

# 502884 PENTYLENE GLYCOL

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## **1. IDENTIFICATION**

Product Description:PENTYLENE GLYCOLGAS #5343-92-0FEMA NumberN/AFEMA NumberN/AOther means of identification Vigon Item #502884Recommended useCosmetic material for FDA regulated product use.Recommended useCosmetic material for FDA regulated product use.Recommended useFor Nanufacturing Use			
FEMA Number     N/A       FEMA Number     N/A       Other means of identification     502884       Recommended use     Cosmetic material for FDA regulated product use.       Recommended restrictions     For Manufacturing Use Only       Company     24 Hour Emergency Response Information       Vigon International, Inc.     INFOTRAC (ACCT# 78928);       127 Airport Road     1-800-535-5053 WITHIN THE U.S.A.       E. Stroudsburg, PA 18301     1-352-323-3500 OUTSIDE THE U.S.A.       For information call: 570-476-6300     Vigon International, Inc.       Manufacturer/Importer/Supplier/Distributor information     Nigon International, Inc.       Manufacturer     Vigon International, Inc.       Company name     Vigon International, Inc.       Address     127 Airport Road       E. Stroudsburg, PA 18301     Stroudsburg, PA 18301       For information call: 570-476-6300     Stroudsburg, PA 18301       Manufacturer     Vigon International, Inc.       Address     127 Airport Road       E. Stroudsburg, PA 18301     Stroudsburg, PA 18301       For information call: 570-476-6300     Wigon International, Inc.       Address     127 Airport Road       E. Stroudsburg, PA 18301     Stroudsburg, PA 18301       United States     570-476-6300       Website     www.vigon.com       E-mail <th>Product Description:</th> <th>PENTYLENE GLYCOL</th> <th></th>	Product Description:	PENTYLENE GLYCOL	
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1-352-323-3500 OUTSIDE THE U.S.A.		1-352-323-3500	OUTSIDE THE U.S.A.

## 2. HAZARD(S) IDENTIFICATION

Physical hazards	Not classified.	
Health hazards	Serious eye damage/eye irritation	Category 1
Environmental hazards	Not classified.	
Label elements		
Signal word	Danger	
Hazard statement	Causes serious eye damage.	
Proceutionany statement		

Precautionary statement Prevention

Wear eye protection/face protection.



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Response	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 CENTER/doctor.	
Storage	Store away from incompatible materials.	
Disposal	Dispose of waste and residues in accordance with local authority requirements.	
Hazard(s) not otherwise classified (HNOC)	None known.	
Supplemental information	100% of the substance consists of component(s) of unknown acute oral toxicity. 100% of the substance consists of component(s) of unknown acute dermal toxicity. 100% of the substance consists of component(s) of unknown acute inhalation toxicity. 100% of the substance consists of component(s) of unknown acute inhalation toxicity. 100% of the substance consists of component(s) of unknown acute inhalation toxicity.	

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

### Substances

Chemical name	Common name and synonyms	CAS number	%
PENTYLENE GLYCOL	pentylene glycol 1,2-PENTANDIOL pentane-1,2-diol PENTYLENE GLYCOL, 1,2- PENTANEDIOL PENTANE-L,2-DIOL	5343-92-0	100

## 4. FIRST-AID MEASURES

Inhalation	If breathing is difficult, remove to fresh air and keep at rest in a position comfortable for breathing. For breathing difficulties, oxygen may be necessary. Call a physician if symptoms develop or persist.
Skin contact	Take off immediately all contaminated clothing. Get medical attention if irritation develops and persists. Wash skin thoroughly with soap and water for several minutes.
Eye contact	Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists. Promptly wash eyes with plenty of water while lifting the eye lids.
Ingestion	Call a physician or poison control center immediately. If swallowed, rinse mouth with water (only if the person is conscious). Do not induce vomiting. If vomiting occurs, the head should be kept low so that stomach vomit doesn't enter the lungs.
Most important symptoms/effects, acute and delayed	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.
Indication of immediate medical attention and special treatment needed	Not available.
General information	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance.

