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SECTION 1. IDENTIFICATION

Product identifier used on the label:
: n-Propyl Alcohol

Product Code(s):
: None assigned.

Recommended use of the chemical and restrictions on use:
: Industrial solvent.
  Use pattern: Professional use only
  Recommended restrictions: None known.

Chemical family:
: Pure substance

Name, address, and telephone number of the supplier:
Comet Chemical Company Ltd.
3463 Thomas Street
Innisfill, ON, Canada
L9S 3W4
705-436-5580

Name, address, and telephone number of the manufacturer:
Refer to supplier

SECTION 2. HAZARDS IDENTIFICATION

Classification of the chemical
Clear colourless liquid. Alcohol odour.

Most important hazards: This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015).

Hazard classification:

Flammable Liquids - Category 3
Acute toxicity, oral - Category 4
Eye Damage/Irritation - Category 1
Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects

Label elements

Hazard pictogram(s)

Signal Word

DANGER!

Hazard statement(s)

Flammable liquid and vapor.
Harmful if swallowed.
Causes serious eye damage.
May cause drowsiness or dizziness.
Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/Bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not eat, drink or smoke when using this product. Avoid breathing mist or vapor. Use only outdoors or in a well-ventilated area. Wear protective gloves and eye/face protection. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTRE or doctor/physician. If inhaled: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell. In case of fire: Use water fog, dry chemical, CO2 or ‘alcohol’ foam for extinction. Store locked up. Store in a well-ventilated place. Keep cool. Keep container tightly closed. Dispose of contents/container in accordance with local regulation. Other hazards May be sensitive to static discharge. Take measures to prevent the build up of electrostatic charge. Burning produces obnoxious and toxic fumes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May be an aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. Direct skin contact may cause slight or mild, transient irritation.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS #</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propanol</td>
<td>n-Propyl alcohol</td>
<td>71-23-8</td>
<td>100.00</td>
</tr>
<tr>
<td></td>
<td>Ethyl carbinol</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Hydroxypropane</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**SECTION 4. FIRST-AID MEASURES**

**Description of first aid measures**

**Ingestion**: Rinse mouth. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Get medical attention if symptoms persist. If vomiting occurs spontaneously, keep victim's head lowered (forward) to reduce the risk of aspiration.

**Inhalation**: If inhaled: Remove person to fresh air and keep comfortable for breathing. If breathing has stopped, give artificial respiration. If breathing is difficult, give oxygen by qualified medical personnel only. Call a POISON CENTRE or doctor/physician if you feel unwell.

**Skin contact**: Immediately flush with plenty of water, while removing contaminated clothing. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse.
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Eye contact: For eye contact, flush with running water for at least 15 minutes. If eye irritation persists: get medical advice/attention.

Most important symptoms and effects, both acute and delayed:
- Harmful if swallowed. May cause drowsiness or dizziness. Symptoms may include pain, headache, nausea, vomiting, dizziness, drowsiness and other central nervous system effects. Causes serious eye irritation. May cause respiratory irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause coughing and breathing difficulties. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal. May cause skin irritation. Symptoms may include redness, itching and swelling.

Indication of any immediate medical attention and special treatment needed:
- This product is a CNS depressant. Treat symptomatically.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media:
- Suitable extinguishing media: Carbon dioxide (CO2); Dry chemical; Alcohol resistant foam; Water fog.
- Unsuitable extinguishing media: Do not use a solid water stream as it may scatter and spread fire.

Special hazards arising from the substance or mixture / Conditions of flammability:
- Flammable liquid and vapour. Vapours may ignite explosively. Vapours are heavier than air and may spread along floors. Empty containers may contain hazardous residues.

Flammability classification (OSHA 29 CFR 1910.106):
- Flammable Liquids - Category 3

Hazardous combustion products:
- Carbon dioxide and carbon monoxide. Incomplete combustion may emit component hydrocarbons.

Special protective equipment and precautions for firefighters:
- Protective equipment for fire-fighters: Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode.
- Special fire-fighting procedures: Do not breathe fumes or vapours. Move containers from fire area if safe to do so. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Dike for water control.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:
- All persons dealing with the clean-up should wear the appropriate chemically protective equipment. Keep people away from and upwind of spill/leak. Restrict access to area until completion of clean-up. Refer to protective measures listed in sections 7 and 8.

Environmental precautions:
- Do not allow material to contaminate ground water system. If necessary, dike well ahead of the spill to prevent runoff into drains, sewers, or any natural waterway or drinking supply.

