

Safety Data Sheet

according to 29CFR1910/1200 and GHS Rev. 3

Effective date : 01.08.2015

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n-Propyl Alcohol, Reagent grade

SECTION 1: Identification of the substance/mixture and of the supplier

Product name: n-Propyl Alcohol, Reagent grade

Manufacturer/Supplier Trade name:

Manufacturer/Supplier Article number: S25507

Recommended uses of the product and restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific, Inc
9 Barnhart Drive, Hanover, PA 17331
(717) 632-1291

Supplier Details:

Fisher Science Education
6771 Silver Crest Road, Nazareth, PA 18064
(724)517-1954

Emergency telephone number:

Fisher Science Education
Emergency Telephone No.: 800-255-3924

SECTION 2: Hazards identification

Classification of the substance or mixture:



Flammable

Flammable liquids, category 2



Corrosive

Serious eye damage, category 1



Irritant

Specific target organ toxicity following single exposure, category 3

Flammable liq. 2.

Eye Damage. 1.

Stot SE. 3.

Signal word: Danger

Hazard statements:

Highly flammable liquid and vapour.

Causes serious eye damage.

May cause drowsiness or dizziness.

Precautionary statements:

If medical advice is needed, have product container or label at hand.

Keep out of reach of children.

Read label before use.

Keep container tightly closed.

Keep away from heat/sparks/open flames/hot surfaces. No smoking.

Ground/bond container and receiving equipment.

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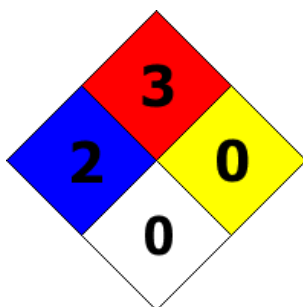
Use explosion-proof electrical/ventilating/light/.../equipment.
Use only non-sparking tools.
Take precautionary measures against static discharge.
Use only outdoors or in a well-ventilated area.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/fume/gas/mist/vapours/spray.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER or doctor/physician.
In case of fire: Use ... for extinction.
Call a POISON CENTER or doctor/physician if you feel unwell.
Store in a well ventilated place. Keep container tightly closed.
Store in a well ventilated place. Keep cool.
Store locked up.
Dispose of contents/container to

Other Non-GHS Classification:

WHMIS



NFPA/HMIS



NFPA SCALE (0-4)

Health	2
Flammability	3
Physical Hazard	0
Personal Protection	X

HMIS RATINGS (0-4)

SECTION 3: Composition/information on ingredients

Ingredients:

CAS 71-23-8	n-Propyl Alcohol	100 %
Percentages are by weight		

SECTION 4: First aid measures

Description of first aid measures

After inhalation:

Move exposed individual to fresh air. Loosen clothing as necessary and position individual in a comfortable position. If breathing is difficult give oxygen. Get medical assistance.

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After skin contact:

Wash affected area with soap and water. Wash hands and exposed skin with soap and plenty of water for 15-20 minutes. Remove contaminated clothing and shoes while rinsing. Seek medical attention if irritation persists or if concerned. Before wearing wash contaminated clothing.

After eye contact:

Protect unexposed eye. Immediately flush eyes with water for at least 15 minutes. Immediately get medical assistance.

After swallowing:

Rinse mouth thoroughly. Do not induce vomiting. Immediately get medical assistance.

Most important symptoms and effects, both acute and delayed:

Shortness of breath. Irritation. Nausea. Headache.

Indication of any immediate medical attention and special treatment needed:

If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures

Extinguishing media

Suitable extinguishing agents:

Water spray can keep containers cool. Use carbon dioxide, dry chemical, or foam.

Unsuitable extinguishing agents:

Water may be ineffective.

Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

Advice for firefighters:

Protective equipment:

Wear protective eyewear, gloves, and clothing. Refer to Section 8.

Additional information (precautions):

Remove all sources of ignition. Avoid contact with skin, eyes, and clothing. Take precautions against static discharges.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Use spark-proof tools and explosion-proof equipment. Ensure that dust-handling systems (exhaust ducts, dust collectors, vessels, and processing equipment) are designed to prevent the escape of dust into the work area.

Environmental precautions: None

Methods and material for containment and cleaning up:

If necessary use trained response staff or contractor. Absorb with a noncombustible absorbent material such as sand or earth and containerize for disposal. Refer to Section 13. Clean up spills immediately. Observe precautions for protective equipment. Ventilate area of leak or spill.

Reference to other sections: None

SECTION 7: Handling and storage

Precautions for safe handling:

Do not eat, drink, smoke, or use personal products when handling chemical substances. Use only in well ventilated areas. Do not eat, drink, smoke, or use personal products when handling chemical substances. Wash hands before breaks and immediately after handling the product. Do not inhale gases, fumes, dust, mist, vapor,

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and aerosols. Follow good hygiene procedures when handling chemical materials. Refer to Section 8.

Conditions for safe storage, including any incompatibilities:

Store in a cool location. Provide ventilation for containers. Avoid storage near extreme heat, ignition sources or open flame. Keep container tightly sealed.

SECTION 8: Exposure controls/personal protection



Control Parameters:

71-23-8, n-Propyl Alcohol , ACGIH: 100 ppm TWA.
71-23-8, n-Propyl Alcohol , NIOSH: 250 ppm STEL; 625 mg/m³ STEL.
71-23-8, n-Propyl Alcohol , NIOSH: 200 ppm TWA; 500 mg/m³ TWA.

