Printing date 01/18/2018

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Identification	
Product identifier	
Trade name: PNP	
Article number: 280-30-5	
CAS Number:	
1569-01-3	
<i>EC number:</i> 216-372-4	
• Details of the supplier of the safety data sheet	
Manufacturer/Supplier:	
OFI Testing Equipment Inc.	
11302 Steeplecrest Dr.	
Houston, TX 77065	
(877) 837-8683	
Information department: techservices@ofite.com	
Emergency telephone number:	
INFOTRAC USA - CANADA: 1-800-535-5053	
INTERNATIONAL: 1-352-323-3500	
P Hazard(s) identification	
Classification of the substance or mixture	
GHS02 Flame	
▼	
Flam. Liq. 3 H226 Flammable liquid and vapor.	
Flam. Liq. 3 H226 Flammable liquid and vapor.	
\mathbf{A}	
Flam. Liq. 3 H226 Flammable liquid and vapor.	
GHS07	
\mathbf{A}	
<i>GHS07</i> <i>Eye Irrit. 2A H319 Causes serious eye irritation.</i> <i>Label elements</i>	
<i>Eye Irrit. 2A H319 Causes serious eye irritation.</i> <i>Label elements</i> <i>GHS label elements The substance is classified and labeled according</i>	ording to the Globally Harmonized System (GP
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Eye Irrit. 2A H319 Causes serious eye irritation.Label elementsGHS07Causes serious eye irritation.Label elements The substance is classified and labeled accordHazard pictogramsOUTON COLSPANEOUTON COLSPANESignal word WarningHazard statementsFlammable liquid and vapor.Causes serious eye irritation.Precautionary statementsFlammable liquid and vapor.Causes serious eye irritation.Precautionary statementsKeep away from heat/sparks/open flames/hot surfaces No smolKeep container tightly closed.Ground/bond container and receiving equipment.Use explosion-proof electrical/ventilating/lighting/equipment.Use only non-sparking tools.	

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Wear protective gloves / eye protection / 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.
If skin irritation occurs: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse.
In case of fire: Use for extinction: Water spray.
In case of fire: Use for extinction: Alcohol resistant foam.
In case of fire: Use for extinction: Carbon dioxide.
Store in a well-ventilated place. Keep cool.
Dispose of contents/container in accordance with local/regional/national/international regulations.
· Classification system:
· NFPA ratings (scale 0 - 4)
$\begin{array}{c} & Health = 2 \\ Fire = 2 \\ Reactivity = 0 \end{array}$
· HMIS-ratings (scale 0 - 4)
HEALTH2FIRE2Fire2REACTIVITY0Reactivity0
· Other hazards
· Results of PBT and vPvB assessment
· PBT: Not applicable.
• vPvB : Not applicable.
3 Composition/information on ingredients
Chaming I abayantarization, Substances

- Chemical characterization: Substances
- · CAS No. Description
- 1569-01-3 Propylene Glycol n-Propyl Ether
- · Identification number(s)
- **EC number:** 216-372-4

4 First-aid measures

- · Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- After skin contact: Immediately rinse with water.
- After eye contact:
- Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- Information for doctor:
- Most important symptoms and effects, both acute and delayed No further relevant information available.
- *Indication of any immediate medical attention and special treatment needed No further relevant information available.*

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5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents: CO2. Do not use water.
- · For safety reasons unsuitable extinguishing agents: Water
- · Special hazards arising from the substance or mixture No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to item 13.
- Ensure adequate ventilation.
- Do not flush with water or aqueous cleansing agents
- · Reference to other sections
- See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

- See Section 13 for disposal information.
- Protective Action Criteria for Chemicals
- PAC-1: Substance is not listed.
- PAC-2: Substance is not listed.
- PAC-3: Substance is not listed.

7 Handling and storage

- · Handling:
- · Precautions for safe handling No special precautions are necessary if used correctly.
- Information about protection against explosions and fires: Keep ignition sources away - Do not smoke.
- Protect against electrostatic charges.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- · Requirements to be met by storerooms and receptacles: No special requirements.
- · Information about storage in one common storage facility: Not required.
- · Further information about storage conditions: Keep receptacle tightly sealed.
- · Specific end use(s) No further relevant information available.

8 Exposure controls/personal protection

· Additional information about design of technical systems: No further data; see item 7.

- · Control parameters
- Components with limit values that require monitoring at the workplace: Not required.
- · Additional information: The lists that were valid during the creation were used as basis.

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- · Exposure controls
- · Personal protective equipment:
- General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Avoid contact with the eyes. Avoid contact with the eyes and skin.
- · Breathing equipment: Not required.
- Protection of hands:



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation \cdot *Material of gloves*

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye protection:



Tightly sealed goggles

· Body protection: Protective work clothing

Information on basic physical and General Information	chemical properties	
Appearance:		
Form:	Fluid	
Color:	Colorless	
Odor:	Ether	
Odor threshold:	Not determined.	
pH-value:	Not determined.	
Change in condition		
Melting point/Melting range:	-70 °C (-94 °F)	
Boiling point/Boiling range:	149.8 °C (301.6 °F)	
Flash point:	46 °C (114.8 °F)	
Flammability (solid, gaseous):	Not applicable.	

