

# Material Safety Data Sheet



**SPECIALTY PRODUCTS**

**LO-1477**

**IT11 BLUE-REFLEX**

**U**

Colorcon requests that the users of this product study this Material Safety Data Sheet (MSDS) and become aware of product hazards and safety information. To promote safe use of this product, a user should notify its employees, contractors and agents of the information in this MSDS and any product hazards and safety information.

## 1. Product and company identification

### Identification of the substance or mixture

**Product name** : SPECIALTY PRODUCTS  
**Product code** : LO-1477  
**Company** : Colorcon, No-Tox Products Division  
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**Emergency telephone number** : US - 800-424-9300 International - +001-703-527-3887

## 2. Hazards identification

**Physical state** : Liquid.  
**Appearance** : SP IT11 Blue Reflex U  
**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).  
**Emergency overview** : No specific hazard.  
CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.  
Irritating to eyes. Moderately irritating to the skin. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.  
**Routes of entry** : Absorbed through skin. Eye contact. Inhalation. Ingestion.  
**Potential acute health effects**  
**Eyes** : Irritating to eyes.  
**Skin** : Moderately irritating to the skin.  
**Inhalation** : Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.  
**Ingestion** : No known significant effects or critical hazards.

See Section 11 for more detailed information on health effects and symptoms.

## 3. Composition/information on ingredients

Name	CAS number	%	Exposure limits
PROPYLENE GLYCOL	57-55-6	30 - 50	<b>AIHA WEEL (United States, 5/2010).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s).
GLYCERIN - KOSHER FOR PASSOVER	56-81-5	5 - 10	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Inhalable fraction <b>OSHA PEL 1989 (United States, 3/1989).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Total dust <b>OSHA PEL (United States, 6/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s). Form: Respirable fraction TWA: 15 mg/m <sup>3</sup> 8 hour(s). Form: Total dust
POLYETHYLENE GLYCOL	25322-68-3	1 - 5	<b>AIHA WEEL (United States, 5/2010).</b> TWA: 10 mg/m <sup>3</sup> 8 hour(s). Form: Aerosol
TRIETHANOLAMINE	102-71-6	0 - 1	<b>ACGIH TLV (United States, 2/2010).</b> TWA: 5 mg/m <sup>3</sup> 8 hour(s).

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

## 4 . First aid measures

- Eye contact** : Affected individual should remove contact lens, if present. Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention if irritation occurs.
- Skin contact** : In case of contact, immediately flush skin with plenty of water while removing contaminated clothing and shoes. Get medical attention if irritation develops.
- Inhalation** : Move exposed person to fresh air. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if symptoms occur.
- Ingestion** : Wash out mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.

## 5 . Fire-fighting measures

- Flammability of the product** : Non-flammable.
- Products of combustion** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide  
nitrogen oxides  
metal oxide/oxides
- Fire hazards in the presence of various substances** : Flammable in the presence of the following materials or conditions: heat.  
Non-flammable in the presence of the following materials or conditions: open flames, sparks and static discharge, shocks and mechanical impacts, oxidizing materials, reducing materials, combustible materials, organic materials, metals, acids, alkalis and moisture.
- Fire-fighting media and instructions** : Use an extinguishing agent suitable for the surrounding fire.
- Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## 6 . Accidental release measures

- Personal precautions** : Keep unnecessary personnel away. Do not touch or walk through spilled material. Avoid breathing vapor or mist. Provide adequate ventilation. Use suitable protective equipment (section 8).
- Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
- Methods for cleaning up** : Small spill : Absorb with an inert material and place in an appropriate waste disposal container.  
Large spill : Use appropriate containment to avoid environmental contamination. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Contaminated absorbent material may pose the same hazard as the spilled product. Use a non-sparking or explosion proof means to transfer material to a sealed, appropriate container for disposal.

## 7 . Handling and storage

- Handling** : Do not ingest. Do not breathe vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling. Keep container closed. Use only with adequate ventilation. Do not reuse container.
- Storage** : Keep container tightly closed. Store in a dry, cool and well-ventilated area. Store away from incompatible materials (see Section 10). Store in accordance with local regulations.

## 8 . Exposure controls/personal protection

- Engineering measures** : No special ventilation requirements. Good general ventilation should be sufficient to control worker exposure to airborne contaminants. If this product contains ingredients with exposure limits, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure below any recommended or statutory limits.

## 8 . Exposure controls/personal protection

**Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

### Personal protection

- Eyes** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory** : Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
- Hands** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

\* Occupational Exposure Limit(s), if available, are listed in section 3

## 9 . Physical and chemical properties

- Physical state** : Liquid.
- Appearance** : SP IT11 Blue Reflex U
- Flash point** : Closed cup: 101°C (213.8°F)

Values provided should not be construed as specifications. See product specification for additional information.

