

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

***** RAWN PROPYL 62305, 62306 *****

SECTION I - PRODUCT IDENTIFICATION

PRODUCT NAME: Rawn Propyl (liquid)
PRODUCT DESCRIPTION: 99.95+% purity anhydrous alcohol. Moderate evaporation rate, does not deplete ozone. Cleans light oils from tape heads, PC boards, printed circuit boards, contacts, connectors, etc. **Flammable – not for use on energized equipment!**
RESTRICTIONS: Non-restricted

SECTION II - HAZARDOUS INGREDIENTS

INGREDIENT NAME(S)	CAS#	OCCUPATIONAL EXPOSURE LIMITS	
		TLV OR PEL	ORAL LD-50
Isopropyl Alcohol	67-63-0	400 ppm	N/E

Carcinogenic: **OSHA** = no **NTP** = no **IARC** = no

SECTION III - PHYSICAL DATA

APPEARANCE: Clear, transparent liquid
ODOR: Alcoholic
BOILING POINT: 180 degrees F. (82.22 degrees C.)
VAPOR DENSITY (Air =1): 2.0
VAPOR PRESSURE: 33 mmHg
SOLUBILITY IN WATER: Complete solubility
SPECIFIC GRAVITY: 0.79
Evaporation rate (n-BuAc = 1): 7.7

SECTION IV - FIRE AND EXPLOSION DATA

HMIS RATING: Health – 1, Fire – 3, Reactivity - 0
FLASH POINT: 53 degrees F. (11.66 degrees C.)
FLAMMABLE LIMITS: LEL: 2.0 UEL: 12.0
EXTINGUISHING MEDIA: Alcohol foam, dry chemical, CO2
UNUSUAL FIRE AND EXPLOSION HAZARDS: Flammable liquid; vapors may travel considerable distances to ignition sources to flash or explode. The liquid burns with a nearly invisible flame.
SPECIAL FIRE FIGHTING PROCEDURES: Firefighters should wear self-contained breathing apparatus and protective clothing. Cool fire-exposed containers 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. Skin Contact: Wash affected area with soap and water. If irritation 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, call a physician immediately; DO NOT induce vomiting unless physician directed. 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: This material has been found to cause liver abnormalities in laboratory animal studies.

SECTION VI - REACTIVITY DATA

STABILITY: Stable under normal use and storage conditions.
HAZARDOUS POLYMERIZATION: Will not occur.
HAZARDOUS DECOMPOSITION PRODUCTS (under fire conditions): Oxides of carbon
INCOMPATIBILITY: Avoid strong oxidizers, halogens, inorganic acids, aldehydes and halogen compounds.
CONDITIONS TO AVOID: Avoid heat, flame, all ignition sources.

SECTION VII - SPILL OR LEAK PROCEDURES

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

SECTION VIII - SAFE HANDLING AND USE INFORMATION

RESPIRATORY PROTECTION: Not normally required; mechanical (general) ventilation is generally adequate. A NIOSH approved organic vapor respirator may be worn in nuisance-level vapors, a positive pressure, air-supplied respirator is recommended in high vapor concentrations or oxygen-deficient atmospheres.
PROTECTIVE GLOVES: Chemical resistant rubber or plastic.
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, all other potential ignition sources and out of direct sunlight. Keep containers tightly capped.

SECTION X – SHIPPING DATA

DOT SHIPPING NAME: Isopropanol
U.N./N.A. NUMBER: UN1219
PACKING GROUP: PG II
DOT HAZARD CLASS: 3
DOT REQUIRED LABEL: 3, Flammable liquid (air shipment only).
DOT EXCEPTION: (**Part no. 62305 only**) See Code 49 section 172.101, exception (8A); section 173.150(c) permits this material, when packaged as "limited quantity" (inner packagings of the combination packaging not exceeding 1.0 L / 0.3 gallons each, packaged in strong outer packagings) and meeting section 178.1 definition of "consumer commodity" to be renamed "Consumer commodity", reclassified as ORM-D material when shipped via ground mode, domestically. (**Part no. 62306 (gallon) does not qualify for exception**)
FREIGHT CLASS: NMFC 48580, Sub 3
LTL: 55
MW: 36
T.S.C.A. STATUS: All components listed

TL: 35

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PREPARED BY: Roger Hanson
DATE PREPARED: 01-13-00 SUPERSEDES: 10-13-99

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N.E. = NOT ESTABLISHED N.A. = NOT APPLICABLE