



# MATERIAL SAFETY DATA SHEET

## SECTION 1 — PRODUCT IDENTIFICATION

**Product identifier:** Super EX Oil, Grease & Soil Remover

**Product Number:** 1110, 1130 & 1140

**Product use:** Spot cleaning of apparel and textiles.

**Manufacturer's name and address:** Refer to supplier

**Supplier name and address:**

### ***ALBATROSS USA INC./EXPERT WORLDWIDE***

36-41 36<sup>th</sup> Street  
Long Island City, New York  
United States  
11106  
718-392-6272

5439 San Fernando Road West  
Los Angeles, California  
United States  
90039  
818-543-5850

**Emergency Telephone #:** Chemtrec (Day or Night) 800-424-9300 (For Chemical Emergency: Spill, Leak, Fire, Exposure or Accident)

This MSDS complies with 29CFR 19190.1200 (Hazard Communication Standard) and WHMIS regulations.

**IMPORTANT:** Read this MSDS before handling and disposing of this product. Pass this information on to employees, customers, and users of this product.

## SECTION 2 — CHEMICAL COMPOSITION/HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>CAS #</u>	<u>% (weight)</u>	<u>OSHA PEL(ppm)</u>	<u>ACGIH TLV (ppm)</u>	<u>LC<sub>50</sub>(rat,inh) (ppm/4hr)</u>	<u>LD<sub>50</sub>(mg/kg) rat, oral dermal, rabbit</u>	
Synthetic isoparaffinic hydrocarbons	64741-66-8	15 - 40	N/Av	400 (Exxon)	N/Av	>5000	>3160
Trichloroethylene	79-01-6	60 - 100	100	50	8000	4920	>29,000

<u>SARA 313 Listed Chemicals</u>	<u>CAS #</u>	<u>% (weight)</u>
Trichloroethylene	79-01-6	60 - 100

**Chemical Family:** Halogenated Solvent Blend      **CAS No.:** Mixture

## SECTION 3 — HAZARDS IDENTIFICATION

\*\*\*POTENTIAL HEALTH EFFECTS\*\*\*

**Target organs:** Eyes, skin, respiratory system, digestive system, central nervous system

**Signs and symptoms of short-term (acute) exposure:**

**Inhalation:** Inhalation may cause irritation to the nose, throat, and respiratory system. Symptoms of overexposure may include headache, nausea, vomiting, dizziness, loss of co-ordination, coughing, shortness of breath, unconsciousness and possibly death (CNS depression). In confined or poorly ventilated areas, vapours can rapidly accumulate and cause unconsciousness and death.

**Skin contact:** Skin contact may cause moderate to severe irritation. Contact with this product may result in skin absorption.

**Eye contact:** Direct eye contact may cause severe irritation. Symptoms may include stinging, tearing, redness and swelling.

**Ingestion:** Ingestion may cause irritation to the mouth, throat and stomach. Symptoms may include nausea, vomiting, headaches and other central nervous system effects.

**Effects of long-term (chronic) exposure:** Prolonged or repeated skin exposure may cause redness, a burning sensation, drying and cracking of the skin (dermatitis).

**Other important hazards:** This product may be aspirated into the lungs after ingestion resulting in life-threatening lung damage. Excessive exposure to vapours may increase sensitivity in the upper respiratory tract, and to epinephrine increasing myocardial irritability (irregular heartbeat). May cause alcohol intolerance characterized by temporary reddening of the skin (degreaser's flush). Minimal anaesthetic or irritant effects will be seen around 200 – 400ppm for trichloroethylene. Levels at 1000 – 2000ppm may rapidly cause dizziness and drunkenness leading to unconsciousness and death. High vapour concentrations may cause liver and kidney effects.

## SECTION 4 — FIRST AID MEASURES

- Inhalation:** Immediately remove person to fresh air. If breathing stops, provide rescue breathing. If respiratory symptoms or other symptoms of exposure develop, obtain medical attention immediately.
- Skin contact:** Wash skin with soap and running water, while removing contaminated clothing. Obtain medical attention. Launder clothing before re-use.
- Eye contact:** For exposure to vapours, remove person to fresh air. If irritation or redness develops, flush eyes with water and obtain medical attention. For direct eye contact, flush eyes with running water for at least 15 minutes. Obtain medical attention.
- Ingestion:** If swallowed, DO NOT induce vomiting. Obtain medical attention immediately. This material is a potential aspiration hazard.

## SECTION 5 — FIRE FIGHTING MEASURES

**Fire hazards/conditions of flammability:** This material is not considered flammable, however, it may be ignited by heat, sparks and flame. Vapours may be heavier than air and may accumulate in low lying areas. The vapours can travel considerable distances to a source of ignition and ignite, flashback, or explode. Product may float and be re-ignited at the water's surface. May create vapour/air explosion hazard indoors, outdoors, or in sewers. Container may explode if not properly cooled during a fire. Toxic Hydrogen chloride, Chlorine and Phosgene may be released during a fire.

