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 uses restrictions on use:

Manufacturer Details:

AquaPhoenix Scientific
9 Barnhart Drive, Hanover, PA 17331

Supplier Details:

Fisher Science Education
15 Jet View Drive, Rochester, NY 14624

Emergency telephone number:

Fisher Science Education Emergency Telephone No.: 800-535-5053

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
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

B2 

D2B 

NFPA/HMIS

NFPA SCALE (0-4)

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.

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.

For safety reasons 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 eyeware, 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:

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:

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

SECTION 10 : Stability and reactivity

Reactivity:
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:		
Dermal:	4049 mg/kg	Dermal LD50 Rabbit
Inhalation:	>13548 ppm 4 h	Inhalation LC50 Rat
Oral:	8038 mg/kg	Oral LD50 Rat
Chronic Toxicity: No additional information.		
Corrosion Irritation:		
Ocular:		Severe eye irritant.
Sensitization:		No additional information.
Single Target Organ (STOT):		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.
Mobility in soil: Aqueous solution has high mobility in soil.
Other adverse effects:

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

UN-Number

UN1274

UN proper shipping name

N-PROPANOL

Transport hazard class(es)

Class:
3 Flammable liquids

Packing group:II
Environmental hazard:
Transport in bulk:
Special precautions for user:

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 is listed

RCRA (hazardous waste code):

None of the ingredients is listed

TSCA (Toxic Substances Control Act):

All ingredients are listed.

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

None of the ingredients is listed

Proposition 65 (California):

Chemicals known to cause cancer:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed

Chemicals known to cause reproductive toxicity for males:

None of the ingredients is listed

Chemicals known to cause developmental toxicity:

None of the ingredients is listed

Canada

Canadian Domestic Substances List (DSL):

All ingredients are listed.

Canadian NPRI Ingredient Disclosure list (limit 0.1%):

None of the ingredients is 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:

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)
DNEL: Derived No-Effect Level (REACH)

Effective date : 01.08.2015
Last updated : 03.19.2015