# 1. Identification:

Product identifierProduct NameGreenSeal 2.5 BOther means of identificationProduct Code 258793SynonymsGreenSeal 2.5 B-Component

Recommended use of the chemical and restrictions on useRecommended UseSpray foam insulationUses advised againstNo information available

Company Details: Green Shield Products Address: 40 Cypress Creek Parkway #338 Houston, Texas 77090

EEN SHIE

**Telephone:** 877-476-7453 **24-Hr. Emergency Phone Number:** CHEMTREC (800) 424-9300

# 2. Hazards Identification

#### **Classification**

#### **OSHA Regulatory Status**

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200) and Canadian

Workplace Hazardous Material Information System (WHMIS)

Acute toxicity - Oral	Category 4
Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Skin sensitization	Category 1
Reproductive toxicity	Category 1B
Specific target organ toxicity (repeated exposure)	Category 2

### Label elements

### **Emergency Overview**

Danger

#### **Hazard statements**

Harmful if swallowed Causes skin irritation Causes serious eye damage May cause an allergic skin reaction May damage fertility or the unborn child May cause damage to organs through prolonged or repeated exposure











Appearance: Viscous

Physical state: Liquid

Odor: Slight Anime

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood Wash face, hands and any exposed skin thoroughly after handling Wear protective gloves/protective clothing/eye protection/face protection Do not eat, drink or smoke when using this product Contaminated work clothing should not be allowed out of the workplace Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention 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 or doctor/physician IF ON SKIN: Wash with plenty of soap and water Take off contaminated clothing and wash before reuse If skin irritation or rash occurs: Get medical advice/attention IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up

#### **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

Not applicable

#### **Other Information**

Harmful to aquatic life with long lasting effects.

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#### Unknown acute toxicity

0% of the mixture consists of ingredient(s) of unknown toxicity

# 3. Composition/information on ingredients:

#### Substance

Not applicable

### <u>Mixture</u>

Chemical Name	CAS number	Weight Concentration %
Oxirane, 2-methyl-, polymer with oxirane, ether with 2,6-bis[[bis(2-hydroxyethyl)amino]methyl]-4-branch ed nonylphenol		10 - 30
Polyol blend (non-hazardous) *	Proprietary	10 - 30



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Chemical Name	CAS number	Weight Concentration %
2-Propanol, 1-chloro-, phosphate (3:1) *	13674-84-5	10 - 30
(E)-1-Chloro-3,3,3-trifluoroprop-1-ene *	102687-65-0	5 - 10
Diethylene glycol *	111-46-6	3 - 7
2-Butoxyethanol *	111-76-2	1 - 5
N,N-Dimethylcyclohexylamine *	98-94-2	1 - 5
Glycerin *	56-81-5	1 - 5
1H-Imidazole, 1,2-dimethyl- *	1739-84-0	0.1 - 1

\*The exact percentage (concentration) of composition has been withheld as a trade secret. If CAS number is "proprietary", thespecific chemical identity and percentage of composition has been withheld as a trade secret.

### 4. First Aid Measures:

#### **Description of first aid measures**

General advice	In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). If symptoms persist, call a physician.
Eye contact	Keep eye wide open while rinsing. Immediately flush with plenty of water. After initial flushing, remove any contact lenses and continue flushing for at least 15 minutes. If symptoms persist, call a physician.
Skin contact	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If symptoms persist, call a physician. Wash contaminated clothing before reuse.
Inhalation	Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If symptoms persist, call a physician.
Ingestion	Call a physician or poison control center immediately. Do not induce vomiting without medical advice. Rinse mouth. Never give anything by mouth to an unconscious person.
Self-protection of the fi	rst aider Use personal protective equipment as required.
Most important sympt	oms and effects, both acute and delayed
Symptoms	May cause redness and tearing of the eyes. Coughing and/ or wheezing. May cause skin irritation. May cause allergic skin reaction.

#### Indication of any immediate medical attention and special treatment needed

Note to physicians Treat symptomatically.





# GREEN SHIELD

# 5. Firefighting measures

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Dry chemical, CO2, sand, earth, water spray or regular foam.

Unsuitable extinguishing media Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical

Thermal decomposition can lead to release of irritating and toxic gases and vapors.

**Hazardous combustion products** Carbon oxides. Nitrogen oxides (NOx). Hydrocarbons. Hydrogen chloride. Hydrogen fluoride. Hydrogen cyanide.