**Flash point (Method):** None detected. (Tag closed cup)

**Lower flammable limit (% by volume):** N/Av

**Upper flammable limit (% by volume):** N/Av

**Explosion data:**

*Sensitivity to mechanical impact:* No

*Sensitivity to static discharge:* May be sensitive to static discharge.

**Oxidizing properties:** No

**Auto-ignition temperature:** N/Av

**Suitable extinguishing media:** Use dry chemical, carbon dioxide, universal type foam and water fog.

**Special fire-fighting procedures/equipment:** Firefighters should wear proper protective equipment and respiratory protection as conditions warrant. Move containers from fire area if it can be done without risk. Water spray may only be useful in minimizing or dispersing vapours and cooling equipment exposed to heat and flame. Avoid spreading burning liquid with water spray used for cooling purposes.

**Hazardous combustion products:** Carbon oxides, hydrogen chloride, chlorine, phosgene, reactive hydrocarbons, sulfur oxides, aldehydes.

## SECTION 6 — ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Keep all other personnel upwind and away from the spill/release.

**Environmental precautions:** Ensure spilled product does not enter drains, sewers, waterways, or confined spaces. Dike far ahead of the spill for later recovery or disposal.

**Spill response/Cleanup:** Eliminate all sources of ignition and remove any hot metal surfaces. Ventilate area of release. Stop leak if you can do so without risk. Use water spray to reduce vapours. Contain and absorb with non-combustible absorbent material, then place absorbent material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

**Prohibited materials:** None known.

**Special spill response procedures:** If a spill/release in excess of EPA reportable quantity is made into the environment, immediately notify the national response center (phone: 1-800-424-8002).

DOT/CERCLA Reportable quantity: Trichloroethylene (RQ 100 lbs.)

## SECTION 7 — HANDLING AND STORAGE

**Safe handling procedures:** This material can be ignited by ignition sources, heat, sparks, and flame. Eliminate all ignition sources. Bond and ground containers, hoses and piping when transferring liquid. Keep container tightly closed when not in use. Use caution when opening cap. Do not pressurize, cut, weld, braze, solder, drill, grind or expose to heat, sparks and flame. Use in a well ventilated area. Avoid inhalation of vapours. Avoid contact with skin, eyes, and clothing. Wash thoroughly after handling.

**Storage requirements:** Store in a cool, dry, well-ventilated area away from all sources of ignition and incompatible materials. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. Keep quantity stored as small as possible. Do not store in aluminum, zinc, aluminum alloy, or plastics.

**Incompatible materials:** Strong acids or bases, oxidizing agents, selected amines, zinc, aluminum, alkali metals, halogens, anhydrides, isocyanates, acetaldehyde, chlorine, ethylene oxide, hydrogen peroxide, organometallic contaminants.

**Special packaging materials:** Not available.

## SECTION 8 — EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Ventilation and engineering controls:** Use general or local exhaust ventilation to meet TLV requirements, or where explosive mixtures are present, use electrical systems that are safe for use.

**Respiratory protection:** Respiratory protection is required if the airborne concentration exceeds the TLV. Air-purifying respirators, gas masks, or a self-contained breathing apparatus are recommended depending on the airborne concentration levels.

**Protective gloves:** Gloves impervious to the material are recommended. Advice should be sought from glove suppliers.

**Eye protection:** Safety goggles to prevent direct contact, irritation, or injury.

**Other protective equipment:** Uniform, and eyewash station.

**Permissible exposure levels:** See Section 2.

## SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

**Physical form, colour and odour:** Clear, colourless liquid, solvent odour.

**Odour threshold:** Not Available.

**pH:** Not Available.

**Boiling point:** 202 - 470°F (94 - 243°C)

**Specific gravity (@68°F / 20°C) or relative density (water = 1):** 1.288

**Melting/freezing point:** Not Available.

**Coefficient of oil/water distribution:** Not Available.

**Vapour pressure:** 57.3 mm Hg @ 20°C

**Solubility in water (%):** negligible (estimated)

**Vapour density:** Not Available.

**Evaporation rate (n-Butyl acetate=1):** >1

**Volatile organic compounds (VOC's):** 1096.3 g/L (>0.44 Lbs / Sq. In.)  
1287.5 g/L (Total VOC's)

**Percent Volatile by Weight:** 95.2 (>0.44 Lbs / Sq. In.)  
100 (Total VOC's)

## SECTION 10 — REACTIVITY AND STABILITY DATA

**Stability and reactivity:** Stable under the recommended storage and handling conditions prescribed. This product may slowly decompose when exposed to direct sunlight, heat and moisture. Hazardous polymerization will not occur.

**Conditions to avoid:** Static discharge, heat, open flame, direct sunlight, air and moisture.

**Materials to avoid:** Incompatible materials (see Section 7).

**Hazardous decomposition products:** Hydrogen chloride gas, hydrogen chloride, phosgene, dichloroacetyl chloride, dichloroacetic acid.

