

Safety Data Sheet

Propyl Alcohol, N-(1-Propanol)

Section 1: IDENTIFICATION OF SUBSTANCE/AND OF SUPPLIER

Product Name: CleanScreen **Product ID:** CLEANER.Kit
Suppliers Name: RCI Operating CO LLC DBA RC Imaging
Suppliers Address: 50 Old Hojack Lane Hilton, NY 14468
Emergency Phone: 800.528.6311 **Other Calls:** 585.392.4336
Fax: 585.392.5575
Product Identifier: n-Propyl alcohol
Synonyms: Ethyl carbinol, 1-Propanol, n-Propanol, Propyl alcohol
Recommended use of the chemical and restrictions on use: General use organic solvent

Section 2: HAZARD IDENTIFICATION

OSHA Hazards: Flammable liquid, Target Organ Effect, Irritant

Target Organs: Nerves., Liver

HS Classification:

Flammable liquids (Category 2)
 Acute toxicity, Inhalation (Category 5)
 Skin irritation (Category 3)
 Serious eye damage (Category 1)
 Specific target organ toxicity - single exposure (Category 3)

GHS Label elements, including precautionary statements:

Pictogram:

Signal word: Danger

Hazard statement(s)

H225	Highly flammable liquid and vapor.
H316	Causes mild skin irritation.
H318	Causes serious eye damage.
H333	May be harmful if inhaled.
H336	May cause drowsiness or dizziness

Precautionary statement(s)

P210	Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
P261	Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.
P280	Wear protective gloves/ eye protection/ face protection.
P305 + P351 + P338 IF IN EYES:	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. HMIS Classification

Health hazard: 2

Chronic Health Hazard: *

Flammability: 3

Physical hazards: 0

NFPA Rating

Health hazard: 2

Fire: 3

Reactivity Hazard: 0

Potential Health Effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation. Vapours may cause drowsiness and dizziness.
Skin May be harmful if absorbed through skin. Causes skin irritation.
Eyes Causes eye irritation.
Ingestion May be harmful if swallowed.

Section 2: COMPOSITION AND INFORMATION ON INGREDIENTS:

Concentration	Chemical Name	CAS
100%	n-Propyl alcohol	71-23-8

Section 4: FIRST AID MEASURES:

Eyes: Flush with water for at least 15 minutes

Ingestion: Aspiration hazard. Do NOT induce vomiting. Give large amounts of water. Never give anything by mouth to an unconscious person.

Get medical attention

Inhalation: Remove to fresh air.

Skin: Flush affected area with water

Notes to physicians or first aid providers: Symptoms may be delayed.

Section 5: FIRE-FIGHTING MEASURES

Flamable Properties:

Flash Point: F: 73.4F C: 23.0 C

Flash Point Method: TCC Lower Explosive Limit: 2.1 Upper Explosive Limit: 13.5

General fire Hazards: Flammable liquid and vapor. USE WATER WITH CAUTION.

Extinguishing Media: Carbon dioxide, dry chemical, alcohol foam, water mist or fog.

Special Information: Wear NIOSH/MSHA approved self-contained breathing apparatus and full protective equipment/heat will build pressure and may rupture closed storage containers.

Unusual fire and explosion hazards: Volatile and flammable.

Advice for firefighters: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Keep unopened containers cool by spraying with water.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Wear appropriate personal protective equipment.

Environmental precautions:

Avoid release into the environment.

Methods and materials for containment and cleaning up:

Contain spill. Keep container closed.

Section 7: HANDLING AND STORAGE

Precautions for safe handling:

Avoid breathing high vapor concentrations. Do not get in eyes and avoid contact with skin and clothing. Do not swallow. Use only with adequate ventilation. Wash thoroughly after handling.

Environment precautions:

Keep container tightly closed in well-ventilated area.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Occupational exposure limits:

Component	Source	Type	Value	Note
Propyl Alcohol	ACGIH	TWA	200ppm	ACGIH Threshold Limit Value
Propyl Alcohol	US(OSHA)	TWA	200ppm, 500 mg/m3	29 CFR 1910.1000 Table Z-1 Limits for Air Contaminants
Propyl Alcohol	ACGIH	STEL	400ppm	ACIH Threshold Limit Value

Appropriate engineering controls:

General room or local exhaust ventilation is usually required to meet exposure limit(s).

