

Innovalt T

Section 1 - Product and Company Identification

Material Name	▪ Innovalt T
Product Description	▪ Clear viscous liquid, slight odor.
Synonyms	▪ Amphoteric Surfactant Blend
Manufacturer	▪ Innophos PO Box 8000 259 Prospect Plains Road Cranbury, NJ 08512-8000 United States
Telephone	
Technical	▪ 609-495-2495
<u>Emergency</u>	▪ 800-424-9300 - Chemtrec
<u>Emergency</u>	▪ 615-386-7816 - Innophos Emergency Communication Team (ECT)
<u>Emergency</u>	▪ 703-527-3887 - Chemtrec - International Collect Calls
Preparation Date	▪ 12/21/2005
Last Revision Date	▪ 09/16/2010

Section 2 - Hazards Identification**Emergency Overview****WARNING**

Causes mild skin irritation. Causes serious eye irritation.

Prevention	Wash thoroughly after handling. Wear protective gloves and eye/face protection -Safety goggles.
Response	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: rinse cautiously with water for several minutes.
Storage/Disposal	Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.



Flash Point	▪ > 93 C(> 199.4 F)
OSHA	▪ Combustible Liquid, Flammable/Combustible - Class IIIA, Irritant
WHMIS	▪ Class B - Flammable and Combustible Materials - Division 3, Class D - Poisonous and Infectious Materials - Division 2 - Subdivision B



EU

- Irritant - Xi
R36



GHS

- Skin Corrosion/Irritation - Category 3, Serious Eye Damage, Eye Irritation - Category 2A
- Inhalation, Ingestion
- Skin

Route Of Entry
Medical Conditions
Aggravated by Exposure

NFPA:



Potential Health Effects

Inhalation

Acute (Immediate)

Chronic (Delayed)

- Inhalation not likely. Mists may cause upper respiratory tract irritation.
- No data available.

Skin

Acute (Immediate)

Chronic (Delayed)

- Low acute dermal toxicity. May cause mild irritation.
- No data available.

Eye

Acute (Immediate)

Chronic (Delayed)

- Causes serious eye irritation. May cause tearing, redness, irritation.
- No data available.

Ingestion

Acute (Immediate)

Chronic (Delayed)

- Under normal conditions of use, no health effects are expected.
- No data available.

Carcinogenic Effects

- This product does not contain any ingredient designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

See Section 12 for Ecological Information.

Section 3 - Composition/Information on Ingredients

Hazardous Components

Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Glycerol	56-81-5	2.3%	200-289-5	Ingestion/Oral-Rat LD50: =12600 mg/kg	NDA	NDA
Surfactant Blend		na	NDA	NDA	NDA	NDA

Non-Hazardous Components

Chemical Name	CAS	%(weight)	UN;EINECS	LD50/LC50	EU Classification & R Phrases	Other
Water	7732-18-5	na	231-791-2	Ingestion/Oral-Rat LD50: >90 mL/kg	NDA	NDA

Under United States Regulations (29 CFR 1900.1200 - Hazard Communication Standard), this product is considered hazardous. In Canada, the product mentioned above is considered hazardous under the Workplace Hazardous Materials Information System (WHMIS). This product is considered dangerous according to the European Directive 67/548/EEC. According to the Globally Harmonized Standard for Classification and Labeling (GHS) this product is considered hazardous.

See Section 11 for Toxicological Information.

Section 4 - First Aid Measures

- Inhalation**
 - Skin**
 - Eye**
 - Ingestion**
 - Notes to Physician**
 - Other Information**
- Move victim to fresh air. If signs/symptoms continue, get medical attention.
 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash before reuse. If skin irritation occurs: Get medical advice/attention.
 - In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
 - Do NOT induce vomiting. If swallowed give 2-3 glasses of water if victim is conscious and alert. Do not give anything by mouth to an unconscious person. Seek immediate medical attention. Do not leave victim unattended. To prevent aspiration of swallowed product, lay victim on side with head lower than waist. Vomiting may occur spontaneously. If vomiting occurs and the victim is conscious, give water to further dilute the chemical.
 - All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
 - Call 911 or emergency medical service. Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

See Section 2 for Potential Health Effects.