## SECTION 11 — TOXICOLOGICAL INFORMATION

**LD<sub>50</sub>:** See Section 2

**LC<sub>50</sub>:** See Section 2

**Routes of exposure:** Skin contact, eye contact, absorption, inhalation, and ingestion.

**Toxicological data:** There is no available data for the product itself, only for the ingredients.

**Carcinogenicity:** Trichloroethylene is classified as probably carcinogenic to humans by IARC (Group 2A), and is regulated as an OSHA Select Carcinogen.

**Teratogenicity, mutagenicity, other reproductive effects:** Contains Trichloroethylene. Trichloroethylene may cause reproductive effects and mutagenic effects of non-reproductive cells.

**Sensitization to material:** None known.

**Conditions aggravated by exposure:** Pre-existing skin disorders, lung (asthma-like) disorders, cardiovascular disease.

**Synergistic materials:** Alcohol.

## SECTION 12 — ECOLOGICAL INFORMATION

**Environmental effects:** The product should not be allowed to enter drains or water courses or be deposited where it can affect ground or surface waters.

**Important environmental characteristics:** N/Av

**Aquatic toxicity:** There is no data available on the product itself.

## SECTION 13 — WASTE DISPOSAL

**Handling for disposal:** Handle waste according to recommendations in Section 7.

**Methods of disposal:** 'Empty' drums should be completely drained, properly bunged, and promptly shipped to the supplier or drum reconditioner. All other containers should be disposed of in accordance with all applicable federal, provincial, state, and local regulations.

## SECTION 14 — TRANSPORTATION INFORMATION

**Transportation of Dangerous Goods Clear Language (CLR) information:**

*Shipping description:* TOXIC LIQUID, ORGANIC, N.O.S. (Trichloroethylene), Class 6.1, UN2810, PGIII.

*Other Shipping Information:* Limited Quantity exemption may apply. Under the CLR, refer to Section 1.17 for Limited Quantity Shipping Information, if shipping under this exemption (5 Litre Quantity or less).

**49 CFR information:**

*Shipping description:* Compound, Cleaning Liquid Consumer Commodity (1 gal container only)  
DOT Hazard Class: ORM-D

Toxic liquid, organic, n.o.s. (Contains Trichloroethylene), 6.1, UN2810, PGIII  
(for 5 gal or 55 gal drums)  
DOT Hazard Class: 6.1

**International Dangerous Goods information:**

*IMO:* Toxic liquid, organic, n.o.s.\* (Trichloroethylene), Class 6.1, UN2810, PGIII

*ICAO:* Toxic liquid, organic, n.o.s.\* (Trichloroethylene), Class 6.1, UN2810, PGIII

## SECTION 15 — REGULATORY INFORMATION

**WHMIS information:** **D1B** (*Toxic*), **D2A** (*Suspect cancer hazard, Reproductive hazard*), **D2B** (*Eye and skin irritant, Suspect mutagenic hazard*).

*This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.*

**CEPA information:** All of the ingredients are listed on the DSL/NDSL.

**TSCA information:** All ingredients are listed on the TSCA inventory.

**SARA Section 302, 304:** None

**Section 311, 312:** Acute, Chronic

**Section 313:** See Section 2

**RCRA:** Contains F001 Waste if used in degreasing, or F002 Waste if used in other applications.

**California Proposition 65:** This product contains Trichloroethylene (CAS# 79-01-6). Trichloroethylene is known to the state of California to cause cancer.

**HMIS:** Health \*2

Flammability 1

Reactivity 0

## SECTION 16 — OTHER INFORMATION

<b>Legend:</b>	N/Ap – Not Applicable OSHA – Occupational Safety and Health Act	N/Av – Not Available Inh – Inhalation
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TLV – Threshold Limit Value

TSCA – Toxic Substances Control Act

DSL – Domestic Substances List

NDSL – Non-Domestic Substances List

IMO – International Maritime Organization

CAS – Chemicals Abstract Service

ICAO – International Civil Aviation Organisation PEL – Permissible Exposure Limit

CFR – United States Code of Federal Regulations

SARA – Superfund Amendments &amp; Reauthorization Act

IARC – International Agency for Research on Cancer

CEPA – Canadian Environmental Protection Act

NIOSH – National Institute for Occupational Safety and Health

ACGIH – American Conference of Governmental Industrial Hygienists

EPA – United States Environmental Protection Agency

DOT – United States Department of Transportation

CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act (EPA)

OEHHA – Office of Environmental Health Hazard Assessment

WHMIS – Workplace Hazardous Material Information System

**References:** ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2002.

International Agency for Research on Cancer Monographs, Supplement 7, 1988.

Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2002 (Chempendium and RTECs).

Material Safety Data Sheets from manufacturer.

US EPA Title III List of Lists – October 2001 version.

California's OEHHA Proposition 65 List – June 28, 2002 version.

**Prepared by:** Albatross USA Inc.**Telephone number:** 718-392-6272**Preparation date:** December 11, 2002.**Revision Date:** March 23, 2004**Revision information:** Section 9, Physical and Chemical Properties updated 01/28/03. Boiling point, Specific gravity, VOC and Vapour pressure information was changed.**NOTICE:**

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