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## MATERIAL SAFETY DATA SHEET

### SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

FOR: Grace Distributing Inc.  
600 E. Water Street, Suite E  
Charlottesville, VA 22902  
FOR: Nortrade AS, PB 181  
4662 Kristiansand, Norway

EMERGENCY CONTACT 24 hours:  
434-825-1529  
INFORMATION CONTACT: 434-825-1529

**SUBSTANCE:** A preparation of aqueous solution of acrylic polymers

**TRADE NAMES/SYNONYMS:** LifeGuard Active Rust Primer (Enviro-Coat 2000 Active Rust Primer 662 SG)

**USE OF THE SUBSTANCE:** Rust-preventing and rust-converting primer

**CHEMICAL FAMILY:** Acrylic

**CREATION DATE:** Aug. 24, 2006

**REVISION DATE:**

### SECTION 2: COMPOSITION, INFORMATION ON INGREDIENTS

Chemical name	Amount (optional)	CAS Number	TLV
2-(2-Butoxyethoxy)-ethanol	1 – 2.5%	112-34-5	OHSA: not established
Aqueous solution of acrylic polymers	50 - 75 %		OHSA: not established

**HAZARDS DISCLOSURE:** This product contains no known hazardous materials as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### SECTION 3: HAZARDS IDENTIFICATION

**NFPA RATINGS (SCALE 0-4):** HEALTH=0 FIRE=0 REACTIVITY=0

**EMERGENCY OVERVIEW:**

**COLOR:** Beige

**PHYSICAL FORM:** Liquid

**ODOR:** Mild

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

**FIRE AND EXPLOSION:** No specific hazard. The product is non-flammable.

**ENVIRONMENT:** The product is not known to represent any danger for the environment.

**POTENTIAL HEALTH EFFECTS:**

**INHALATION:**

**SHORT TERM EXPOSURE:** No information on significant adverse effects

**LONG TERM EXPOSURE:** No information is available



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**SKIN CONTACT:**

**SHORT TERM EXPOSURE:** No information on significant adverse effects  
**LONG TERM EXPOSURE:** No information is available

**EYE CONTACT:**

**SHORT TERM EXPOSURE:** No information on significant adverse effects  
**LONG TERM EXPOSURE:** No information is available

**INGESTION:**

**SHORT TERM EXPOSURE:** No information on significant adverse effects  
**LONG TERM EXPOSURE:** No information is available

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## SECTION 4: FIRST AID MEASURES

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**INHALATION:** If adverse effects occur, remove to uncontaminated area. Give artificial respiration if not breathing. If breathing is difficult, oxygen should be administered by qualified personnel. Get immediate medical attention.

**SKIN CONTACT:** In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

**EYE CONTACT:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

**INGESTION:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately.

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## SECTION 5: FIRE FIGHTING MEASURES

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**FIRE AND EXPLOSION HAZARDS:** Not a specific fire hazard. Not a specific explosion hazard.

**EXTINGUISHING MEDIA:** In case of fire, use water spray (fog), foam, dry chemical, or CO2.

**PERSONAL PROTECTION EQUIPMENT:** Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

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**Personal precautions** Immediately contact emergency personnel. Keep unnecessary personnel away. Use suitable protective equipment (Section 8). Follow all fire fighting procedures (Section 5).

**Environmental precautions** Minimize contact of spilled material with soils to prevent runoff to surface waterways. See Section 13 for Waste Disposal Information.

**Methods for cleaning** If emergency personnel are unavailable contain spilled material. For small spills add absorbent (soil may be used in the absence of other suitable materials) scoop up material and place in a sealed, liquid-proof container for disposal. For large spills dike spilled material or otherwise contain material to ensure runoff does not reach a waterway. Place spilled material in an appropriate container for disposal.



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## SECTION 7: HANDLING AND STORAGE

- Handling** Keep to the general safety and health regulations and to good housekeeping standards. Always keep the product in containers made of the same material as the supply container. See Section 8 for personal protection.
- Storage:** Observe label precautions. Store in a cool (33 - 122°F, 1 - 50°C) dry, well ventilated place away from sources of heat, ignition and direct sunlight.

## SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

### Exposure controls

- Occupational exposure controls** Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective occupational exposure limits. Ensure that eyewash stations and safety showers are proximal to the work station location.
- Respiratory protection** A respirator is not needed under normal and intended conditions of product use.
- Hand protection** Use latex gloves. Penetration time is not tested for this material. The penetration time might vary with exposure time, the type of work and the thickness of the glove material. Change gloves frequently.
- Eye protection** Safety glasses.
- Skin protection** (other than of hands) Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits).
- Other Information** Wash hands after handling compounds and before eating, smoking, using lavatory, and at the end of day. All personal protective equipment shall be CE-marked.

## SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Physical state</b>	Liquid
<b>Odor</b>	Mild
<b>Color</b>	Beige
<b>Solubility description</b>	Soluble in water
<b>Specific gravity</b>	Value: 1.05-1.10 g/cm <sup>3</sup> Comments: (20°C)
<b>Boiling point</b>	Value: 212°F [100°C]
<b>Freezing point</b>	Value: 32°F [0°C]
<b>PH (as supplied)</b>	Value: 2.0-2.8
<b>Flash point</b>	Comments: N.A.
<b>Explosion limit</b>	Comments: N.A.
<b>Spontaneous combustibility</b>	Comments: N.A.
<b>Vapor pressure</b>	Comments: Weighted average: 0.04 kPa (0.3 mm Hg) (at 20°C)
<b>Viscosity</b>	Value: 400-474 cP Comments: at 20°C



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<b>Taste:</b>	N.A.
<b>Molecular weight:</b>	N.A.
<b>Molecular formula:</b>	N.A.
<b>Freezing point:</b>	0°C/32°F
<b>Vapor density:</b>	N.A.
<b>Density:</b>	N.A.
<b>Water solubility:</b>	fully
<b>Volatility:</b>	N.A.
<b>Odor threshold:</b>	N.A.
<b>Evaporation rate:</b>	N.A.
<b>Coefficient of water/oil distribution:</b>	N.A.
<b>Solvent solubility:</b>	N.A.

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## SECTION 10 STABILITY AND REACTIVITY

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<b>Materials to avoid</b>	Slightly reactive to reactive with oxidizing agents.
<b>Hazardous decomposition products</b>	Not known.
<b>Stability</b>	The product is stable.

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## SECTION 11 TOXICOLOGICAL INFORMATION

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### Components' toxicological data

<b>Component</b>	2-(2-Butoxyethoxy)-ethanol
<b>LD50 oral</b>	Value: > 2000 mg/kg Test animal species: Rat
<b>LD50 dermal</b>	Value: > 2000 mg/kg
<b>Component</b>	Aqueous solution of acrylic polymers
<b>LD50 oral</b>	Value: > 5000 mg/kg Test animal species: Rat

### Other information regarding health hazards

<b>Inhalation</b>	No evaporation from the product at normal use or storage.
<b>Skin contact</b>	May cause slight irritation.
<b>Eye contact</b>	May cause temporary eye irritation.
<b>Ingestion</b>	May cause some irritation to mouth, throat and stomach.

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## SECTION 12 ECOLOGICAL INFORMATION

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### Components' toxicological data

<b>Component</b>	2-(2-Butoxyethoxy)-ethanol
<b>Acute aquatic, fish</b>	Value: 1805 mg/l Test method: Not known Species: Not known Duration: 48 hours
<b>Acute aquatic, Daphnia</b>	Value: 3200 mg/l Test method: Not known Species: Not known Duration: 24 hours
<b>Component</b>	Aqueous solution of acrylic polymers
<b>Acute aquatic, fish</b>	Value: 72 mg/l



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**Acute aquatic, Daphnia**

Test method: Not known  
Species: Not known  
Duration: 96 hours  
Value: > 100 mg/l  
Test method: Not known  
Species: Not known  
Duration: 48 hours

**Other ecological information**

Persistence and degradability

Degradability of the product has not been stated. 2-(2-Butoxyethoxy)-ethanol:

This product is readily biodegradable.

Bio-accumulative potential

The product is not expected to bio-accumulate.

Environmental details, conclusion

The product is not known to represent any danger for the environment.

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**SECTION 13 DISPOSAL CONSIDERATIONS**

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**Product classified as hazardous waste** No

**Packaging classified as hazardous waste** No

**Specify the appropriate methods of disposal**

The generation of waste should be avoided or minimized wherever possible. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. 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.

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**SECTION 14 TRANSPORT INFORMATION**

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**Other applicable information**

Not classified as dangerous goods.

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**SECTION 15 REGULATORY INFORMATION**

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Composition on the label

2-(2-Butoxyethoxy)-ethanol: 1 - 2.5 %, aqueous solution of acrylic polymers: 50-75 %

Other annotations:

**OSHA PROCESS SAFETY (29CFR1910.119):** Not regulated.