



Safety Data Sheet

Better Chemistry. Better Business

BOND GUARD ZRC-222

Revised: 03/20/23

1 IDENTIFICATION

Product Name: BOND GUARD ZRC-222

Product Code :2204902

Recommended use of the chemical and restrictions on use:Industrial applications

Hubbard-Hall Inc.

563 South Leonard Street

Waterbury, CT 06708

Telephone: 203-756-5521

Fax number: 203-756-9017

Emergency Phone Number

CHEMTREC: 1 (800) 424-9300

International: 1 (703) 527-3887

2 HAZARDS IDENTIFICATION



Signal Word: WARNING

Hazard Category: Skin Corrosion/Irritation Hazard Category 2

Eye Damage/Irritation Hazard Category 2B

Hazard Statements: Causes skin irritation.

Causes eye irritation.

Prevention: Wash skin thoroughly after handling.

Wear protective gloves, chemical protective clothing, eye protective goggles and face shield for face protection.

Response: If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Get immediate medical attention.

If on skin: Wash with plenty of water.

If eye irritation persists: Get medical attention .

Storage: Store locked up.

Disposal: Dispose of contents/container in accordance with local, regional, national, or international regulations.

3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Fluorozirconic acid		12021-05-3	5-10%
2-Amino-2-methyl-1-propanol	-	124-68-5	0-5%
Synthetic Detergent - Wetting Agents, Organic		Proprietary	1-5%

4 FIRST AID

After Skin Contact:

If on skin(on hair): Take off immediately all contaminated clothing. Rinse with water/safety shower. Call doctor if irritation persists.

After Eye Contact:

If in eyes: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritated, call doctor.

Most Important Symptoms/Effects**Eye:**

Irritation of eyes and skin.

Skin:

This product can cause mild, transient skin irritation. The severity of irritation will depend on the amount of material that is applied to the skin and the speed and thoroughness that it is removed. Symptoms include redness, itching, and burning of the skin. Repeated or prolonged skin contact can produce moderate irritation(dermatitis).

Indication of immediate medical attention:

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

5 FIRE FIGHTING MEASURES

Suitable and Unsuitable extinguishing media:

Will not burn or support combustion. Use extinguishing media appropriate for surrounding fire, such as water spray, dry chemical, foam or carbon dioxide.

Specific hazards arising from the chemical:

Carbon oxides may be produced.

Special protective equipment and precautions for firefighter

Wear chemical resistant protective equipment and self contained breathing apparatus (SCBA).

6 ACCIDENTAL RELEASE MEASURES

Methods and Materials for containment & cleaning up:

Stop spill at source.

Caution: Spilled material may be slippery.

7 HANDLING AND STORAGE

Precautions for safe handling:

Wash hands thoroughly after handling.

Wear rubber gloves, goggles and chemical protective clothing.

Eating, drinking and smoking in the work area is prohibited.

Conditions for safe storage, inc any incompatibilities:

Keep container closed and store away from incompatible materials

Not damaged by freezing

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Fluorozirconic acid	-	2.5 mg/m3 as F	
2-Amono-2-methyl-1-propanol	-	Not Established	
Synthetic Detergent - Wetting Agents, Organic		ND	

ACGIH - American Control of Governmental Hygenists
OSHA - Occupational Safety and Health Administration

Protective Gloves: Rubber gloves, chemical goggles or protective eyewear, boots, aprons & hard hat if in contact

Eye Protection: Wear chemical safety goggles & full face shield

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear Colorless Liquid
Odor: Mild odor
Odor Threshold: N/A
PH: 5
Melting Point/Freezing Point: NA
Initial Boiling Point and Boiling Range: 212 °F+
Flash Point: NA
Evaporation Rate: NA
Flammability (solid, gas): N/A
Upper/Lower flammability or explosive limits: non-flammable
Vapor Pressure: NA
Vapor Density: NA
Relative Density: 1.05
Solubility (ies): 100%
Partition Coefficient; n-octanol/water: NA
Auto-ignition Temperature: N/A
Decomposition Temperature: NA
Viscosity: NA

10 STABILITY AND REACTIVITY

Reactivity: Hazardous Polymerization will not occur.
Chemical Stability: Stable under normal conditions
Possibility of Hazardous Reactions: Hazardous polymerization does not occur.
Incompatible Materials: Avoid contact with strong oxidizers and strong acids .

11 TOXICOLOGICAL INFORMATION

Oral Administration: Not established for this product
Dermal administration: Not established for this product
Immediate effects: Irritation/ burns of skin and eyes.
Immediate effects: Irritation of skin and eyes.

Cancer Hazard: Not listed by IARC, NTP, OSHA, ACGIH
Routes of Exposure Eyes, Skin, Inhalation, Ingestion

12 ECOLOGICAL INFORMATION

Persistence and Degradability: Will biodegrade readily
Biotic degradability: No data available
Bioaccumulation potential: Unlikely
Water result: Disperses in water.
Soil/Sediment Result: No data available
Other adverse effects(such as hazardous to the ozone layer): Not known

13 DISPOSAL CONSIDERATION

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

14 TRANSPORT INFORMATION

UN Proper Shipping Name: NOT DOT REGULATED

15 REGULATORY INFORMATION

HMIS: Health: Flammability: Reactivity:

Sara Hazard Classification The chemicals in this product are not subject to SARA Title III , Section 313 Reporting Requirements.
Proposition 65 No Proposition 65 listed components in this formula
TSCA Inventory Status All components of this product are on the TSCA inventory or are exempt from TSCA inventory requirements .

16 OTHER INFORMATION

Disclaimer: The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.