Section 5 - Fire Fighting Measures

- Extinguishing Media**
 - Unsuitable Extinguishing Media**
 - Firefighting Procedures**
 - Unusual Fire and Explosion Hazards**
 - Hazardous Combustion Products**
 - Protection of Firefighters**
 - Flash Point**
- SMALL FIRES: Dry chemical or CO₂.
Large Fire: Alcohol foam, universal foam, water spray.
 - Not recommended: water jet (frothing possible).
 - Keep unauthorized personnel away.
 - Product will burn under fire conditions. Closed containers may explode (due to the build-up of pressure) when exposed to extreme heat.
 - Oxides of carbon.
Oxides of nitrogen.
 - Structural firefighters' protective clothing will only provide limited protection. Wear positive pressure self-contained breathing apparatus (SCBA).
 - > 93 C(> 199.4 F) CC (Closed Cup)

Section 6 - Accidental Release Measures



- Personal Precautions**
 - Emergency Procedures**
 - Environmental Precautions**
 - Containment/Clean-up Measures**
 - Prohibited Materials**
- Do not touch or walk through spilled material.
 - Keep unauthorized personnel away.
 - Do not flush to drain. Spills may be reportable to the National Response Center (800-424-8802) and to state and/or local agencies.
 - Absorb with earth, sand or other non-combustible material. Sweep or vacuum up and place in an appropriate closed container. Clean up residual material by washing area with water. Collect washings for disposal. Decontaminate tools and equipment following cleanup. LARGE SPILLS: Dike far ahead of spill for later disposal.
 - No data available

Section 7 - Handling and Storage

- Handling**
 - Storage**
 - Special Packaging Materials**
 - Incompatible Materials or Ignition Sources**
 - Other Information**
- Avoid breathing vapors and mists. Avoid direct or prolonged contact with skin and eyes. In cold weather, this product may stratify and freeze. This does not damage the product. If freezing occurs, thaw and remix before using. Frozen material may be thawed in a warm room. Avoid localized overheating. Vent drums while heating. Mix thoroughly to assure homogeneity.
 - Store in a tightly closed container. Store in an area that is cool, dry, well ventilated, away from combustible material and ignition sources. Expected shelf life if stored at recommended temperatures: 2 years.
 - No data available
 - No data available
 - 4 to 49 C (39 to 120F) Min/Max Storage Temperatures.

Section 8 - Exposure Controls/Personal Protection

Personal Protective Equipment

- Pictograms**
 - Respiratory**
 - Eye/Face**
 - Hands**
 - General Industrial Hygiene Considerations**
 - Engineering Measures/Controls**
-  
 - In case of insufficient ventilation, wear suitable respiratory equipment.
 - Wear protective eyewear (goggles, face shield, or safety glasses).
 - Wear appropriate gloves.
 - Do not get in eyes or on skin or clothing. Handle in accordance with good industrial hygiene and safety practice.
 - Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Exposure Limits/Guidelines						
	Result	ACGIH	Canada Ontario	Canada Quebec	Germany DFG	OSHA
Glycerol (56-81-5)	TWAs	10 mg/m3 TWA (mist)	10 mg/m3 TWAEV	10 mg/m3 TWAEV (mist)	Not established	15 mg/m3 TWA (mist, total particulate); 5 mg/m3 TWA (mist, respirable fraction)
	Ceilings	Not established	Not established	Not established	100 mg/m3 Peak (inhalable fraction)	Not established
	MAKs	Not established	Not established	Not established	50 mg/m3 MAK (inhalable fraction)	Not established