## 10 . Stability and reactivity

- Stability** : The product is stable.
- Hazardous polymerization** : Will not occur.
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## 11 . Toxicological information

Ingredient name	CAS #	Result	Species	Dose	Exposure		
PROPYLENE GLYCOL	57-55-6	LD50 Dermal	Rabbit	20800 mg/kg	-		
		LD50 Intramuscular	Rat	14 g/kg	-		
		LD50 Intramuscular	Rat	20000 mg/kg	-		
		LD50 Intraperitoneal	Rat	6660 mg/kg	-		
		LD50 Intravenous	Rat	6800 mg/kg	-		
		LD50 Intravenous	Rat	6423 mg/kg	-		
		LD50 Oral	Rat	20 g/kg	-		
		LD50 Subcutaneous	Rat	28000 mg/kg	-		
		LD50 Subcutaneous	Rat	22500 mg/kg	-		
		TDL <sub>o</sub> Intraperitoneal	Rat	19500 mg/kg	-		
		LD50 Intraperitoneal	Rat	4420 mg/kg	-		
		GLYCERIN - KOSHER FOR PASSOVER	56-81-5	LD50 Intravenous	Rat	5566 mg/kg	-
				LD50 Oral	Rat	12600 mg/kg	-
LD50 Subcutaneous	Rat			100 mg/kg	-		
LDLo Intramuscular	Rat			10 mL/kg	-		
LDLo Intramuscular	Rat			10 mg/kg	-		
TDL <sub>o</sub> Intramuscular	Rat			8 mL/kg	-		
TDL <sub>o</sub> Intramuscular	Rat			4 mL/kg	-		
TDL <sub>o</sub> Intramuscular	Rat			5000 mg/kg	-		
TDL <sub>o</sub> Intramuscular	Rat			4000 mg/kg	-		
LD50 Intraperitoneal	Rat			1510 mg/kg	-		
LD50 Oral	Rat			7.39 g/kg	-		
LD50 Oral	Rat	>4920 uL/kg	-				

### Chronic effects

Ingredient name	ACGIH	IARC	EPA	NIOSH	NTP	OSHA
TRIEETHANOLAMINE	-	3	-	-	-	-

### Other toxic effects on humans

## 11 . Toxicological information

Irritating to eyes. Moderately irritating to the skin. Avoid breathing vapor or mist. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

### Specific effects on humans

**Mutagenicity / Teratogenicity / Reproductive toxicity** : No known significant effects or critical hazards.

## 12 . Ecological information

**Environmental effects** : No known significant effects or critical hazards.

### Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
PROPYLENE GLYCOL	-	Acute EC50 >1000 mg/L Fresh water	Daphnia - Water flea - Daphnia magna - <24 hours	48 hours
	-	Acute EC50 >10000000 ug/L Fresh water	Daphnia - Water flea - Daphnia magna - 6 to 24 hours	48 hours
	-	Acute LC50 34060 to 39339 mg/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours
	-	Acute LC50 15052 to 17561 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 5122 to 6011 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 4919 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 >1000 mg/L Marine water	Crustaceans - Amphipod - Chaetogammarus marinus - Young - 5 mm	48 hours
	-	Acute LC50 44 to 47 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 0.8 g	96 hours
	-	Acute LC50 55770000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours
	-	Acute LC50 18340000 ug/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 1020000 ug/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - <24 hours	48 hours
	-	Acute LC50 710000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - <=7 days	96 hours
	GLYCERIN - KOSHER FOR PASSOVER	-	Acute LC50 54 to 57 ml/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 0.9 g
POLYETHYLENE GLYCOL / MACROGOL	-	Acute LC50 >20000000 ug/L Fresh water	Fish - Rainbow trout,donaldson trout - Oncorhynchus mykiss - 25 to 50 g	96 hours
	-	Acute LC50 >1000000 ug/L Fresh water	Fish - Atlantic salmon - Salmo salar - Parr - 8.2 to 11.7 cm - 5.1 to 14.1 g	96 hours
TRIETHANOLAMINE	-	Acute EC50 609.98 to 658.3 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute EC50 609.98 mg/L Fresh water	Crustaceans - Water flea - Ceriodaphnia dubia - Neonate - <24 hours	48 hours
	-	Acute LC50 11800000 to 13000000 ug/L Fresh water	Fish - Fathead minnow - Pimephales promelas - 30 days - 18.1 mm - 0.083 g	96 hours
	-	Acute LC50 >100000 ug/L Marine water	Crustaceans - Common shrimp, sand shrimp - Crangon crangon - Adult	48 hours
	-	Chronic NOEC >16	Daphnia - Water flea -	21 days

