

MATERIAL SAFETY DATA SHEET
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EMERGENCY PHONE NO.: (FOR SPILL, LEAK, FIRE,
EXPOSURE OR ACCIDENT): 1-800-535-5053

*****RAWNCLEAN 11179, 11185*****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Rawnclean (aerosol)
PRODUCT DESCRIPTION: Super-strength degreasing solvent. Non-flammable, non-conductive, high dielectric strength - quickly removes grease, grime, oils and dirt. No flash/fire point. *May damage plastics - test for compatibility!*
RESTRICTIONS: Non-restricted

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	CAS#	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
Trichloroethy-Lene	79-01-6	50 ppm	4.9 g/kg (rat)
Carbon Dioxide	124-38-9	5000 ppm	N.E.

Carcinogenic: OSHA = no NTP = no IARC = no

SECTION III - PHYSICAL DATA

APPEARANCE: Transparent, colorless liquid
ODOR: Ethereal odor
BOILING POINT: 186 degrees F. (85.56 degrees C.)
VAPOR DENSITY (Air = 1): >1
VAPOR PRESSURE: 4380 mmHg
SOLUBILITY IN WATER: Nil
SPECIFIC GRAVITY: 1.46
EVAPORATION RATE (Ether = 1): <1

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health - 2, Fire - 1, Reactivity - 0
FLASH POINT : No flash using standard methods
FLAMMABLE LIMITS: LEL: 8% UEL: 11%
EXTINGUISHING MEDIA: Water fog or as suitable for surrounding media
UNUSUAL FIRE AND EXPLOSION HAZARDS: Volatile liquid; can be ignited by high-intensity sources of heat such as sparks and flames when vapor / air mixtures fall within LEL-UEL range. Heated containers may over-pressurize and fail explosively.
SPECIAL FIRE FIGHTING PROCEDURES: Fire fighters should wear self-contained breathing apparatus and protective clothing. Cool fire-exposed containers and disperse vapors with water fog.

SECTION V - HEALTH HAZARD DATA

EMERGENCY AND FIRST AID PROCEDURES:
Eye Contact: Flush eyes with water for at least 15 minutes. Consult a physician immediately. Skin Contact: Wash affected area with soap and water. If irritation develops or persists, consult a physician. Inhalation: Remove victim to fresh air, administer oxygen if necessary. If victim has stopped breathing, begin CPR, get immediate medical attention. Ingestion: If liquid is swallowed, get immediate medical attention. DO NOT induce vomiting unless directed

by physician. If spontaneous vomiting occurs, keep victim's head below hips to prevent aspiration of vomitus into lungs.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Cardiovascular disease, pre-existing skin conditions
PRIMARY ROUTES OF ENTRY: Inhalation, skin and eye contact.
HEALTH HAZARDS (acute and chronic) / EFFECTS OF OVEREXPOSURE: Excessive inhalation of high vapor concentrations may cause dizziness, weakness, fatigue, nausea, headache, unconsciousness. Extreme inhalation overexposures may cause asphyxiation. Ingestion can result in CNS depression. Material is an aspiration hazard - liquid contact with lungs can result in chemical pneumonitis which may be fatal.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions) Hydrochloric acid, hydrofluoric acid, phosgene, oxides of carbon and unidentifiable organics
INCOMPATIBILITY: Avoid contact with strong acids, alkalis, reactive metals, sodium, calcium, magnesium, zinc, lithium shavings, etc., and strong oxidizing agents.
CONDITIONS TO AVOID: Avoid contact with heat, sparks, electric arcs, superheated surfaces or open flames.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Immediately eliminate potential sources for ignition, ventilate area. Take up spills on an inert, absorbent material and place into a closed-top, DOT approved waste container for disposal. Prevent spilled material from entering sewers or drains.
WASTE DISPOSAL: Dispose of waste or unwanted product in accordance with all existing Federal, State and Local environmental regulations. May be reclaimed or incinerated by permitted facilities.

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Mechanical (general) ventilation may be adequate in many instances of use; a NIOSH approved organic respirator is recommended if established exposure limits are exceeded. Wear a NIOSH approved positive pressure, air-supplied respirator in high vapor concentrations or oxygen-deficient atmospheres.
PROTECTIVE GLOVES: Viton (limited service only)
EYE PROTECTION: Safety glasses, splash goggles, face shield
OTHER PROTECTIVE EQUIPMENT: Eye wash station.

SECTION IX - SPECIAL PRECAUTIONS AND STORAGE DATA

PRECAUTIONS TO BE TAKEN IN HANDLING: Avoid eye and skin contact with liquid. Avoid excessive inhalation of vapors. Use in a well-ventilated environment. Intentional inhalation of contents is harmful and may be fatal.
PRECAUTIONS TO BE TAKEN IN STORING: Store containers below 120°F (48°C), away from heat sources, open flame, out of direct sunlight.

SECTION X - SHIPPING INFORMATION

U.N./N.A NUMBER: UN1950
DOT SHIPPING NAME: (DOT): Aerosols, non-flammable, (each not exceeding 1L capacity); (IATA): Aerosols, Non-flammable, containing substances in Division 6.1, Packing Group III (each not exceeding 1L capacity).
DOT/IATA HAZARD CLASS: (DOT): 2.2; (IATA): 2.2, Sub 6.1.

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DOT REQUIRED LABELS: (*DOT, ground mode*): 2, Non-flammable gas; (*IATA*): 2, Non-flammable gas, 6 Toxic.

DOT EXCEPTION: See code 49 section 172.101, column (8A). Section 173.306(h) permits "limited quantity" materials (inner packagings which do not exceed 1L / 61 cubic inches capacity and for which internal pressures do not exceed 180 psig at 130 degrees F.) meeting section 171.8 definition of "consumer commodity" to be renamed "Consumer commodity" and reclassified as ORM-D when shipped via ground mode, domestically.

IMDG SHIPPING NAME: Aerosols, non-flammable, (each less than 1L capacity)

FREIGHT CLASS: NMFC 43940, Sub

LTL: 85

TL: 50

MW: 30

T.S.C.A. STATUS: All components listed

PREPARED BY: Roger Hanson

DATE PREPARED: 03-20-00

SUPERSEDES: 01-26-00

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N.E. = NOT ESTABLISHED
APPLICABLE

N.A. = NOT