SAFETY DATA SHEET

SECTION 1: Identification

Trade Name: MAINSTAY DS-5 B

Trade Name: MAINSTAY DS-5 PART B

EMERGENCY PHONE: PERS 1-800-633-8253

MANUFACTURER:
Madewell Products Corporation
7561 Industrial Court
Alpharetta GA 30004
Phone: (770) 475-8199

SECTION 2: Hazard(s) Identification

GHS Ratings:

Flammable liquid	4	Flash point >= 60°C (140°F) and <= 93°C (200°F)
Inhalation Toxicity	3	Gases>500+<=2500ppm, Vapors>2+<=10mg/l, Dusts&mists>0.5+<=1mg/l
Skin corrosive	1A	Destruction of dermal tissue: Exposure < 3 min. Observation < 1 hour, visible necrosis in at least one animal
Eye corrosive	1	Serious eye damage: Irreversible damage 21 days after exposure, Draize score: Corneal opacity >= 3, Iritis > 1.5
Skin sensitizer	1	Skin sensitizer
Carcinogen	1A	Known Human Carcinogen Based on human evidence

GHS Hazards

H227	Combustible liquid
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H331	Toxic if inhaled
H350	May cause cancer

GHS Precautions

P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood
P210	Keep away from heat/sparks/open flames/hot surfaces – No smoking
P235	Keep cool
P260	Do not breathe dust/fume/gas/mist/vapours/spray
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling
P272	Contaminated work clothing should not be allowed out of the workplace
P280	Wear protective gloves/protective clothing/eye protection/face protection
P281	Use personal protective equipment as required
P310	Immediately call a POISON CENTER or doctor/physician
P321	Specific treatment (see instructions on this label)
P363	Wash contaminated clothing before reuse
P301+P330+P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting
P302+P352	IF ON SKIN: Wash with soap and water
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308+P313	IF exposed or concerned: Get medical advice/attention
P333+P313	If skin irritation or a rash occurs: Get medical advice/attention
P370+P378	In case of fire: Use … for extinction
P405	Store locked up
P403+P235	Store in a well ventilated place. Keep cool
P501	Dispose of contents/container to …

Signal Word: Danger

SECTION 3: Composition/Information on Ingredients

Chemical Name	CAS number	Weight Concentration %
TITANIUM DIOXIDE	13463-67-7	20.00% - 30.00%
POLYOXYPROPYLENE DIAMINE	9046-10-0	10.00% - 20.00%
ISOPHORONEDIAMINE	2855-13-2	10.00% - 20.00%

SECTION 4: First Aid Measures

INHALATION: Move person to fresh air and keep at rest in a position for breathing: if breathing is irregular, provide artificial respiration; if thrre are breathing difficulties, administer oxygen; get medical attention.
EYE CONTACT: Bathe the eye with running water for at least 15 minutes, lifting upper and lower eyelids. Get medical attention immediately.
SKIN CONTACT: Rinse immediately with plenty of water: remove contaminated clothing; wash thoroughly with soap and waer for at least 15 minutes. If irritation, rash or other adverse effects develop, get medical attention immediately.
INGESTION: Do NOT induce vomiting unless advised by a physician. Rinse out mouth with water. Call nearest Poison Control Center or physician immediately.
Most important symptoms and effects, both acute and delayed. Harmful in contact with skin, if swallowed or inhaled; can cause severe skin burns and eye damage; may cause an allergic skin reaction.

Indication of any immediate medical attention and special treatment needed.
Treat symptomatically.
Eye wash stations and emergency showers should be available.

SECTION 5: Fire Fighting Measures

Flash Point: 93 C (199 F)
LEL: 1.0% UEL: 5.0%

Extinguishing Media
Carbon dioxide, alcohol resistant foam, dry chemical, water fog; use water spray to cool fire-exposed containers.

Special hazards arising from the substance or misture
Product may ignite if heated in excess of its flash point. Vapors may travel to sources of ignition and flash back. Vapor concentrations in enclosed areas my ignite explosively. Empty containers may contain ignitable vapors. Exposure to decomposition products may be harmful to health; combustion products may include but are not limited to: carbon monoxide carbon dioxide, nitrogen oxides; the formation of hydrocarbon fragments is possible in

the initial stages of fire; smoke may contain particles of the orginal material as well. Prevent fire-fighting waters from entering sewer or waterways.

Advice for fire fighters: Use protective fire fighting clothing and positive pressure self contained breathing apparatus to protect against potential harmful and/or irritating fumes. Do not use high pressure water jet as this may spread the area of the fire.