#### Explosion data Sensitivity to Mechanical Impact None. Sensitivity to Static Discharge None.

#### Protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

#### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Personal precautionsRemove all sources of ignition. Evacuate personnel to safe areas. Ensure adequate<br/>ventilation, especially in confined areas. Use personal protective equipment as required.<br/>Keep people away from and upwind of spill/leak.

#### **Environmental precautions**

**Environmental precautions** See Section 12 for additional ecological information.

#### Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

Methods for cleaning up Use personal protective equipment as required. Dam up. Cover liquid spill with sand, earth or other non-combustible absorbent material. Take up mechanically, placing in appropriate containers for disposal. Clean contaminated surface thoroughly.

# 7. Handling and Storage

Precautions for safe handling

Advice on safe handling Ensure adequate ventilation, especially in confined areas. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Handle in accordance with good industrial hygiene and safety practice. Extremely slippery when spilled.







#### Conditions for safe storage, including any incompatibilities

Storage ConditionsKeep container tightly closed in a dry and well-ventilated place. Keep in properly labeled<br/>containers. Keep away from heat.

Incompatible materials Strong oxidizing agents. Strong acids. Strong bases.

8. Exposure Controls and Personal Protection:

#### Control parameters

**Exposure Guidelines** The American Industrial Hygiene Association's (AIHA) Documentation of the Workplace Environmental Exposure Limits (WEELs) (latest edition). (E)-1-Chloro-3,3,3-trifluoroprop-1-ene - 800 ppm.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH REL/IDLH
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m3 S*	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m3
Glycerin 56-81-5		TWA: 15 mg/m3 mist, total particulate TWA: 5 mg/m3 mist, respi- rable fraction	

NIOSH REL/IDLH Recommended Exposure Limit/Immediately Dangerous to Life or Health

#### Appropriate engineering controls

Engineering Controls	Showers
	Eyewash stations
	Ventilation systems.

#### Individual protection measures, such as personal protective equipment

**Eye/face protection** Wear safety glasses with side shields (or goggles).

Skin and body protection Wear protective gloves and protective clothing.

**Respiratory protection** If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.







# 9. Physical and Chemical Properties:

Information on basic physical and chemical properties

**Physical state Appearance** Color

liquid viscous amber

Values No information available

>1

1.18

slightly soluble

> 100 mm2/s

Not applicable

Not an explosive

19 - 342 °C

> 200 °C / 392 °F

No information available

**Property** pН Melting point / freezing point No information available **Boiling point / boiling range** Flash point **Evaporation rate** Flammability (solid, gas) Flammability Limit in Air **Upper flammability limit:** Lower flammability limit: Vapor pressure Vapor density **Relative density** Water solubility Solubility in other solvents **Partition coefficient** Autoignition temperature **Decomposition temperature Kinematic viscosity Dynamic viscosity Explosive properties Oxidizing properties** 

#### **Other Information**

Softening point Molecular weight **VOC Content (%)** Density **Bulk density** 

No information available No information available No information available No information available No information available

# 10. Stability and Reactivity:

Reactivity No data available

**Chemical stability** Stable under recommended storage conditions. **Possibility of Hazardous Reactions** None under normal processing. **Conditions to avoid** Elevated Temperature. Incompatible materials.



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877-476-7453 greenshieldproducts.com Odor **Odor threshold**  Slight Amine No information available

Remarks · Method Not applicable

Tag Closed Cup





#### **Incompatible materials**

Strong oxidizing agents. Strong acids. Strong bases.

#### **Hazardous Decomposition Products**

Thermal decomposition can lead to release of irritating and toxic gases and vapors. Carbon oxides. Nitrogen oxides (NOx). Hydrogen cyanide. Hydrogen chloride. Hydrogen fluoride.

# **11.** Toxicological Information:

#### Information on likely routes of exposure

#### **Product Information**

Inhalation	Based on available data, the classification criteria are not met.
Eye contact	Corrosive to the eyes and may cause severe damage including blindness.
Skin contact	Irritating to skin. Repeated or prolonged skin contact may cause allergic reactions with susceptible persons.
Ingestion	Harmful if swallowed.