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· Ignition temperature:	
Decomposition temperature:	Not determined.
· Auto igniting:	Not determined.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/vapor mixtures are possible.
· Explosion limits:	
Lower:	1.3 Vol %
Upper:	10.6 Vol %
· Vapor pressure at 20 °C (68 °F):	2.3 hPa (1.7 mm Hg)
· Density at 20 °C (68 °F):	0.8865 g/cm ³ (7.39784 lbs/gal)
· Relative density	Not determined.
· Vapor density	Not determined.
· Evaporation rate	Not determined.
· Solubility in / Miscibility with	
Water:	Not determined.
· Partition coefficient (n-octanol/wate	p r): Not determined.
· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
• Other information	No further relevant information available.

10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

11 Toxicological information

- · Information on toxicological effects
- · Acute toxicity:
- · Primary irritant effect:
- on the skin: No irritant effect.
- on the eye: Irritating effect.
- Sensitization: No sensitizing effects known.
- · Additional toxicological information:
- · Carcinogenic categories
- · IARC (International Agency for Research on Cancer) Substance is not listed.
- · NTP (National Toxicology Program) Substance is not listed.

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· OSHA-Ca (Occupational Safety & Health Administration) Substance is not listed.

12 Ecological information

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- Mobility in soil No further relevant information available.
- · Additional ecological information:
- · General notes:
- Water hazard class 1 (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. • Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB**: Not applicable.
- · Other adverse effects No further relevant information available.

13 Disposal considerations

- · Waste treatment methods
- *Recommendation: Must not be disposed of together with household garbage. Do not allow product to reach sewage system.*
- · Uncleaned packagings:
- Recommendation: Disposal must be made according to official regulations.

UN-Number	
DOT, IMDG, IATA	UN1993
UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Propylene Glycol n-Propyl Ether)
IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (Propylene Glycol n-Propyl Ether)
Transport hazard class(es) DOT	
RAMMARE LOOD	
Class	3 Flammable liquids
Label	3

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Trade	name:	PNP	

	(Contd. of page
IMDG, IATA	
Class Label	3 Flammable liquids 3
Label	3
Packing group	
DOT, IMDG, IATA	III
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Warning: Flammable liquids
Danger code (Kemler):	3
EMS Number:	<i>F-E</i> , <u><i>S-E</i></u>
Stowage Category	A
Transport in bulk according to Annex II of	f
MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	
Quantity limitations	On passenger aircraft/rail: 60 L
Quantity unitations	On cargo aircraft only: 220 L
Remarks:	Not regulated
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
Remarks:	Not regulated
IATA	
Remarks:	Not regulated
UN "Model Regulation":	UN 1993 FLAMMABLE LIQUIDS, N.O.S. (PROPYLENE GLYCO
0	N-PROPYL ETHER), 3, III

15 Regulatory information

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

· Sara

• Section 355 (extremely hazardous substances): Substance is not listed.

• Section 313 (Specific toxic chemical listings): Substance is not listed.

· TSCA (Toxic Substances Control Act):

Propylene Glycol n-Propyl Ether

· Proposition 65

· Chemicals known to cause cancer: Substance is not listed.

· Chemicals known to cause reproductive toxicity for females: Substance is not listed.

• Chemicals known to cause reproductive toxicity for males: Substance is not listed.

· Chemicals known to cause developmental toxicity: Substance is not listed.

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· Carcinogenic categories · EPA (Environmental Protection Agency) Substance is not listed. • TLV (Threshold Limit Value established by ACGIH) Substance is not listed. · NIOSH-Ca (National Institute for Occupational Safety and Health) Substance is not listed. • GHS label elements The substance is classified and labeled according to the Globally Harmonized System (GHS). · Hazard pictograms GHS07 GHS02 · Signal word Warning · Hazard statements Flammable liquid and vapor. Causes serious eye irritation. · Precautionary statements 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. Wash thoroughly after handling. Wear protective gloves / eye protection / 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. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash it before reuse. In case of fire: Use for extinction: Water spray. In case of fire: Use for extinction: Alcohol resistant foam. In case of fire: Use for extinction: Carbon dioxide. Store in a well-ventilated place. Keep cool. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· Department issuing SDS: Environment protection department.

· Contact:

· Date of preparation / last revision

Revision 1.0, 12-16-2014: revised DOT from UN3271, Ethers, n.o.s. (1-propoxypropan-2ol) 3, PG III to flammable liquid n.o.s. (1-propoxypropan-2ol), 3, PG III. STN

Revision 2.0, 02-09-2015: revised to add additional Precautionary statements and revised one Hazard Statement. STN

Revision 2.1, 02-10-2015: made further modifications to remove a hazard phrase and removed additional precautonary statements. added additional fire statemenets. STN

Revision 1.1, 02-06-2015: Revised DOT to "flammable liquid n.o.s. (Propylene Glycol n-Propyl Ether), 3, PG III. STN

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Revision 2.2, 05-07-2015: corrected emergency and information contacts. STN
01-18-2018: review SDS for accuracy. STN
Creation date for SDS 06-11-2014. STN
01/18/2018 / -
· Abbreviations and acronyms:
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International
Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
DOT: US Department of Transportation
IATA: International Air Transport Association
ACGIH: American Conference of Governmental Industrial Hygienists
EINECS: European Inventory of Existing Commercial Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
NFPA: National Fire Protection Association (USA)
HMIS: Hazardous Materials Identification System (USA)
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
NIOSH: National Institute for Occupational Safety
OSHA: Occupational Safety & Health
TLV: Threshold Limit Value
PEL: Permissible Exposure Limit
REL: Recommended Exposure Limit
Flam. Lig. 3: Flammable liquids – Category 3
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A
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