SECTION 6: Accidental Release Measures

Personal precautions
Isolate area: ensure adequate ventilation; remove all sources of ignition; use appropriate personal protection equipment; avoid breathing mist, vapors, spray; avoid contact with skin, eyes and clothing; keep unnecessary and unprotected personnel from entering the involved area.

Environmental precautions
Halt the flow of materials as soon as practical using appropriate barriers; turn containers leak-side up to stop the escape of liquid. Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches, waterways by using sand, earth or appropriate barriers.

Methods and material for containment and clean up
Soak up with sand, earth, diatomaceous earth or other suitable inert absorbent materials; collect into suitable waste disposal containers. Reuse uncontaminated materisl when possible. Wsh spillage site with large amounts of water, Dispose of in accordance with applicable local and federal enviromnental control laws and regulations.

SECTION 7: Handling and Storage

Precautions for safe handling
Ensure adequate ventilation. Prevent inhalation of vapor, ingestion, and contact with skin, eyes and clothing. Keep containers closed when not is use. Precautions apply to empty containers as well. Do not eat, drink, or smoke in the work area. Wash thoroughly after handling. Personal protective equipment must be worn during maintenance or repair of mixers, reactors or other equipment containing the material.

Conditions for safe storage, including any incompatibilities
Store in a cool, dry area with adequate ventilation. Do not store with strong oxidizing agents.

SECTION 8: Exposure Controls/Personal Protection

Chemical Name / CAS No.	OSHA Exposure Limits	ACGIH Exposure Limits	Other Exposure Limits
TITANIUM DIOXIDE 13463-67-7	TWA 15 MG/M3	TWA 10MG/M3	Not Established
POLYOXYPROPYLENE DIAMINE 9046-10-0	Not Established	Not Established	Not Established
ISOPHORONEDIAMINE 2855-13-2	Not Established	Not Established	Not Established

Engineering controls:
Follow good industrial workplace practices; do not eat, drink or smoke while handling; wash hands before breaks and at end of workshift; follow recommendations in this SDS.

Environmental exposure controls
Observe all precautions to prevent contamination of soil and waterways.

Eye/face protection
Wear tight-fitting chemical safety goggles and/or face shield to prevent eye contact.

Skin protection
Wear impervious clothing as necessary to protect against product contact. Necessity for boots, apron, face shield, etc. will be dependent on any hazards presented in the work process.

Respiratory protection
Respiratory protection is required wherever exposure limits are exceeded; use a NIOSH approved organic vapor cartridge respirator following the guidelines of an established respiratory protetion program in compliance whith 29CFR1910.134

Hand protection
Use suitable impervious neoprene or nitrile rubber gloves. When prolonged or frquently repeated contact may occur, glove material should have a breakthrough time that exceeds 480 minutes; when only brief contact is expected, a glove with a lesser breakthrough rating may be suitable.

Other protective equipment
The type and degree of personal protective equipment appropriate will depend on the specific work operation. Eye wash stations and emergency shower should be available. Inspect and replace personal protective equipment at regular intervals; use professional care in their selection, use and care

SECTION 9: Physical and Chemical Properties

PHYSICAL STATE: LIQUID
pH: Alkaline
RELATIVE EVAPORATION RATE: <1
MELTING POINT: Not determined
BOILING POINT: Not determined
FLASH POINT: >93C (>200F) (cc)
AUTO IGNITION TEMPERATURE: Not determined
DECOMPOSITION TEMPERATURE: Not determined
VAPOUR PRESSURE: Not determined
RELATIVE VAPOUR DENSITY: >1
SPECIFIC GRAVITY: 1.03
SOLUBILITY: Nil
EXPLOSIVE PROPERTIES: Not determined
OXIDISING PROPERTIES: Not determined

SECTION 10: STABILITY AND REACTIVITY

Reactivity: No dangerous reaction is known under normal use and storage conditions.
Stability: Stable under normal use and storage conditions.
Possibility of hazardous reactions: Mixtures with strongly acidic and strongly alkaline materials may produce an exothermic reaction.

Conditions to avoid: Avoid elevated temperatures and sources of ignition.
Incompatible materials: Acids, oxidizing agents, epoxies, isocyanates.
Hazardous decomposition products: Thermal decomposition will generate caron monoxide, carbon dioxide and nitrogen oxides.

