

GEOFLO SIDE A SDS VERSION 1 COMPILED JUNE 1, 2015.

## SECTION 1) PRODUCT NAME AND COMPANY INFORMATION

**PRODUCT CODE:** GEOFLOASIDE  
**TRADE NAME:** GeoFlo A SIDE  
**MANUFACTURER:** GeoCHEM Inc. **REVISION DATE:** June 1, 2015  
**ADDRESS:** P.O. Box 143226, Anchorage, AK 99514-3226  
**PHONE NUMBER:** 800-490-5320 **EMERGENCY PHONE:** 206-774-8777  
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**GeoCHEM MANUFACTURING:** 300 E. Shell Road, Ventura, CA 93001, U.S.A.  
**PHONE NUMBER:** 01 805-256-7680 **EMERGENCY PHONE:** 01 805-256-7684  
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**Product/Recommended Uses:** For Further Information, Refer to the Product Technical Data Sheet.

## SECTION 2) HAZARDS IDENTIFICATION

### Classification:

Specific Target Organ Toxicity -  
Single Exposure (Respiratory Tract Irritation) - Category 3

Specific Target Organ Toxicity -  
Repeated Exposure - Category 2

Skin Irritation - Category 2

Eye Irritation - Category 2A

Respiratory Sensitizer (Solid/Liquid) - Category 1

Skin Sensitizer - Category 1

Carcinogenicity - Category 2

Acute toxicity, Oral - Category 5

### Pictograms:



**Signal Word:** Danger

### Hazardous Statements - Health:

H335 - May cause respiratory irritation

H373 - May cause damage to organs through prolonged or repeated exposure.

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H317 - May cause an allergic skin reaction

H351 - Suspected of causing cancer

H303 - May be harmful if swallowed

### Precautionary Statements - General:

P101 - If medical advice is needed, have product container or label at hand.

P102 - Keep out of reach of children.

P103 - Read label before use.

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**SECTION 2) HAZARDS IDENTIFICATION (CONTINUED)**

**Precautionary Statements - Prevention:**

- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 - Use only outdoors or in a well-ventilated area.
- P233 - Keep container tightly closed.
- P260 - Do not breathe dust/fume/gas/mist/vapors/spray.
- P264 - Wash thoroughly after handling.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P284 - <In case of inadequate ventilation> wear respiratory protection.
- P272 - Contaminated work clothing should not be allowed out of the workplace.
- P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.

**Precautionary Statements - Response:**

- P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P312 - Call a POISON CENTER/doctor if you feel unwell.
- P314 - Get Medical advice/attention if you feel unwell.
- P302 + P352 - IF ON SKIN: Wash with plenty of water.
- P321 - Specific treatment (see section 4 on this SDS).
- P332 + P313 - If skin irritation occurs: Get medical advice/attention.
- P362 + P364 - Take off contaminated clothing. And wash it before reuse.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 - If eye irritation persists: Get medical advice/attention.
- P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER/doctor.
- P333 + P313 - If skin irritation or a rash occurs: Get medical advice/attention.
- P308 + P313 - IF exposed or concerned: Get medical advice/attention.

**Precautionary Statements - Storage:**

- P403 + P405 - Store in a well-ventilated place. Store locked up.
- P405 - Store locked up.

**Precautionary Statements - Disposal:**

- P501 - Dispose of contents/ container to an approved waste disposal plant.

**SECTION 3) COMPOSITION / INFORMATION ON INGREDIENTS**

CAS	Chemical Name	% By Weight
0068515-48-0	PHthalate Esters	26% - 48%
0009016-87-9	POLYMETHYLENE POLYPHENYL ISOCYANATE	20% - 38%
0000101-68-8	4,4'-METHYLENEDIPHENYL DIISOCYANATE	15% - 27%
0026447-40-5	MDI (MONOMER)	5% - 8%

**SECTION 4) FIRST AID MEASURES**

**Inhalation:**

Remove source of exposure or move person to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER/doctor. If breathing is difficult, trained personnel should administer emergency oxygen if advised to do so by the POISON CENTER/doctor.

If exposed/feel unwell/concerned: Call a POISON CENTER/doctor.

Eliminate all ignition sources if safe to do so.

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***SECTION 4) FIRST AID MEASURES (CONTINUED)***

**Skin Contact:**

Take off contaminated clothing, shoes and leather goods (e.g. watchbands, belts). Gently blot or brush away excess product. Wash with plenty of lukewarm, gently flowing water for a duration of 15-20 minutes. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before re-use or discard.

IF exposed or concerned: Get medical advice/attention.

**Eye Contact:**

Rinse eyes cautiously with lukewarm, gently flowing water for several minutes, while holding the eyelids open. Remove contact lenses, if present and easy to do. Continue rinsing for 15-20 minutes. Take care not to rinse contaminated water into the unaffected eye or onto the face. If eye irritation persists: Get medical advice/attention.