Methods and material for containment and cleaning up:
- Ventilate the area. Remove all sources of ignition. Prevent further leakage or spillage if safe to do so. Use only non-sparking tools and equipment in the clean-up process. Avoid breathing mist or vapours. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contact the proper local authorities. Refer to Section 13 for disposal of contaminated material.
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Special spill response procedures

In case of transportation accident, contact TERRAPURE ENVIRONMENTAL at 1-800-567-7455.
EPA/CERCLA Reportable quantity (RQ): None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling

Wear protective gloves/clothing and eye/face protection. Use only in well-ventilated areas. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep container tightly closed. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Keep away from flames and hot surfaces. - No smoking. Use only non-sparking tools. Take precautionary measures against static discharges. Ground all equipment during handling.

Conditions for safe storage

Keep container tightly closed. Store in cool/well-ventilated place. Store locked up. Keep cool. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Inspect periodically for damage or leaks. No smoking. Empty containers may contain hazardous residues.

Incompatible materials

Strong oxidizers (e.g. Chlorine, Peroxides, etc.).

SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Limits:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV</th>
<th>OSHA PEL</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>TWA</td>
<td>STEL</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>100 ppm</td>
<td>N/Av</td>
</tr>
</tbody>
</table>

Exposure controls

Ventilation and engineering measures

Use only in well-ventilated areas. Apply technical measures to comply with the occupational exposure limits. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. Use explosion-proof equipment. In case of insufficient ventilation wear suitable respiratory equipment.

Respiratory protection

If airborne concentrations are above the permissible exposure limit or are not known, use NIOSH-approved respirators. Respirators should be selected based on the form and concentration of contaminants in air, and in accordance with OSHA (29 CFR 1910.134) or CSA Z94.4-02. Advice should be sought from respiratory protection specialists.

Skin protection

Wear protective gloves/clothing. Where extensive exposure to product is possible, use resistant coveralls, apron and boots to prevent contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Eye / face protection

Wear tight-fitting goggles or face shield.

Other protective equipment

Ensure that eyewash stations and safety showers are close to the workstation location. Other equipment may be required depending on workplace standards.

General hygiene considerations

Avoid breathing mist or vapor. Avoid contact with skin, eyes and clothing. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not take contaminated clothing home. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Clear colourless liquid.
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Odour: Alcohol
Odour threshold: 5-11 ppm
pH: None.
Melting/Freezing point: -127°C (-196.6°F)
Initial boiling point and boiling range: 97°C (206.6°F)
Flash point: 23°C (73.4°F)
Flashpoint (Method): Closed cup
Evaporation rate (BuAe = 1): 1
Flammability (solid, gas): Not applicable.
Lower flammable limit (% by vol.): 2.1%
Upper flammable limit (% by vol.): 13.7%
Oxidizing properties: None known.
Explosive properties: Not explosive
Vapour pressure: 19.29 mbar
Vapour density: 0.805
Relative density / Specific gravity: 0.805
Solubility in water: Soluble
Other solubility(ies): Soluble in most organic solvents.
Partition coefficient: n-octanol/water or Coefficient of water/oil distribution: 1.6
Auto-ignition temperature: 413°C / 775.4°F
Decomposition temperature: No information available.
Viscosity: 2 mPa.s
Volatile (% by weight): No information available.
Volatile organic Compounds (VOC's): No information available.
Absolute pressure of container: Not applicable.
Flame projection length: Not applicable.
Other physical/chemical comments: None known or reported by the manufacturer.

SECTION 10. STABILITY AND REACTIVITY
Reactivity: Not normally reactive.
Chemical stability: Stable under normal conditions.
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid: Open flames, sparks, high heat, direct sunlight, and close proximity to incompatible substances. Do not use in areas without adequate ventilation.
Incompatible materials: Strong oxidizers (e.g. Chlorine, Peroxides, etc.).
Hazardous decomposition products: None known, refer to hazardous combustion products in Section 5.
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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure:

Routes of entry inhalation : YES
Routes of entry skin & eye : YES
Routes of entry Ingestion : YES
Routes of exposure skin absorption : YES

Potential Health Effects:

Signs and symptoms short-term (acute) exposure

Sign and symptoms Inhalation
May cause respiratory tract irritation. Coughing, difficulty breathing, and tightness in chest. May cause drowsiness or dizziness. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and in extreme cases, loss of consciousness.

Sign and symptoms ingestion
Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed. Aspiration hazard. Aspiration into the lungs during swallowing or subsequent vomiting may cause chemical pneumonitis, which can be fatal.

Sign and symptoms skin
Direct skin contact may cause slight or mild, transient irritation.