Individual protection measures, such as personal protective equipment:

Respiratory protection:

(US) Where risk assessment shows air-purifying respirators are appropriate, use a full-face respirator with multi-purpose combination or type ABEK (EN14387). Contact health and safety professional or manufacturer for specific information.

Skin/Hand protection:

Handle with gloves. Contact health and safety professional manufacturer for specific information.

Eye protection:

Use chemical safety goggle and/or a full face shield.

Hygiene measures:

Observe good industrial hygiene.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance (physical state, color, etc.)	Liquid, colorless, clear.
Odor	Alcohol
pH	8.5 at 200 g/l at 20C (68F)
Freezing point	-126 C (-195 F)
Boiling point	97 C (207 F)
Flash point	15C (59 F)-Closed Cup
Evaporation rate	1
Flammability (solid, gas)	Flammable
Upper/Lower flammability limits	4% (V)/19.9% (V)
Vapor pressure	19.3 hPa (14.5 mmHg) at 20 C (68F)
Vapor Density	2.1
Relative Density	1.049 g/mL at 25 C (77F)
Solubility(ies)	Completely soluble
Partition coefficient n-octanol/water(ies)	Log Pow:: 0.25-0.34
Auto-ignition temperature	463 C (867 F)
Formula (Propyl Alcohol)	C3H8O

Molecular Weight (Propyl Alcohol)	60.1 g/mol
-----------------------------------	------------

Section 10: STABILITY AND REACTIVITY
Stability:

Stable under recommended storage conditions.

Hazardous Decomposition Products:

Incomplete combustion can generate carbon monoxide and other toxic vapors.

Possibility of hazardous reactions:

Vapor may form explosive mixture with air.

Incompatibilities:

Strong acids, strong oxidizing agents, reactive metals including aluminum which can displace hydrogen.

Conditions to Avoid:

Heat, sparks, flames, ignition sources, open containers, incompatibles, poor ventilation and moisture.

Section 11: TOXICOLOGICAL INFORMATION
Carcinogenicity:

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable or confirmed human carcinogen by IARC

Acute Toxicity:

LC50 (Inhalation)	Rat	20000 ppm	1 h
LD50 (Oral)	Rat	8038 mg/kg	

Irritation:

Eyes: Rabbit-mild eye irritation

Skin: Rabbit-mild skin irritation

Other Hazards:

Organ	Description
Eyes	Causes eye burns. Causes severe eye burns.
Ingestion	May be harmful if swallowed.
Inhalation	May be harmful if inhaled. Will cause respiratory tract irritation, drowsiness, and dizziness.
Skin	May be harmful if inhaled. Will cause respiratory tract irritation, drowsiness, and dizziness.

Section 12: ECOLOGICAL INFORMATION

None specified by manufacturer.

Section 13: DISPOSAL INFORMATION

Refer to applicable regional, state and federal codes.

Section 14: TRANSPORT INFORMATION
Domestic (Land, DOT)-

Hazard Class: 3 UN/NA ID Number: UN1274

Proper Shipping Name: N-Propanol or Propyl Alcohol Normal

Packing Group: II Label: Flammable Liquid

International (Water, IMO)-

Hazard Class: 3.2 UN/NA Number: 1274

Proper Shipping Name: Normal-Propyl Alcohol

Packing Group: II

International (Aor, IATA)-

Hazard Class: 3 UN/NA ID Number: 1274

Proper Shipping Name: N-Propanol

Label: Flammable Liquid

Section 15: REGULATORY INFORMATION

Safety, health, and environmental regulations/legislation specific for the substance or mixture:

OSHA Hazards:

Flammable liquid, Target Organ Effect, Irritant

SARA 302 Components:

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 313 Components:

This material does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels established by SARA Title III, Section 313.

SARA 311/312 Hazards:

Acute Health Hazard, Chronic Health Hazard, Fire Hazard

CERCLA

No chemicals in this material with known CAS numbers are subject to the reporting requirements of CERCLA

Section 16: OTHER INFORMATION

DISCLAIMER: THE INFORMATION ON THIS MATERIAL SAFETY DATA SHEET (MSDS) IS BELIEVED TO BE CORRECT AS OF THE DATE ISSUED. ROCHESTER CASSETTE MAKES NO WARRANTIES; EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THESE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. IT IS THE USER'S OBLIGATION TO DETERMINE THE CONDITIONS OF SAFE USE OF THE PRODUCT.