


### SAFETY DATA SHEET – B SIDE

SECTION 1: PRODUCT & COMPANY INFORMATION	
Supplier / Manufacturer: Demilec Inc. 3315 E. Division Street, Arlington, TX 76011 Phone: 817-640-4900 / Fax: 817-633-2000 E-mail: Info@Demilec.com / Website: www.Demilec.com	GHS Product Identifier: Maxguard® U255PW B-side Chemical Name: Amines Product Type: Liquid Identified Use: Component B of a Spray-Applied Polyurea System
Emergency Telephone in USA: CHEMTREC 800-424-9300. In Canada: CANUTEC 613-996-6666 or *666 (cellular).	

SECTION 2: HAZARDS IDENTIFICATION	
OSHA / HCS Status	This material is classified hazardous under OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the Substance or Mixture	Acute Toxicity (Oral) - Category 4 Acute Toxicity (Dermal) - Category 4 Skin Corrosion/Irritation - Category 1B Serious Eye Damage/ Eye Irritation - Category 1 Specific Target Organ Toxicity (Repeated Exposure) (pancreas) - Category 2 Aquatic Hazard (Acute) - Category 2 Aquatic Hazard (Long-Term) - Category 2

GHS LABEL ELEMENTS INCLUDING PRECAUTIONARY STATEMENTS	
Hazard Pictograms	
Signal Word	Danger
Hazard Statements	H302 + H312 - Harmful if swallowed or in contact with skin. H314 - Causes severe skin burns and eye damage. H373 - May cause damage to organs through prolonged or repeated exposure (pancreas). H411 - Toxic to aquatic life with long lasting effects.

PRECAUTIONARY STATEMENTS	
Prevention	P280 - Wear protective gloves. Wear eye or face protection. Wear protective clothing. P270 - Do not eat, drink or smoke when using this product. P273 - Avoid release to the environment. P260 - Do not breathe vapor. P264 - Wash hands thoroughly after handling.
Response	P391 - Collect spillage. P314 - Get medical attention if you feel unwell. P304 + P340 + P310 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. P301 + P310 + P330 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. P303 + P361 + P353 + P363 + P310 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. P305 + P351 + P338 + P310 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or physician.
Storage	P405 - Store locked up.
Disposal	P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

HAZARDS NOT OTHERWISE CLASSIFIED (HNOC)	
Physical Hazards Not Otherwise Classified (PHNOC)	None known.
Health Hazards Not Otherwise Classified (HHNOC)	None known.

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS		
Substance / Mixture	Mixture	
Chemical Name	Amines	
CAS NUMBER / OTHER IDENTIFIERS		
CAS Number	Not applicable.	
Product Code	Not available.	
INGREDIENTS	CAS #	%
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2 aminomethylethoxy)-	9046-10-0	60 - 80
Diethylmethylbenzenediamine	68479-98-1	8 - 20
4,4'-Methylenebis[N-sec-butylaniline]	5285-60-9	8 - 20
Any concentration shown as a range is to protect confidentiality or is due to batch variation. There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section. Occupational exposure limits, if available, are listed in Section 8.		

SECTION 4: FIRST AID MEASURES	
DESCRIPTION OF NECESSARY FIRST AID MEASURES	
Eye Contact	Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Skin Contact	Get medical attention immediately. Call a poison center or physician. Flush contaminated skin with plenty of water. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 20 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway.
MOST IMPORTANT SYMPTOMS / EFFECTS, ACUTE AND DELAYED	
POTENTIAL ACUTE HEALTH EFFECTS	
Eye Contact	Causes serious eye irritation.
Inhalation	No known significant effects or critical hazards.
Skin Contact	Causes severe burns.
Ingestion	No known significant effects or critical hazards.
OVER-EXPOSURE SIGNS / SYMPTOMS	
Eye Contact	Adverse symptoms may include the following: pain, watering, redness.
Inhalation	No known significant effects or critical hazards.
Skin Contact	Adverse symptoms may include the following: pain or irritation, redness, blistering may occur.
Ingestion	Adverse symptoms may include the following: stomach pains.
INDICATION OF IMMEDIATE MEDICAL ATTENTION AND SPECIAL TREATMENT NEEDED, IF NECESSARY	
Notes to Physician	In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific Treatments	No specific treatment.
Protection of First-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.
See toxicological information (Section 11)	