## 12 . Ecological information

mg/L Fresh water Daphnia magna  
Chronic NOEC 16000 Daphnia - Water flea - 21 days  
ug/L Fresh water Daphnia magna - <=24  
hours

## 13 . Disposal considerations

**Waste disposal** : The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## 14 . Transport information

**DOT Classification** : Refer to the bill of lading for proper shipping information.

## 15 . Regulatory information

### United States

**OSHA/HCS status** : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

**U.S. Federal regulations** : **TSCA 8(a) PAIR:** 5,12-dihydroquino[2,3-b]acridine-7,14-dione  
**TSCA 8(a) IUR Exempt/Partial exemption:** Not determined  
**United States inventory (TSCA 8b):** All components are listed or exempted.  
**Commerce control list precursor:** 2,2',2"-nitrilotriethanol  
**SARA 302/304/311/312 extremely hazardous substances:** No products were found.  
**SARA 302/304 emergency planning and notification:** No products were found.  
**SARA 302/304/311/312 hazardous chemicals:** propane-1,2-diol; glycerol; 2,2',2"-nitrilotriethanol  
**SARA 311/312 MSDS distribution - chemical inventory - hazard identification:**  
propane-1,2-diol: Immediate (acute) health hazard, Delayed (chronic) health hazard;  
glycerol: Immediate (acute) health hazard, Delayed (chronic) health hazard; 2,2',2"-nitrilotriethanol: Immediate (acute) health hazard, Delayed (chronic) health hazard

**Clean Water Act (CWA) 307:** 29H,31H-phthalocyaninato(2-)-N29,N30,N31,N32 copper

**Clean Air Act (CAA) 112 accidental release prevention:** No products were found.

### State regulations

: **Connecticut Carcinogen Reporting:** None of the components are listed.  
**Connecticut Hazardous Material Survey:** None of the components are listed.  
**Florida substances:** None of the components are listed.  
**Illinois Chemical Safety Act:** None of the components are listed.  
**Illinois Toxic Substances Disclosure to Employee Act:** None of the components are listed.  
**Louisiana Reporting:** None of the components are listed.  
**Louisiana Spill:** None of the components are listed.  
**Massachusetts Spill:** None of the components are listed.  
**Massachusetts Substances:** The following components are listed: GLYCERINE MIST; TRIETHANOLAMINE  
**Michigan Critical Material:** None of the components are listed.  
**Minnesota Hazardous Substances:** None of the components are listed.  
**New Jersey Hazardous Substances:** The following components are listed: PROPYLENE GLYCOL; 1,2-PROPANEDIOL; GLYCERIN; 1,2,3-PROPANETRIOL; COPPER compounds; TRIETHANOLAMINE; ETHANOL, 2,2',2"-NITRILOTRIS-  
**New Jersey Spill:** None of the components are listed.  
**New Jersey Toxic Catastrophe Prevention Act:** None of the components are listed.

## 15 . Regulatory information

**New York Acutely Hazardous Substances:** None of the components are listed.  
**New York Toxic Chemical Release Reporting:** None of the components are listed.  
**Pennsylvania RTK Hazardous Substances:** The following components are listed: 1,2-PROPANEDIOL; 1,2,3-PROPANETRIOL; COPPER COMPOUNDS; ETHANOL, 2,2',2"-NITRILOTRIS-  
**Rhode Island Hazardous Substances:** None of the components are listed.

### Canada

**WHMIS (Canada)** : Not controlled under WHMIS (Canada).  
**Canadian lists** : **CEPA Toxic substances:** None of the components are listed.  
**Canadian ARET:** None of the components are listed.  
**Canadian NPRI:** The following components are listed: Copper  
**Alberta Designated Substances:** None of the components are listed.  
**Ontario Designated Substances:** None of the components are listed.  
**Quebec Designated Substances:** None of the components are listed.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. See Section 11 for more detailed information on health effects and symptoms.

### Europe

**Risk phrases** : This product is not classified according to EU legislation.

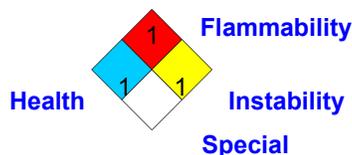
## 16 . Other information

**Label requirements** : CAUSES EYE IRRITATION. MAY CAUSE SKIN IRRITATION.

**Hazardous Material Information System (U.S.A.)** :

Health	1
Flammability	1
Physical hazards	1
Personal protection	B

**National Fire Protection Association (U.S.A.)** :



### History

**Date of issue** : 2 May 2012

**Date of previous issue** : No previous validation

Indicates information that has changed from previously issued version.

### Notice to reader

*To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.*

*Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.*

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