SECTION 11: Toxicological Information

Mixture Toxicity
Inhalation Toxicity LC50: 4mg/L
Component Toxicity
9046-10-0 POLYOXYPROPYLENE DIAMINE

Oral LD50: 2,885 mg/kg (RAT) Dermal LD50: 2,980 mg/kg (RABBIT) Inhalation LC50: 1 mg/L

Information on toxicological effects
Acute Oral Toxicity: LD50(rat): 1300 mg/kg (ATE)
Acute Dermal Toxicity: LD50(rabbit): 1940 mg/kg (ATE)
Acute Inhalation Toxicity: >5.01mg/l
Skin Corrosion/Irritation: Causes severe skin burns and eye damage.
Serious Eye Damage/Irritation: Causes serious eye damage.
Skin Sensitization (guinea pig): May cause an allergic skin reaction.
Germ cell Mutagenicity: Not classified as mutagenic.
Caracinogenicity: Not classified as carcinogenic. Not listed by OSHA/NTP/IARC.
Reproductive Toxicity: Not classified as reproductive toxin.
Specific Target Organ Toxicity - single exposure: Product not classified based on available data.
Specific Target Organ Toxicity - repated exposure: Product not classified based on available data.
Aspiration Hazard: Possible aspiration hazard alkaline).

Potential Health Effects:
Skin Contact: Corrosive; harmful in contact with skin; may cause itching, reddening, inflammation. May cause severe burns, blistering and skin damage; may cause an allergic reaction.
Eye Contact: Contact with vapors or liquid may cause tearing, blurred vision, severe irritation, possible chemical burns and corneal injury.
Ingestion: Harmful if swallowed; can cause severe and permanent damage to mouth, throat and stomach, may cause injury to the liver and kidneys.
Inhalation: harmful if inhaled; can cause moderate to severe irritation of the respiratory tract.

Chronic Health Effects:
May cause sensitization by contact. Prolonged skin contact may cause irritation, rash, burns or dermatitis; repeated overexposure to vapors and/or liquidmay injure the liver, kidneys and respiratory system. May aggravate individuals sensitized to amines.

Effects of Overexposure

CAS Number	Description	% Weight	Carcinogen Rating
None			N/A

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

Acute/prolonged toxicity to fish:LC50(Lepomis macrochirus)(96-hr): 16 mg/l (ATE)
Acute/prolonged toxicity to aquatic invertebrates: EC50 (Daphnia magna)(48-hr): 35 mg/l (ATE)
Acute/prolonged toxicity to aquatic plants: EC50 (Green algae)(72-hr): >50 mg/l (ATE)
Toxicity to bacteria, to soil dwelling organisms and to terrestrial plants: No data available
Chronic toxicity to aquatic organisms: No data available
General effect: Harmful to aquatic life with long lasting effects.
Persistence and degradability: Not expected to be readily biodegradable
Bioaccumulative potential: One or more products components has a low potential to bioaccumlate
Mobility in soil: No data available; do not allow product to enter soil/subsoil
Results of PBT and vPvB assessment (EC reg. 453/2010): Product not classified as Persistent, Bioaccumulative

and Toxic
Product not classified as very Persistent or very Bioaccumulative
Other advers effects: No other adverse effects ae identified

Component Ecotoxicity

SECTION 13 - DISPOSAL CONSIDERATIONS

Disposal: Do not dump to ground, sewers or watercourses. Incinerate or otherwise dispose of in compliance with all applicable federal, state and local environmental control laws and regulations. Waste characterization according to RCRA guidelines and compliance with applicable laws are the responsibility solely of the waste generator.
Container Disposal: Containers should be drained of all residual product prior to disposal.

SECTION 14 - TRANSPORT INFORMATION

DOT, IMDG, AND IATA Proper Shipping Description: UN1760, Corrosive Liquids NOS (contains polyoxypropylene and modified amine)
Hazard Class 8 PG III
I

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture
SARA Title III Section 311/312 (40CFR370): Acute health hazard
SARA Title III Section 313 (40CFR372): No reportable components
CERCLA Status (40CFR302): No reportable components
RCRA Status (40CFR261): Not listed
OSHA/NTP/IARC Carcinogen Status: Not listed
TSCA Inventory Status: Reported/included
Canadian DSL Status: Rported/included
Canadian WHMIS Status: D2B,E
Chemicals known to the state of California to cause cancer or reproductive toxicity: None known to be in the product at levels requiring a warning
Chemical safety assessment: Not available
State of California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): WARNING! This product contains the following chemicals which are listed by the State of California as carcinogenic or a reproductive toxin:

14808-60-7 QUARTZ 30 - 40% REPRODUCTIVE

Country **Regulation** **All Components Listed**

EU Risk Phrases

Safety Phrase

SECTION 16 - OTHER INFORMATION

HMIS ratings:
Health: **3**
Flammability:**1**
Reactivity:**0**

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Reviewer Revision

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