## **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media	Water spray, fog, CO2, dry chemical, or alcohol resistant foam.
Unsuitable extinguishing media	Do not use a solid water stream as it may scatter and spread fire.



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Specific hazards arising from the chemical	Fire may produce irritating, corrosive and/or toxic gases.
Special protective equipment and precautions for firefighters	Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Structural firefighters protective clothing will only provide limited protection. Wear self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode when fighting fires.
Fire fighting equipment/instructions	In case of fire and/or explosion do not breathe fumes. Use standard firefighting procedures and consider the hazards of other involved materials. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage. Ventilate closed spaces before entering them. Keep run-off water out of sewers and water sources. Dike for water control.
Specific methods	Use water spray to cool unopened containers.
General fire hazards	Static charges generated by emptying package in or near flammable vapor may cause flash fire.
6. ACCIDENTAL RELEASE	MEASURES
Personal precautions, protective equipment and emergency procedures	Eliminate all sources of ignition. Avoid contact with skin or inhalation of spillage, dust or vapor. Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ventilate closed spaces before entering them.
Methods and materials for containment and cleaning up	Collect and dispose of spillage as indicated in section 13 of the SDS.
	Absorb with inert absorbent such as dry clay, sand or diatomaceous earth, commercial sorbents, or recover using pumps.
	This product is miscible in water. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible.
	Never return spills in original containers for re-use. This material and its container must be disposed of as hazardous waste. Eliminate all ignition sources (no smoking, flares, sparks or flames in immediate area). Prevent product from entering drains.
	Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth and place into containers.
	Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.
Environmental precautions	Retain and dispose of contaminated wash water. Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water.

## 7. HANDLING AND STORAGE

Precautions for safe handling	Do not handle or store near an open flame, heat or other sources of ignition. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Avoid breathing vapor. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Wash thoroughly after handling.
Conditions for safe storage, including any incompatibilities	Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well-ventilated area.



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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits	This substance has no PEL, TLV, or other recommended exposure limit.
Biological limit values	No biological exposure limits noted for the ingredient(s).
Appropriate engineering controls	Use explosion-proof ventilation equipment to stay below exposure limits. Adequate ventilation should be provided so that exposure limits are not exceeded.
Individual protection measures, su	ch as personal protective equipment
Eye/face protection	Chemical goggles are recommended.
Skin protection	
Hand protection	Chemical resistant gloves.
Other	Not available.
Respiratory protection	Respiratory protection not required.
Thermal hazards	Wear appropriate thermal protective clothing, when necessary.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Refer to Spec Sheet
Physical state	Liquid.
Form	Liquid.
Color	Refer to Spec Sheet
Odor	Characteristic.
Odor threshold	Not available.
рН	Not available.
Melting point/freezing point	Not available.
Initial boiling point and boiling range	388.4 - 390.2 °F (198 - 199 °C)
Flash point	> 200.0 °F (> 93.3 °C) Closed Cup
Evaporation rate	Not available.
Flammability (solid, gas)	Not applicable.
Upper/lower flammability or explos	ive limits
Flammability limit - lower (%)	Not available.
Flammability limit - upper (%)	Not available.
Explosive limit - lower (%)	Not available.
Explosive limit - upper (%)	Not available.
Vapor pressure	0.09 mm Hg at 25 °C
Vapor density	3.6
Relative density	Not available.



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Solubility(ies)	
Solubility (water)	Soluble
Partition coefficient (n-octanol/water)	Not available.
Auto-ignition temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Other information	
Explosive properties	Not explosive.
Flammability class	Combustible IIIB estimated
Molecular formula	C5H12O2
Molecular weight	104.15 g/mol
Oxidizing properties	Not oxidizing.
Specific gravity	0.97

### **10. STABILITY AND REACTIVITY**

Reactivity	The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability	Material is stable under normal conditions.
Possibility of hazardous reactions	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid temperatures exceeding the flash point. Contact with incompatible materials.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products if stored and handled as indicated.

