

Material Safety Data Sheet

AR-1000 Anti Corrosion Coating

Section I – Chemical Product and Company Information

Chemical Product Information:

Product Code: AR 1000
Product Name: High Temperature Polyurethane Coating
Product Class: Aromatic Isocyanate
Date Prepared: July 1, 2009

Manufacturer Identification:

KSG Innovations, LLC
369 Washington Street
Dedham, Massachusetts 02026
(781) 470-43333

Section II Ingredient Information

Ingredient	CAS Number	Percentage	OSHA	AGIH
Polyisocyanate prepolymer based on		25-30		
Diphenylmethane Diisocyanate	101-68-8	5-25		
Polymetric Diphenylmethane	9016-87-9	1-12		
Diphenylmethane Diisocyanate	26447-40-5	1-5		
Mixed isomers				
Light Aromatic Solvent Naptha	64742-95-6	50-60	25ppm TWA	
			150ppm STEL	

Section III Hazards Identification

Overview:

Harmful if swallowed.
Causes Eye irritation.
Causes skin irritation.
Breathing spray is harmful.

Potential Health Effects:

Eye: Exposure to liquid or vapor may cause eye irritation. Symptoms may include burning, tearing, redness and swelling.
Skin: May cause skin irritation. Repeated or prolonged contact with the skin may cause allergic dermatitis.

Inhalation:

Exposure to high concentrations of vapors may cause dizziness, breathing difficulties, headaches, respiratory irritation
Asthma and asthma like symptoms. Prolonged or large dose exposure may cause certain individuals to develop sensitizations to diisocyanates. Chronic overexposure has also been reported to cause lung damage including fibrosis and decrease in lung function that may be permanent.

Ingestion:

Moderately toxic. May cause stomach discomfort, nausea, vomiting, diarrhea and narcosis.

Section IV First Aid

Eye Contact: Immediately flush eyes with plenty of water. Seek medical attention if irritation persists.

Skin Contact: Wash skin thoroughly with soap and water. Remove and launder contaminated clothing before reuse.

Ingestion: Immediately seek medical attention. Give a copy of this MSDS to the physician. Do not induce vomiting before consulting a physician.

Section V Fire Fighting Measures

Flash Point: 111 FC Setaf flash (ASTM-D3243, D-3278, D3238)

Extinguishing Media:

Use dry chemical, carbon dioxide or chemical foam. Water may be use to cool containers that have not ruptured.

Fire Fighting Procedures and Equipment:

Firefighters should wear self contained breathing apparatus.

Do not store near sources of heat, sparks or open flames. Keep away from sources of heat such as direct sunlight, heaters or stoves that could cause the container to burst. Do not store at temperatures above 48C

Section VI Accidental Release Measures

Clean up and containment: remove all sources of ignition. Avoid heat, sparks and flames. Ventilate the immediate and

adjacent areas. Absorb and remove with non sparking tools.

Section VII Handling and Storage

Handling: Wash hands thoroughly after using.

Storage: Store in a cool dry area with ventilation suitable for the chemicals listed in Section II.

Keep away for heat, sparks and flames.

Do not store at temperatures above 48C.

Section VIII Exposure Controls and Personal Protection

Engineering Controls: Adequate ventillation tp prevent over exposure.

Respiratory Protection: Respirator that conforms to 29 CFR 1910.134

Skin Protection: Protect all skin from contact. Chemical resistant gloves are recommended.

Eye Protection: Liquid chemical goggles or full face shield.

Section IX Physical and Chemical Property

Boiling Point: 320-349 F

Density: 0.99

VOC (gm/l): 383

Section X Stability and Reactivity

Conditions to avoid: Avoid heat, sparks and open flames. Product may explode if heated.

Incompatibilities: Strong oxidizing agents, acids or bases.

Decomposition: Thermal decomposition may produce carbon dioxide, carbon monoxide and other organic compounds.

Polymerization: May occur.

Stability: These products are stable under normal conditions.

Section XI Toxicological Information

See Section III.

Section XII Ecological Information

Not available.

Section XIII Disposal Considerations

Dispose in accordance with all governmental regulations.

Section XIV Transportation information

UN 1866

Section XV Other Information

HMIS Ratings:

Health 2

Flammability 3

Reactivity 1

Personal Protection G