

Material Safety Data Sheet



IDENTITY (As Used on Label and List)
SHELL-GUARD

Section I

Manufacturer's Name NovaGuard Technologies, Inc.	Emergency Telephone Number CHEMTREC 1-800-424-9300
Address (Number, Street, City, State, and ZIP Code) 1605 Prosser Road Knoxville, TN 37914	Telephone Number for Information 865-329-9900
Preparer's Name: David Kelly	Date Prepared 9-21-01 Signature of Preparer (optional)

Section II – Hazardous Ingredients/Identity Information

Hazardous Components (Specific Chemical Identity; Common Name(s))	CAS #	OSHA PEL	ACGIH TLV	Other Limits Recommended	% (optional)
Propylene Glycol	57-55-6	N/E	N/E		30-50
Polyethylene Glycol	25322-68-3	N/E	N/E		30-50
Disodium Octoborate Tetrahydrate	12008-91-2	15 mg/m ³ (dust)	10mg/m ³ (dust)		20-30

Section III – Physical/Chemical Characteristics

Boiling Point >369° F	Specific Gravity (H ₂ O=1) 1.1-1.3
Vapor Pressure (mm Hg.) 125mm Hg @ 100° F	Melting Point % Volatile (Volume) >1%
Vapor Density (AIR = 1) >1	Evaporation Rate (Butyl Acetate = 1) <1
Solubility in Water miscible in water, alcohol, acetone, some glycol ethers; insoluble in petroleum hydrocarbons.	
Appearance and Odor Clear, odorless liquid	

Section IV – Fire and Explosion Hazard Data

Flash Point (Method Used) Non-flammable	Flammable Limits Non-flammable	LEL	UEL
Extinguishing Media Non-flammable			
Special Fire Fighting Procedures Non-flammable			
Unusual Fire and Explosion Hazards None known			

Section V – Reactivity Data

Stability	Unstable		Conditions to Avoid
	Stable	✓	Avoid Extreme Heat
Incompatibility (Materials to Avoid) None required			
Hazardous Decomposition or By products None required			
Hazardous Polymerization	May Occur		Conditions to Avoid
	Will Not Occur	✓	None known

Section VI – Health Hazard Data

Route(s) of Entry Inhalation? N/A Skin? N/A Ingestion? Yes Eye Contact? Yes

Health Hazards (Acute and Chronic)

EYE CONTACT: May cause redness or irritation

INGESTION: In sufficient doses may cause gastrointestinal irritation.

SKIN CONTACT: N/A **INHALATION:** N/A

Carcinogenicity No NTP? No IARC Monographs? No OSHA Regulated? No

No adverse long term effects are known

Signs and Symptoms of Exposure

Medical Conditions

Generally Aggravated by Exposure No adverse long-term effects are known.

Emergency and First Aid Procedures

EYE CONTACT: Flush eyes immediately with clean water for at least fifteen minutes; if irritation persists, get medical attention.

INGESTION: If irritation persists get medical attention.

SKIN CONTACT: N/A

INHALATION: N/A

Section VII – Precautions for Safe Handling and Use

Steps to be Taken in Case Material is Released or Spilled

Soak up spill with absorbent material.

Waste Disposal Method

Dispose in accordance with all local, state and federal regulations.

Precautions to be Taken in Handling and Storing

Store in original container; keep tightly closed. Do not reuse container for other purposes.

KEEP OUT OF REACH OF CHILDREN.

Other Precautions

Read and observe all precautions on product label.

Section VIII – Control Measures

Respiratory Protection (*Specify Type*)

None normally required.

Ventilation

Local Exhaust

Special

None normally required.

Mechanical (General)

Other

Protective Gloves

None normally required.

Eye Protection

Safety glasses or goggles, if eye contact is likely.

Other Protective Clothing or Equipment:

None normally required.

Work/Hygienic Practices

The information contained herein is, to the best of **NovaGuard Technologies, Inc.** knowledge, accurate as of the date indicated. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar, and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume responsibility for the results of its use. This information is furnished on the condition that the person receiving it shall make his own determination as to the suitability of the material for his particular purpose and on the condition that he assume the risk of his use thereof.