### **11. TOXICOLOGICAL INFORMATION**

### Information on likely routes of exposure

Inhalation	Knowledge about health hazard is incomplete.		
Skin contact	Knowledge about health hazard is incomplete.		
Eye contact	Causes serious eye damage.		
Ingestion	Knowledge about health hazard is incomplete.		
Symptoms related to the physical, chemical and toxicological characteristics	Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result.		
Information on toxicological effects			
Acute toxicity	Not known.		
Skin corrosion/irritation	Due to partial or complete lack of data the classification is not possible. Humans: No skin irritation @ 10 %		
Serious eye damage/eye irritation	Causes serious eye damage. rabbit: Severe eye irritation		



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Respiratory or skin sensitization			
Respiratory sensitization	Due to partial or complete lack of data the classification is not possible.		
Skin sensitization	Due to partial or complete lack of data the classification is not possible. Humans: No sensitizing effect. @ 50 %		
Germ cell mutagenicity	Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Due to partial or complete lack of data the classification is not possible.		
Carcinogenicity	Due to partial or complete lack of data the classification is not possible.		
IARC Monographs. Overall Evaluation of Carcinogenicity			
Not listed.			
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)			
Not listed.			
US. National Toxicology Program (NTP) Report on Carcinogens			
Not listed.			
Reproductive toxicity	Due to partial or complete lack of data the classification is not possible.		
Specific target organ toxicity - single exposure	Due to partial or complete lack of data the classification is not possible.		
Specific target organ toxicity - repeated exposure	Due to partial or complete lack of data the classification is not possible.		
Aspiration hazard	Due to partial or complete lack of data the classification is not possible.		

### **12. ECOLOGICAL INFORMATION**

Ecotoxicity

The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Product		Species	Test Results	
PENTYLENE GLYCOL (CA	AS 5343-92-0)			
Other		Activated sludge of a predominantly domestic sewage	> 1 mg/l, hours	
	EC50	Pseudomonas putida	> 10000 mg/l, 17 hours	
Aquatic				
Algae	EC50	Green algae (Scenedesmus quadricauda)	> 500 mg/l, 72 hours DIN 38412 (part 8)	
Crustacea	EC50	Daphnia magna	> 500 mg/l, 48 hours	
Fish	LC50	Rainbow Trout	> 1000 mg/l, 96 hours	
		Zebra danio (Danio rerio)	> 1000 mg/l, 96 hours	
ersistence and degradability	No data is av	No data is available on the degradability of this substance.		
paccumulative potential	No data avai	No data available.		
obility in soil	No data avai	No data available.		
her adverse effects		No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.		



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### **13. DISPOSAL CONSIDERATIONS**

Disposal instructions	Do not discharge into drains, water courses or onto the ground. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.
Local disposal regulations	Dispose in accordance with all applicable regulations.
Hazardous waste code	Not established.
Waste from residues / unused products	Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

### **14. TRANSPORT INFORMATION**

### ADN

Not regulated as dangerous goods.

#### ADR

Not regulated as dangerous goods.

### RID

Not regulated as dangerous goods.

#### DOT

BULK

Not regulated as dangerous goods.

### DOT

NON-BULK

Not regulated as dangerous goods.

#### IATA

Not regulated as dangerous goods.

#### IMDG

Not regulated as dangerous goods.

### **15. REGULATORY INFORMATION**

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

#### **Toxic Substances Control Act (TSCA)**

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

### SARA 304 Emergency release notification

Not regulated.



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OSHA Specifically Regulated	d Substances (29 CFR 1910.1001-1053)			
Not listed.	3 Substances (29 CFR 1910.1001-1033)			
Superfund Amendments and Rea SARA 302 Extremely hazard				
Not listed.				
SARA 311/312 Hazardous chemical	Yes			
Classified hazard categories	Serious eye damage or eye irritation			
SARA 313 (TRI reporting) Not regulated.				
Other federal regulations				
Clean Air Act (CAA) Section	112 Hazardous Air Pollutants (HAPs) List			
Not regulated.				
Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)				
Not regulated.				
Safe Drinking Water Act (SDWA)	Not regulated.			
16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION				
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Health: 3 Flammability: 1 Physical hazard: 0



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#### Disclaimer

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#### **Revision information**

This document has undergone significant changes and should be reviewed in its entirety.