SECTION 5: FIRE FIGHTING MEASURES	
Suitable Extinguishing Media	Use an extinguishing agent suitable for the surrounding fire.
Unsuitable Extinguishing Media	None known.
Specific Hazards Arising from the Chemical	This material is toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous Thermal Decomposition Products	Combustion products may include carbon monoxide, carbon dioxide, nitrogen oxides, traces of ammonia vapors, aldehydes and ketones, low molecular weight organic products.
Special Protective Actions for Fire Fighters	No special measures are required.
Special Protective Equipment for Fire Fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

#### SECTION 6: ACCIDENTAL RELEASE MEASURES

##### PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES

For Non-emergency Personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For Emergency Responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For Non-emergency Personnel".
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.

##### METHODS AND MATERIALS FOR CONTAINMENT AND CLEANING UP

Spill	Stop leak if without risk. Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
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#### SECTION 7: HANDLING & STORAGE

##### PRECAUTIONS FOR SAFE HANDLING

Storage Temperature	59 – 86°F (15 – 30°C)
Storage Life	6 months
Protective Measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on General Occupational Hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for Safe Storage Including any Incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

#### SECTION 8: EXPOSURE CONTROL / PERSONAL PROTECTION

##### CONTROL PARAMETERS - UNITED STATES

###### OCCUPATIONAL EXPOSURE LIMITS

None.

##### CONTROL PARAMETERS - CANADA

###### OCCUPATIONAL EXPOSURE LIMITS

None.

Appropriate Engineering Controls	If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental Exposure Controls	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

##### INDIVIDUAL PROTECTION MEASURES

Hygiene Measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/Face Protection	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
Hand Protection	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
Body Protection	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other Skin Protection	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory Protection	Use a properly fitted, air-purifying or supplied air respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

#### SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

Physical State	Liquid
Color	Transparent, pale yellow to amber
Odor	Amine
Odor Threshold	Not available
pH	Not available
Melting Point	Not available
Boiling Point	Not available
Flash Point	Closed cup: > 356°F (180°C) (Pensky-Martens)
Evaporation Rate	Not available
Flammability (solid, gas)	Not available
Lower and Upper Explosive (flammable) Limits	Not available
Vapor Pressure	Not available
Vapor Density	Not available
Specific Gravity @ 77°F (25°C)	0.95 - 1.05
Solubility	Not available
Partition Coefficient: N-Octanol/Water	Not available
Auto-Ignition Temperature	Not available
Decomposition Temperature	Not available
Viscosity @ 77°F (25°C)	100 - 400 cps
Volatility	Not available

#### SECTION 10: STABILITY & REACTIVITY

Reactivity	No specific test data related to reactivity available for this product or its ingredients.
Chemical Stability	The product is stable.
Possibility of Hazardous Reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to Avoid	Avoid exposure to moisture and high temperatures to protect product quality.
Incompatible Materials	Reactive or incompatible with the following materials: oxidizing materials, reducing materials, acids and alkalis. Avoid unintended contact with isocyanates.
Hazardous Decomposition Products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

#### SECTION 11: TOXICOLOGICAL INFORMATION

##### ACUTE TOXICITY

Product / Ingredient Name	Endpoint	Species	Result	Exposure
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	LD50 Dermal	Rabbit	360 mg/kg	-
	LD50 Oral	Rat	242 mg/kg	-
Diethylmethylbenzenediamine	LD50 Oral	Rat	472 mg/kg	-
4,4'-Methylenebis[N-sec-butylaniline]	LD50 Oral	Rat	1,400 mg/kg	-

#### IRRITATION / CORROSION

Product / Ingredient Name	Result	Species	Score	Exposure	Observation
Poly[oxy(methyl-1,2-ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-	Eyes - Severe irritant	Rabbit	-	100 mg	-

#### SENSITIZATION

There is no data available.