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	= 1500 mg/kg ( Rat )	> 5000 mg/kg ( Rabbit )	> 5.05 mg/L ( Rat ) 4 h
Diethylene glycol 111-46-6	= 12565 mg/kg ( Rat )	= 11890 mg/kg ( Rabbit )	> 4600 mg/m3 ( Rat ) 4 h
2-Butoxyethanol 111-76-2	= 470 mg/kg ( Rat )	= 99 mg/kg ( Rabbit )	= 450 ppm ( Rat ) 4 h = 486 ppm ( Rat ) 4 h
N,N-Dimethylcyclohexyl- amine 98-94-2	= 272 mg/kg ( Rat )	-	= 1889 mg/m3 ( Rat ) 2 h
Glycerin 56-81-5	= 12600 mg/kg ( Rat )	> 10 g/kg ( Rabbit )	> 570 mg/m3 ( Rat ) 1 h

#### Information on toxicological effects

Symptoms

May cause an allergic skin reaction. May cause skin irritation. May cause redness and tearing of the eyes. May result in permanent damage including blindness. Coughing and/ or wheezing.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Sensitization	May cause sensitization by skin contact.
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.









Chemical Name	ACGIH	IARC	NTP	OSHA
2-Butoxyethanol 111-76-2	A3	Group 3	-	-

ACGIH (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC (International Agency for Research on Cancer)
Group 3 - Not Classifiable as to Carcinogenicity in Humans

Reproductive toxicity STOT - single exposure STOT - repeated exposure	Product is or contains a chemical which is a known or suspected reproductive hazard. Based on available data, the classification criteria are not met. May cause damage to organs through prolonged or repeated exposure.
Chronic toxicity	May cause adverse effects on the bone marrow and blood-forming system. May cause adverse liver effects.
Target Organ Effects	Blood, Central nervous system, Eyes, kidney, liver, Respiratory system, Skin, Urinary Tract, Hematopoietic System.
Aspiration hazard	Based on available data, the classification criteria are not met.

Numerical measures of toxicity - Product InformationThe following values are calculated based on chapter 3.1 of the GHS documentATEmix (oral)1,067.00 mg/kgATEmix (dermal)6,190.00 mg/kgATEmix (inhalation-dust/mist)18 mg/l

### **12. Ecological Information:**

#### **Ecotoxicity**

Harmful to aquatic life with long lasting effects

#### Persistence and degradability

No information available.

#### **Bioaccumulation**

Chemical Name	Partition coefficient
2-Propanol, 1-chloro-, phosphate (3:1) 13674-84-5	2.59
Diethylene glycol 111-46-6	-1.98
2-Butoxyethanol 111-76-2	0.81
N,N-Dimethylcyclohexylamine 98-94-2	2.01
Glycerin 56-81-5	-1.76

#### Other adverse effects

No information available







## **13. Disposal Considerations**

#### Waste treatment methods Disposal of wastes

Disposal should be in accordance with applicable regional, national and local laws and regulations.

**Contaminated packaging** 

Do not reuse container.

### 14. Transport Information

DOT	Not regulated
TDG	Not regulated
IATA	Not regulated
IMDG	Not regulated

### **15. Regulatory Information:**

International Inventories	
TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances **ENCS** - Japan Existing and New Chemical Substances IECSC - China Inventory of Existing Chemical Substances KECL

- Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

#### US Federal Regulations

#### SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %	
2-Butoxyethanol - 111-76-2	1.0	

#### SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	Yes
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No







#### CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

#### **CERCLA**

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

#### US State Regulations

#### California Proposition 65

This product contains the following Proposition 65 chemicals

Chemical Name		California Proposition 65		
Diethanolamine - 111-42-2		Carcir	Carcinogen	
1,4-Dioxane - 123-91-1		Carcinogen		
Formaldehyde - 50-00-0		Carcinogen		
Chemical Name	New Jersey	Massachusetts	Pennsylvania	
2-Butoxyethanol 111-76-2	Х	Х	Х	
N,N-Dimethylcyclohexyl- amine 98-94-2	Х	-	-	
Glycerin 56-81-5	Х	Х	Х	
Ethylene glycol 107-21-1	Х	Х	Х	
Diethanolamine 111-42-2	Х	Х	Х	
1,4-Dioxane 123-91-1	Х	Х	Х	
Formaldehyde 50-00-0	Х	Х	Х	

#### U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

#### **16. Other Information:**

NFPA Health hazards 3

Flammability 1 Instability 0 **Physical and Chemical Properties -**

HMIS Health hazards 3\*

Flammability 1 Physical hazards 0 \* = Chronic Health Hazard

Personal protection X

Chronic Hazard Star Legend

19-Jan-2025 Revision Date 19-Jan-2025

Revision Note No information available

#### Procedure used to derive the classification

Justification - Calculation method

#### Disclaimer

Issue Date

The information provided in this Material Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



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