Key to abbreviations

Test Type	Dosage	Units	Route	Species	Duration	Results	Test Class	Target Organs	Comments
Irritation			Eye	Rabbit	NDA	NDA	Severe irritation, reversible	NDA	Data for a similar product with the same active ingredient.
Irritation			Skin	Rabbit	NDA	NDA	Mild irritation	NDA	Data for a similar product with the same active ingredient.
Acute Toxicity	> 2000	mg/kg	Skin	Rabbit	NDA	LD50	NDA	NDA	NDA
Acute Toxicity	> 5000	mg/kg	Inhalation	Rat	NDA	LC50	NDA	NDA	NDA
Acute Toxicity	> 5000	mg/kg	Ingestion/Oral	Rat	NDA	LD50	NDA	NDA	NDA

Component Name	Concentration	CAS	Data
Water	na	7732-18-5	Acute Toxicity: orl-rat LD50:>90 mL/kg; orl-man TDLo:42.86 gm/kg
Glycerol	2.3%	56-81-5	Acute Toxicity: orl-rat LD50:12600 mg/kg; orl-hmn TDLo:1428 mg/kg; orl-rat TDLo:96 gm/kg/30D-l; Irritation: eye-rbt 500 mg/24H MLD; skn-rbt 500 mg/24H MLD; Mutagen: cyt-rat-ork 1 gm/kg; Reproductive: orl-rat TDLo:100 mg/kg (1D male)

Key to abbreviations

TD = Toxic Dose
LD = Lethal Dose
MLD = Mild

Section 12 - Ecological Information

- Ecological Fate** ▪ No data available
- Persistence/Degradability** ▪ No data available
- Bioaccumulation Potential** ▪ No data available
- Mobility in Soil** ▪ No data available
- Other Information** ▪ No data available.

Section 13 - Disposal Considerations

- Product** ▪ Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
- Other Information** ▪ Any containers or equipment used should be decontaminated immediately after use.

Section 14 - Transportation Information

The listed Transportation Classification does not address regulatory variations due to changes in package size, mode of shipment or other regulatory descriptors.

DOT - United States - Department of Transportation

Shipping Name: Not Regulated

TDG - Canada - Transport of Dangerous Goods

Shipping Name: Not Regulated

IMO/IMDG –International Maritime Transport

Shipping Name: Not Regulated

ADN - Europe Transport of Dangerous Goods by Road/Inland Waterway

Shipping Name: Not Regulated

IATA - International Air Transport Association

Shipping Name: Not Regulated

ADR - Europe Transport of Dangerous Goods by Road/Inland Waterway

Shipping Name: Not Regulated

RID - Europe Transport of Dangerous Goods by Railways

Shipping Name: Not Regulated

Section 15 - Regulatory Information**SARA Hazard Classifications** ▪ Acute**Risk & Safety Phrases** ▪ R36 Irritating to eyes.
S24/25 Avoid contact with skin and eyes.
S23 Do not breathe gas/fumes/vapour/spray.

State Right To Know				
Component	CAS	MA	NJ	PA
Water	7732-18-5	No	No	No
Glycerol	56-81-5	Yes	Yes	Yes
Surfactant Blend	NDA	No	No	No

Inventory						
Component	CAS	Canada DSL	Canada NDSL	China	EU EINECS	EU ELNICS
Water	7732-18-5	Yes	No	Yes	Yes	No
Glycerol	56-81-5	Yes	No	Yes	Yes	No
Surfactant Blend	NDA	No	No	No	No	No

Inventory (Con't.)				
Component	CAS	Japan ENCS	Korea KECL	TSCA
Water	7732-18-5	No	Yes	Yes
Glycerol	56-81-5	Yes	Yes	Yes
Surfactant Blend	NDA	No	No	No

Australia

Labor

Australia - Hazardous Substances - Substances Requiring Health Surveillance

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Australia - High Volume Industrial Chemicals List

- Glycerol 56-81-5 2.3%
- Water 7732-18-5 na Not Listed

Australia - List of Designated Hazardous Substances - Classification

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Environment

Australia - National Pollutant Inventory (NPI) Substance List

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Australia - Ozone Protection Act - Scheduled Substances

