MEASURES

**FLASH POINT (METHOD USE):** -156°F **FLAMMABLE LIMITS:** LEL 1.9 UEL 9.5

**EXTINGUISHING MEDIA:** Use water fog, dry chemical or carbon dioxide.

**FIRE FIGHTING PROCEDURES:** Keep containers cool. Use equipment or shielding required to protect against bursting or venting containers.

**UNUSUAL AND EXPLOSION HAZARDS:** Heated cans may burst.

## 6. ACCIDENTAL RELEASE MEASURES

**SPILLS OR LEAKS:** Use absorbent sweeping compound to soak up material. Put into container. Dispose as hazardous waste.

## 7. HANDLING AND STORAGE

**SPECIAL PRECAUTIONS:** Keep away from heat, sparks or open flame. Store at temperatures below 120°F. When spraying more than one half can continuously or more than one can consecutively, use NIOSH approved respirator.

---

## 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

**RESPIRATORY:** Use NIOSH approved respirator if TLV limit is exceeded.

**SKIN PROTECTION:** None required if spraying.

**EYE PROTECTION:** Wear eye protection.

**OTHER EQUIPMENT:** Long sleeve and long pants.

**EXPOSURE GUIDELINES:** Provide general and/or local exhaust ventilation.

**ENGINEERING CONTROLS:** No data available.

---

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** -7.1°F to 212°F

**VAPOR PRESSURE PSIG at 70°F:** 56

**VAPOR DENSITY (AIR = 1):** 4.0

**SOLUBILITY IN WATER:** Soluble

**PERCENT VOLATILE BY VOLUME:** N/D

**APPEARANCE AND ODOR:** Bluish/Citrus

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 0.9

**MELTING POINT:** N/A

**pH:** 10.5

**EVAPORATION RATE (BUTYL ACETATE = 1):** <1

**FORM:** Liquid **VOLATILE COMPONENTS:** N/D

---

## 10. STABILITY AND REACTIVITY

**STABILITY:** Stable

**CONDITIONS TO AVOID:** High temperatures above 120°F.

**HAZARDOUS POLYMERIZATION:** Will not occur

**INCOMPATIBILITY:** Strong oxidizers, strong alkalis, strong mineral acids.

**HAZARDOUS DECOMPOSITION OR BYPRODUCTS:** Carbon dioxide, oxides of nitrogen.

---

## 11. TOXICOLOGICAL INFORMATION

**EYE:** No data available.

**SKIN:** No data available.

**INGESTION:** No data available.

**INHALATION:** No data available.

**SUBCHRONIC:** No data available.

**CHRONIC CARCINOGENICITY:**

**NTP:** Not Listed

**IARC MONOGRAPH:** Not Listed

**OSHA REGULATED:** Not Regulated

**TERATOLOGY:** No data available.

**REPRODUCTION:** Methyl Ethyl Ketone may cause embryotoxic effects in laboratory animals.

**MUTAGENICITY:** No data available.

---

## 12. ECOLOGICAL INFORMATION

**ECOTOXICOLOGICAL INFORMATION:** No data available.

**CHEMICAL FATE INFORMATION:** No data available.

---

## 13. DISPOSAL CONSIDERATIONS

**RCRA HAZARD CLASS:** No data available.

**WASTE DISPOSAL METHOD:** Dispose as hazardous waste in accordance with EPA RCRA.

---

## 14. TRANSPORT INFORMATION

**TRANSPORTATION REQUIREMENTS (49CFR172-101)**

**D.O.T. CLASSIFICATION:** Consumer Commodity ORM-D

**D.O.T. SHIPPING NAME:** None

---

## 15. REGULATORY INFORMATION

**EXPOSURE LIMITS:** No data available.

---

## 16. OTHER INFORMATION

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in this MSDS. Additionally, vendor assumes no responsibility for injury to vendee or third persons proximately caused by abnormal use of the material even if reasonable safety procedures are followed. Furthermore, vendee assumes the risk in his use of the material.

**MSDS STATUS:** Revised 2/26/99

---

N/D — NOT DETERMINED    N/A — NOT APPLICABLE    N/R — NOT REGULATED

Conforms to 29 CFR 1910.1200, OSHA

ANSI Z129.1 - 1988 American National Standard for Hazardous Industrial Chemicals