#### MUTAGENICITY

There is no data available.

#### CARCINOGENICITY

There is no data available.

#### REPRODUCTIVE TOXICITY

There is no data available.

#### TERATOGENICITY

There is no data available.

#### SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE)

There is no data available.

#### SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE)

Product / Ingredient Name	Category	Route of Exposure	Target Organs
Diethylmethylbenzenediamine	Category 2	Not Determined	Pancreas

#### ASPIRATION HAZARD

There is no data available.

#### INFORMATION ON THE LIKELY ROUTES OF EXPOSURE

Dermal contact. Eye contact. Inhalation. Ingestion.

#### POTENTIAL ACUTE HEALTH EFFECTS

Eye Contact	Causes serious eye irritation.
Inhalation	No known significant effects or critical hazards.
Skin Contact	Causes severe burns.
Ingestion	No known significant effects or critical hazards.

#### SYMPTOMS RELATED TO THE PHYSICAL, CHEMICAL AND TOXICOLOGICAL CHARACTERISTICS

Eye Contact	Adverse symptoms may include the following: pain, watering, redness.
Inhalation	No known significant effects or critical hazards.
Skin Contact	Adverse symptoms may include the following: pain or irritation, redness, blistering may occur.
Ingestion	Adverse symptoms may include the following: stomach pains.

#### DELAYED AND IMMEDIATE EFFECTS AND ALSO CHRONIC EFFECTS FROM SHORT AND LONG TERM EXPOSURE

##### SHORT TERM EXPOSURE

Potential Immediate Effects	No known significant effects or critical hazards.
Potential Delayed Effects	No known significant effects or critical hazards.


##### LONG TERM EXPOSURE


Potential Immediate Effects	No known significant effects or critical hazards.
Potential Delayed Effects	No known significant effects or critical hazards.



<b>POTENTIAL CHRONIC HEALTH EFFECTS</b>	
General	May cause damage to organs through prolonged or repeated exposure.
Carcinogenicity	No known significant effects or critical hazards.
Mutagenicity	No known significant effects or critical hazards.
Teratogenicity	No known significant effects or critical hazards.
Developmental Effects	No known significant effects or critical hazards.
Fertility Effects	No known significant effects or critical hazards.
<b>NUMERICAL MEASURES OF TOXICITY - ACUTE TOXICITY ESTIMATES</b>	
Not available.	

<b>SECTION 12: ECOLOGICAL INFORMATION</b>			
<b>TOXICITY</b>			
There is no data available.			
<b>PERSISTENCE AND DEGRADABILITY</b>			
There is no data available.			
<b>BIOACCUMULATIVE POTENTIAL</b>			
Product / Ingredient Name	LogPow	BCF	Potential
Poly[oxy(methyl-1,2-ethanediyl)], $\alpha$ -(2-aminomethylethyl)- $\omega$ -(2-aminomethylethoxy)-)	1.34	-	Low
Diethylmethylbenzenediamine	14.7	2.75	Low
<b>MOBILITY IN SOIL</b>			
Soil/Water Partition Coefficient (Koc)	There is no data available.		
Other Adverse Effects	No known significant effects of critical hazards.		