Sign and symptoms eyes
Causes serious eye damage. Symptoms may include redness, pain, tearing and conjunctivitis.

Potential Chronic Health Effects

Frequent or prolonged contact may dry the skin, leading to discomfort and dermatitis.

Mutagenicity
Not expected to be mutagenic in humans.

Carcinogenicity
No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.

Reproductive effects & Teratogenicity

Not expected to cause reproductive effects.

Sensitization to material
Not expected to be a skin or respiratory sensitizer.

Specific target organ effects
This material is classified as hazardous under U.S. OSHA regulations (29CFR 1910.1200) (Hazcom 2012) and Canadian WHMIS regulations (Hazardous Products Regulations) (WHMIS 2015). Classification: Specific Target Organ Toxicity, Single Exposure - Category 3 narcotic effects May cause drowsiness or dizziness. Not classified as specific target organ toxicity-repeated exposure.

Medical conditions aggravated by overexposure
Pre-existing skin, eye or nervous system disorders.

Synergistic materials
No information available.

Toxicological data
See below for toxicological data on the substance.

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>LC50(4hr) inh, rat</th>
<th>LD50 (Oral, rat)</th>
<th>LD50 (Rabbit, dermal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propanol</td>
<td>&gt; 13 548 ppm (33.8 mg/L) (vapour) (No mortality)</td>
<td>1870 mg/kg</td>
<td>4050 mg/kg</td>
</tr>
</tbody>
</table>

Other important toxicological hazards
None reported by the manufacturer.
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SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity: Do not allow material to contaminate ground water system. See the following tables for the substance's ecotoxicity data.

Ecotoxicity data:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS No</th>
<th>Toxicity to Fish</th>
<th>Toxicity to Daphnia</th>
<th>Toxicity to Algae</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>LC50 / 96h</td>
<td>NOEC / 21 day</td>
<td>M Factor</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>71-23-8</td>
<td>4555 mg/L (Fathead minnow)</td>
<td>N/Av</td>
<td>None.</td>
</tr>
</tbody>
</table>

Persistence and degradability: Readily biodegradable

Bioaccumulation potential: No information available.

Components:

<table>
<thead>
<tr>
<th>Components</th>
<th>Partition coefficient n-octanol/ater (log Kow)</th>
<th>Bioconcentration factor (BCF)</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propanol (CAS 71-23-8)</td>
<td>1.6</td>
<td>3</td>
</tr>
</tbody>
</table>

Mobility in soil: The product itself has not been tested.

Other Adverse Environmental effects: None known.

SECTION 13. DISPOSAL CONSIDERATIONS

Handling for Disposal: Handle in accordance with good industrial hygiene and safety practice. Refer to protective measures listed in sections 7 and 8.

Methods of Disposal: Dispose in accordance with all applicable federal, state, provincial and local regulations.

RCRA: If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.
SECTION 14. TRANSPORTATION INFORMATION

<table>
<thead>
<tr>
<th>Regulatory Information</th>
<th>UN Number</th>
<th>UN proper shipping name</th>
<th>Transport hazard class(es)</th>
<th>Packing Group</th>
<th>Label</th>
</tr>
</thead>
<tbody>
<tr>
<td>49CFR/DOT</td>
<td>UN1274</td>
<td>n-PROPANOL; or PROPYL ALCOHOL</td>
<td>3</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>49CFR/DOT Additional information</td>
<td></td>
<td>May be shipped as a Limited Quantity if inner package is 5L or less and gross mass per package is no more than 30kg.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>TDG</td>
<td>UN1274</td>
<td>PROPYL ALCOHOL</td>
<td>3</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>TDG Additional information</td>
<td></td>
<td>May be shipped as a Limited Quantity if packaged in units of 5 Litres or less and not more than 30 kg gross.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IMDG</td>
<td>UN1274</td>
<td>n-PROPANOL; or PROPYL ALCOHOL</td>
<td>3</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>IMDG Additional information</td>
<td></td>
<td>May be shipped as a Limited Quantity. Consult the IMDG regulations for details.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ICAO/IATA</td>
<td>UN1274</td>
<td>Propyl alcohol</td>
<td>3</td>
<td>III</td>
<td></td>
</tr>
<tr>
<td>ICAO/IATA Additional information</td>
<td></td>
<td>Refer to ICAO/IATA Packing Instruction</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Special precautions for user: Appropriate advice on safety must accompany the package. Keep away from heat, sparks and open flame. - No smoking.

Environmental hazards: See ECOLOGICAL INFORMATION, Section 12.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code: This information is not available.

