I&I Guard®-MSF
BY VORTEX

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name	• I&I Guard®-MSF
Trade Name	• I&I Guard®-MSF Activator
Company	• Quadex LLC, 564 W. 9320 S., Sandy, UT 84070
Company Contact	• Matthew Peterson
Company Phone	• 844-782-4832
Emergency	• Domestic Shipments and to Canada: 1-800-633-8253 • International Shipments: 1-801-629-0667

2. HAZARDS IDENTIFICATION

GHS Classification		
	Skin Irritation	• Category 3
	Eye Irritation	• Category 2
GHS Label	*Pictogram* 	
Signal Word	• Warning	
Hazard Statement(s)		
	• May cause skin irritation.	
	• May cause eye irritation.	
	• May cause respiratory irritation	
Precautionary Statements		
	• Do not breathe fume/gas/mist/vapors/spray.	
	• Wear protective gloves/eye protection/face protection.	
	• IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing.	
	• IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.	
	• IF ON SKIN: Wash with plenty of soap and water.	

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components	Cas #	Weight %
Tertiary Amine Catalysts	• Proprietary	• Trade Secret
Propylene Carbonate	• 108-32-7	• Trade Secret

4. FIRST AID MEASURE

First Aid Procedures	
Inhalation	• Move to fresh air if symptoms develop. If breathing is difficult, give oxygen and call physician.
Eye Contact	• Flush with water for at least 15 minutes. See a physician if irritation develops.
Ingestion	• Induce vomiting; get medical attention.
Most Important symptoms and effects, acute and delayed	• May cause skin or eye irritation upon contact. Avoid breathing vapors. The dense vapors can displace and reduce breathing air in confined or unventilated spaces causing asphyxiation. Overexposure may cause tremors, confusion, irritation, and may result in cardiac sensitization.
Indication of immediate medical attention and special treatment, if applicable	• N/A
Skin Contact	• Wash with soap and water at first opportunity.

5. FIRE FIGHTING MEASURES

Suitable Extinguishing Media	• Water, dry chemicals, CO_2
Unsuitable Extinguishing Media	• None
Special hazards arising from the chemical	• None
Precautions for Fire-Fighters	• A self-contained breathing apparatus should be worn to protect against toxic and irritating vapors.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures	• Clear area. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.
Environmental Precautions	• Do not discharge into drains/surface waters/groundwater.
Methods and material for containment and cleanup	• Absorb with sawdust, etc., and shovel into container. Waste material should be disposed of under conditions which meet federal, state, and local environmental regulations.

7. HANDLING AND STORAGE

Precautions for safe handling	• Store between 65°F and 85°F out of sunlight. Relieve pressure slowly when opening container. Under no circumstances should empty drums be burned or cut open with an electric or gas torch.
Conditions for safe storage, including any incompatibilities	• Keep tightly sealed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits	Type	Value
Tertiary Amine Catalysts[1]	• TWA	• None established
Propylene Carbonate	• TWA	• None established
[1]Not listed as a carcinogen (NTA, IARC, OSHA)		

Exposure Controls	
Respiratory Protection	• The specific respirator selected must be based on contamination levels of this material found in the workplace and the working limits of the respirator. A supplied air, full-face mask, positive pressure or continuous flow respirator or a supplied air hood is required when airborne concentrations are unknown or exceed threshold limit values. A positive pressure, self-contained breathing apparatus can be used in emergencies or other unusual situations. Full-face air purifying respirators equipped with organic vapor cartridges can be used in certain situations, see OSHA standard 29CFR 1910.134. All equipment must be NIOSH approved and maintained.
Hand, Eye, Skin, Body Protection	• Wear goggles or chemical safety glasses and chemically resistant rubber or plastic gloves. Avoid eye and skin contact. Eye wash system and showers should be available.

9. PHYSICAL & CHEMICAL PROPERTIES

Appearance	• Liquid
Color	• Yellow
Odor	• Ammoniacal odor
Odor Threshold	• N/A
pH	• N/A
Melting Point/Freezing Point	• <32°F
Boiling Point/Boiling Range	• 140°F
Flash Point	• >300°F
Evaporation Rate	• Slower than ether
Flammability	• No
Upper/Lower Flammability or Explosive Limits	• N/A
Vapor Pressure	• N/A
Vapor Density	• N/A

9. PHYSICAL & CHEMICAL PROPERTIES (CONTINUED)

Relative Density	• 0.92 g/mL
Solubility (Water)	• Slightly soluble in water
Partition Coefficient (Noctanol/Water)	• N/A
Auto-Ignition Temperature	• >500°F
Decomposition Temperature	• >500°F

10. CHEMICAL STABILITY & REACTIVITY INFORMATION

Chemical Stability	• Stable
Possibility of Hazardous Reactions	• N/A
Conditions to Avoid	• Temperatures over 85°F
Incompatible Materials	• Isocyanates and other chemicals that react with hydroxyl groups.
Hazardous Decomposition Products	• When burned, CO, CO_2, NOx aliphatic fragments, halogens, halogen acids and possibly carbonyl halides.

11. TOXICOLOGICAL INFORMATION

Acute Toxicity	• May cause skin irritation.
Chronic Toxicity	• Not available.
Likely Routes of Exposure	• Skin
Symptoms related to physical, chemical and toxicological characteristics	• May cause skin irritation.
Delayed and immediate effects and chronic effects from short and long-term exposure	• May cause skin irritation; avoid contact with eyes.
Numerical Toxicity Measures	• Not available.

12. ECOLOGICAL INFORMATION

Ecotoxicity	• Not a marine pollutant.
Persistence and Degradability	• No known significant effects.
Bioaccumulative Potential	• Does not bioaccumulate.
Mobility in Soil	

13. DISPOSAL CONSIDERATIONS

Waste Disposal	• B component drums can be sent to drum reconditioners or disposed of as ordinary industrial waste in compliance with pertinent regulations

14. DISPOSAL CONSIDERATIONS

UN Number	• Not regulated.
UN Proper Shipping Name	• Not regulated.
Transport Hazard Class(es)	• Not regulated.
Packing Group, if Applicable	• Not regulated.
Marine Pollutant (Y or N)	• N
Special Precautions	• None

15. REGULATORY INFORMATION

Relevant Safety, Health, and Environmental Regulations	
Inventory Status	• All components TSCA listed.
US Regulations	• No ingredients listed.
US Superfund Amendments and Reauthorization Act (SARA) Title III Section 313 information	• No ingredients listed.

16. OTHER INFORMATION

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Issue Date	• Not available.
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