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Australia - Priority Existing Chemical Program

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Canada

Labor

Canada - WHMIS - Classifications of Substances

- Glycerol 56-81-5 2.3% Uncontrolled product according to WHMIS classification criteria
- Water 7732-18-5 na Uncontrolled product according to WHMIS classification criteria

Canada - WHMIS - Ingredient Disclosure List

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Environment

Canada - CEPA - Priority Substances List

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Europe

Other

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Classification

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Concentration Limits

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Labelling

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Notes - Substances and Preparations

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

EU - CLP (1272/2008) - Annex VI - Table 3.2 - Safety Phrases

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Mexico

Other

Mexico - Hazard Classifications

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Mexico - Regulated Substances

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

United States

Labor

U.S. - OSHA - Process Safety Management - Highly Hazardous Chemicals

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - OSHA - Specifically Regulated Chemicals

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

Environment

U.S. - CAA (Clean Air Act) - 1990 Hazardous Air Pollutants

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - CERCLA/SARA - Hazardous Substances and their Reportable Quantities

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - CERCLA/SARA - Radionuclides and Their Reportable Quantities

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances EPCRA RQs

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - CERCLA/SARA - Section 302 Extremely Hazardous Substances TPQs

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - CERCLA/SARA - Section 313 - PBT Chemical Listing

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Aqueous Ammonia

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Certain Glycol Ethers

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Chlorophenols

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Dioxins and Dioxin-like Compounds

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Ethylenebisdithiocarbamic Acid, Salts and Esters

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Lead and Lead Compounds

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Nicotine and Salts

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Nitrate Compounds

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Pesticides and Other PBTs

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Polychlorinated Alkanes

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Polycyclic Aromatic Compounds

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Strychnine and Salts

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - EPA - Designated Generic Categories - Warfarin and Salts

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Basis for Listing - Appendix VII

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Constituents for Detection Monitoring

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - D Series Wastes - Max Conc of Contaminants for the Tox Characteristic

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - F Series Wastes - Wastes from Nonspecific Sources

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Hazardous Constituents - Appendix VIII to 40 CFR 261

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - K Series Wastes - Wastes from Specified Sources

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - List for Hazardous Constituents

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - P Series Wastes - Acutely Toxic Wastes

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Part 268 Appendix III - Halogenated Organic Compounds (HOCs)

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Phase 4 LDR Rule - Universal Treatment Standards

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - TSD Facilities Ground Water Monitoring

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - U Series Wastes - Acutely Toxic Wastes & Other Hazardous Characteristics

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - RCRA (Resource Conservation & Recovery Act) - Waste Minimization Priority Chemicals

- Glycerol 56-81-5 2.3% Not Listed

- Water 7732-18-5 na Not Listed

United States - California

Environment

U.S. - California - Proposition 65 - Carcinogens List

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - California - Proposition 65 - Developmental Toxicity

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - California - Proposition 65 - Maximum Allowable Dose Levels (MADL)

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - California - Proposition 65 - No Significant Risk Levels (NSRL)

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Female

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - California - Proposition 65 - Reproductive Toxicity - Male

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

United States - Pennsylvania

Labor

U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

U.S. - Pennsylvania - RTK (Right to Know) - Special Hazardous Substances

- Glycerol 56-81-5 2.3% Not Listed
- Water 7732-18-5 na Not Listed

United States - Rhode Island

Labor

U.S. - Rhode Island - Hazardous Substance List

- Glycerol 56-81-5 2.3% Toxic; Flammable
- Water 7732-18-5 na Not Listed

Section 16 - Other Information

Preparation Date

▪ 12/21/2005

Last Revision Date

▪ 09/16/2010

Disclaimer/Statement of Liability

▪ The information herein is given in good faith but no warranty, expressed or implied, is made.

Key to abbreviations

NDA = No Data Available