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

Components listed below are present on the following U.S. Federal chemical lists:

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propanol</td>
<td>71-23-8</td>
<td>Yes</td>
<td>None.</td>
<td>None.</td>
<td>No</td>
</tr>
</tbody>
</table>

SARA TITLE III: Sec. 311 and 312, SDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.
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US State Right to Know Laws:

The following chemicals are specifically listed by individual States:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>California Proposition 65</th>
<th>State &quot;Right to Know&quot; Lists</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Listed</td>
<td>Type of Toxicity</td>
</tr>
<tr>
<td>n-Propanol</td>
<td>71-23-8</td>
<td>No</td>
<td>N/Ap</td>
</tr>
</tbody>
</table>

**Canadian Information:**

Canadian Environmental Protection Act (CEPA): All ingredients are present on the DSL.

WHMIS information: Refer to Section 2 for a WHMIS Classification for this product.

**International Information:**

Components listed below are present on the following International Inventory list:

<table>
<thead>
<tr>
<th>Ingredients</th>
<th>CAS #</th>
<th>European EINECs</th>
<th>Australia AICS</th>
<th>Philippines PICCS</th>
<th>Japan ENCS</th>
<th>Korea KECI/KECL</th>
<th>China IECSC</th>
<th>NewZealand IOC</th>
</tr>
</thead>
<tbody>
<tr>
<td>n-Propanol</td>
<td>71-23-8</td>
<td>200-746-9</td>
<td>Present</td>
<td>Present</td>
<td>(2)-207</td>
<td>KE-29362</td>
<td>Present</td>
<td>HSR001215</td>
</tr>
</tbody>
</table>

**SECTION 16. OTHER INFORMATION**

Legend:

- ACGIH: American Conference of Governmental Industrial Hygienists
- AICS: Australian Inventory of Chemical Substances
- ATE: Acute Toxicity Estimate
- CA: California
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CSA: Canadian Standards Association
- DOT: Department of Transportation
- ECHA: European Chemicals Agency
- ECOTOX: U.S. EPA Ecotoxicology Database
- EINECS: European Inventory of Existing Commercial chemical Substances
- ENCS: Existing and New Chemical Substances
- EPA: Environmental Protection Agency
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- IBC: Intermediate Bulk Container
- IECSC: Inventory of Existing Chemical Substances
- IMDG: International Maritime Dangerous Goods
- IOC: Inventory of Chemicals
- IUCLID: International Uniform Chemical Information Database
- KECI: Korean Existing Chemicals Inventory
- KECL: Korean Existing Chemicals List
- LC: Lethal Concentration
- LD: Lethal Dose
- MA: Massachusetts
- MN: Minnesota
- N/Ap: Not Applicable
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N/A: Not Available
NIOSH: National Institute of Occupational Safety and Health
NJ: New Jersey
NOEC: No observable effect concentration
NTP: National Toxicology Program
OECD: Organisation for Economic Co-operation and Development
OSHA: Occupational Safety and Health Administration
PA: Pennsylvania
PEL: Permissible exposure limit
PICCS: Philippine Inventory of Chemicals and Chemical Substances
RCRA: Resource Conservation and Recovery Act
RI: Rhode Island
RTECS: Registry of Toxic Effects of Chemical Substances
SARA: Superfund Amendments and Reauthorization Act
SDS: Safety Data Sheet / Material Safety Data Sheet
STEL: Short Term Exposure Limit
TDG: Canadian Transportation of Dangerous Goods Act & Regulations
TLV: Threshold Limit Values
TSCA: Toxic Substance Control Act
TWA: Time Weighted Average
WHMIS: Workplace Hazardous Materials Identification System

References:
1. ACGIH, Threshold Limit Values for Chemical Substances and Physical Agents & Biological Exposure Indices for 2015
2. International Agency for Research on Cancer Monographs, searched 2015
3. Canadian Centre for Occupational Health and Safety, CCInfoWeb databases, 2015 (Chempendium, HSDB and RTECs)
4. Material Safety Data Sheets from manufacturer.
5. US EPA Title III List of Lists
6. California Proposition 65 List

Preparation Date (mm/dd/yyyy): 12/10/2015

Other special considerations for handling:
Provide adequate information, instruction and training for operators.

Prepared for:
Comet Chemical Company Ltd.
3463 Thomas Street
Innisfill, ON L9S 3W4
Information (M-F 8:00-5:00): 705-436-5580
www.cometchemical.com

Prepared by:
ICC The Compliance Center Inc.
Telephone: (888) 442-9628 (U.S.): (888) 977-4834 (Canada)
http://www.thecompliancecenter.com

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END OF DOCUMENT