<b>SECTION 13: DISPOSAL CONSIDERATION</b>	
Disposal Methods	The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

<b>SECTION 14: TRANSPORTATION INFORMATION</b>	
<b>DOT</b>	
UN Number	UN2735
UN Proper Shipping Name	Amines, Liquid, Corrosive, N.O.S. (polypropylene glycol diamine)
Transport Hazard Class(es)	 8
Packing Group	III
Environmental Hazard	No
Additional Information	-
<b>TDG</b>	
UN Number	UN2735
UN Proper Shipping Name	Amines, Liquid, Corrosive, N.O.S. (polypropylene glycol diamine)

Transport Hazard Class(es)	 8
Packing Group	III

Environmental Hazard	No
Additional Information	Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.40 - 2.42 (Class 8), 2.7 (Marine pollutant mark). The marine pollutant mark is not required when transported by road or rail.
<b>IMDG</b>	
UN Number	UN2735
UN Proper Shipping Name	Amines, Liquid, Corrosive, N.O.S. (polypropylene glycol diamine) Marine pollutant (Diethylmethylbenzenediamine)
Transport Hazard Class(es)	 8
Packing Group	III
Environmental Hazard	Yes
Additional Information	The marine pollutant mark is not required when transported in sizes of ≤5 l or ≤5 kg. Emergency schedules (Ems) F-A, S-B.
<b>IATA</b>	
UN Number	UN2735
UN Proper Shipping Name	Amines, Liquid, Corrosive, N.O.S. (polypropylene glycol diamine)
Transport Hazard Class(es)	 8
Packing Group	III
Environmental Hazard	No
Additional Information	The environmentally hazardous substance mark may appear if required by other transportation regulations.
Special Precautions for User	Transport within user's premises: Always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code	Not available

#### SECTION 15: REGULATORY INFORMATION

##### UNITED STATES

U.S. Federal Regulations	TSCA 4(a) final test rules: Diethylmethylbenzenediamine. TSCA 12(b) one-time export: Diethylmethylbenzenediamine. United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	Not listed
Clean Air Act Section 602 Class I Substances	Not listed
Clean Air Act Section 602 Class II Substances	Not listed
DEA List I Chemicals (Precursor Chemicals)	Not listed
DEA List II Chemicals (Essential Chemicals)	Not listed
SARA 302/304	No products were found
SARA 304 RQ	Not applicable

##### SARA 311/312

##### CLASSIFICATION

Immediate (acute) health hazard. Delayed (chronic) health hazard.

##### COMPOSITION / INFORMATION ON INGREDIENTS

Product / Ingredient Name	%	Fire Hazard	Sudden Release	Reactive	Immediate	Delayed
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			of Pressure		(acute) Health Hazard	(chronic) Health Hazard
Poly[oxy(methyl-1,2 ethanediyl)], α-(2-aminomethylethyl)-ω-(2-aminomethylethoxy)-)	60 - 80	No	No	No	Yes	No
Diethylmethylbenzenediamine	8 - 20	No	No	No	Yes	Yes
4,4'-Methylenebis[N-sec-butylaniline]	8 - 20	No	No	No	Yes	No

#### SARA 313

No products were found.

#### STATE REGULATIONS

Massachusetts	None of the components are listed.
New York	None of the components are listed.
New Jersey	None of the components are listed.
Pennsylvania	None of the components are listed.

#### CALIFORNIA PROP. 65

No products were found.

#### CANADA

##### CANADIAN LISTS

Canadian NPRI	None of the components are listed.
CEPA Toxic Substances	None of the components are listed.
Canada Inventory	All components are listed or exempted.

##### INTERNATIONAL LISTS / NATIONAL INVENTORY

Australia	Not determined.
China	All components are listed or exempted.
Europe	Not determined.
Japan	All components are listed or exempted.
Malaysia	Not determined.
New Zealand	All components are listed or exempted.
Philippines	Not determined.
Republic of Korea	All components are listed or exempted.
Taiwan	All components are listed or exempted.

#### SECTION 16: OTHER INFORMATION

Prepared By	Demilec Inc. - Technical Department
Preparation Date (Y/M/D)	2017-1-17
Current Issue Date (Y/M/D)	2017-5-25

Notice to Reader: To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.