Appropriate Engineering controls:

Ensure that dust-handling systems (exhaust ducts, dust collectors, vessels, and processing equipment) are designed to prevent the escape of dust into the work area. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

Respiratory protection:

Not required under normal conditions of use. Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Protection of skin:

Select glove material impermeable and resistant to the substance. Select glove material based on rates of diffusion and degradation.

Eye protection:

Safety glasses with side shields or goggles.

General hygienic measures:

Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Perform routine housekeeping.

SECTION 9: Physical and chemical properties

Appearance (physical state, color):	Clear colorless liquid	Explosion limit lower:	2.2%
Odor:	Alcohol	Explosion limit upper:	13.7%
Odor threshold:	Not Available	Vapor pressure at 20°C:	14.3 mmHg @ 20°C
pH-value:	Not Available	Vapor density:	2.1
Melting/Freezing point:	-127°C	Relative density:	Not Available
Boiling point/Boiling range:	97°C	Solubilities:	Soluble.
Flash point (closed cup):	15°C	Partition coefficient (n-octanol/water):	Not Available
Evaporation rate:	1.3	Auto/Self-ignition temperature:	405°C
Flammability (solid, gaseous):	Flammable	Decomposition temperature:	Not Available
Density at 20°C:	Not Available	Viscosity:	a. Kinematic: Not Available b. Dynamic: Not Available

SECTION 10: Stability and reactivity

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Reactivity: None

Chemical stability:

Stable under normal conditions.

Possible hazardous reactions:

None under normal processing.

Conditions to avoid:

Incompatible materials, flames, heat, and sparks.

Incompatible materials:

Strong acids. Strong oxidizers.

Hazardous decomposition products:

Carbon oxides (CO, CO₂).

SECTION 11: Toxicological information

Acute Toxicity:

Oral:

8038 mg/kg Oral LD50 Rat

Dermal:

4049 mg/kg Dermal LD50 Rabbit

Inhalation:

>13548 ppm 4 h Inhalation LC50 Rat

Chronic Toxicity: No additional information.

Corrosion Irritation:

Ocular:

Severe eye irritant.

Sensitization: No additional information.

Numerical Measures: No additional information.

Carcinogenicity: No additional information.

Mutagenicity:

Microorganisms have shown mutagenic effects.

Reproductive Toxicity:

Has occurred in experimental animals.

SECTION 12: Ecological information

Ecotoxicity:

Fish: 96 Hr LC50 Pimephales promelas: 4480 mg/L

Water Flea: 48 Hr EC50 Daphnia magna: 3642 mg/L

Water Flea: 48 Hr EC50 Daphnia magna: 3339 - 3977 mg/L

Persistence and degradability:

Expected to rapidly volatilize. Mobility: 0.25-0.34.

Bioaccumulative potential:

Not Bioaccumulative.

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Mobility in soil:

Aqueous solution has high mobility in soil.

Other adverse effects: No additional information.

SECTION 13: Disposal considerations

Waste disposal recommendations:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities (US 40CFR262.11). Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations. Ensure complete and accurate classification.

SECTION 14: Transport information

US DOT

UN Number:

ADR, ADN, DOT, IMDG, IATA

UN1274

Limited Quantity Exception:

None

Bulk:

RQ (if applicable): None

Proper shipping Name: N-PROPANOL.

Hazard Class: 3

Packing Group: II.

Marine Pollutant (if applicable): No additional information.

Comments: None

Non Bulk:

RQ (if applicable): None

Proper shipping Name: N-PROPANOL.

Hazard Class: 3

Packing Group: II.

Marine Pollutant (if applicable): No additional information.

Comments: None



SECTION 15: Regulatory information

United States (USA)

SARA Section 311/312 (Specific toxic chemical listings):

Acute, Chronic, Fire

SARA Section 313 (Specific toxic chemical listings):

None of the ingredients are listed.

RCRA (hazardous waste code):

None of the ingredients are listed.

TSCA (Toxic Substances Control Act):

All ingredients are listed.

CERCLA (Comprehensive Environmental Response, Compensation, and Liability Act):

None of the ingredients are listed.

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Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for females:

None of the ingredients are listed.

Chemicals known to cause reproductive toxicity for males:

None of the ingredients are listed.

Chemicals known to cause developmental toxicity:

None of the ingredients are listed.

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 1%):

71-23-8 n-Propyl Alcohol.

SECTION 16: Other information

This product has been classified in accordance with hazard criteria of the Controlled Products Regulations and the SDS contains all the information required by the Controlled Products Regulations. Note. The responsibility to provide a safe workplace remains with the user. The user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the user to comply with all applicable laws and regulations applicable to this material.

GHS Full Text Phrases: None

Abbreviations and Acronyms:

IMDG International Maritime Code for Dangerous Goods.
PNEC Predicted No-Effect Concentration (REACH).
CFR Code of Federal Regulations (USA).
SARA Superfund Amendments and Reauthorization Act (USA).
RCRA Resource Conservation and Recovery Act (USA).
TSCA Toxic Substances Control Act (USA).
NPRI National Pollutant Release Inventory (Canada).
DOT US Department of Transportation.
IATA International Air Transport Association.
GHS Globally Harmonized System of Classification and Labelling of Chemicals.
ACGIH American Conference of Governmental Industrial Hygienists.
CAS Chemical Abstracts Service (division of the American Chemical Society).
NFPA National Fire Protection Association (USA).
HMIS Hazardous Materials Identification System (USA).
WHMIS Workplace Hazardous Materials Information System (Canada).

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DNEL Derived No-Effect Level (REACH).

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