**Ingestion:**

Rinse mouth. Do NOT induce vomiting. Give 1 or 2 glasses of milk or water to drink and get medical attention/advice.

IF exposed or concerned: Get medical advice/attention.

***SECTION 5) FIRE FIGHTING MEASURES***

**Suitable Extinguishing Media:**

Dry chemical, foam, carbon dioxide is recommended. Water spray is recommended to cool or protect exposed materials or structures. Carbon dioxide can displace oxygen. Use caution when applying carbon dioxide in confined spaces. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam. Sand or earth may be used for small fires only.

**Unsuitable Extinguishing Media:**

If water is used, use very large quantities of cold water. The reaction between water and hot isocyanate may be vigorous.

**Specific Hazards in Case of Fire:**

Excessive pressure or temperature may cause explosive rupture of containers.

Water contamination will produce carbon dioxide. Do not reseal contaminated containers as pressure buildup may rupture them.

**Fire-fighting Procedures:**

Isolate immediate hazard area and keep unauthorized personnel out. Stop spill/release if it can be done safely. Move undamaged containers from immediate hazard area if it can be done safely. Water spray may be useful in minimizing or dispersing vapors and to protect personnel. Water may be ineffective but can be used to cool containers exposed to heat or flame. Caution should be exercised when using water or foam as frothing may occur, especially if sprayed into containers of hot, burning liquid.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

**Special Protective Actions:**

Wear NIOSH approved self-contained breathing apparatus in positive pressure mode with full-face piece. Boots, gloves (neoprene), goggles, and full protective clothing are also required.

Care should always be exercised in dust/mist areas.

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## ***SECTION 6) ACCIDENTAL RELEASE MEASURES***

### **Emergency Procedure:**

ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area).

Do not touch or walk through spilled material.

Isolate hazard area and keep unnecessary people away. Remove all possible sources of ignition in the surrounding area.

Notify authorities if any exposure to the general public or the environment occurs or is likely to occur.

If spilled material is cleaned up using a regulated solvent, the resulting waste mixture may be regulated.

### **Recommended Equipment:**

Positive pressure, full-face piece self-contained breathing apparatus(SCBA), or positive pressure supplied air respirator with escape SCBA (NIOSH approved).

### **Personal Precautions:**

Avoid breathing vapors. Avoid contact with skin, eyes or clothing. Do not touch damaged containers or spilled materials unless wearing appropriate protective clothing.

### **Environmental Precautions:**

Stop spill/release if it can be done safely. Prevent spilled material from entering sewers, storm drains, other unauthorized drainage systems and natural waterways by using sand, earth, or other appropriate barriers.

### **Methods and Materials for Containment and Cleaning up:**

Cover container, but do not seal, and remove from work area. Prepare a decontamination solution of 2.0% liquid detergent and 3-8% concentrated ammonium hydroxide in water (5-10% sodium carbonate may be substituted for the ammonium hydroxide). Follow the precautions on the supplier's safety data sheets.

Treat the spill area with the decontamination solution, using about 10 parts of the solution for each part of the spill, and allow it to react for at least 15 minutes. Carbon dioxide will be evolved, leaving insoluble polyureas. Residues from spill cleanup, even when treated as described may continue to be regulated under provisions of RCRA and require storage and disposal as hazardous waste.

Slowly stir the isocyanate waste into the decontamination solution described above. Let stand for 48 hours, allowing the evolved carbon dioxide to vent away, residues may still be subject to RCRA storage and disposal requirements. Dispose off in compliance with all relevant local, state, and federal laws and regulations regarding treatment.

## ***SECTION 7) HANDLING AND STORAGE***

### **General:**

Wash hands after use.

Do not get in eyes, on skin or on clothing.

Do not breathe vapors or mists.

Use good personal hygiene practices.

Eating, drinking and smoking in work areas is prohibited.

Remove contaminated clothing and protective equipment before entering eating areas.

Eyewash stations and showers should be available in areas where this material is used and stored.

### **Ventilation Requirements:**

Use only with adequate ventilation to control air contaminants to their exposure limits. The use of local ventilation is recommended to control emissions near the source.

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**SECTION 7) HANDLING AND STORAGE (CONTINUED)**

**Storage Room Requirements:**

Keep container(s) tightly closed and properly labeled. Store in cool, dry, well-ventilated areas away from heat, direct sunlight, strong oxidizers and any incompatibilities. Store in approved containers and protect against physical damage. Keep containers securely sealed when not in use. Indoor storage should meet OSHA standards and appropriate fire codes. Containers that have been opened must be carefully resealed to prevent leakage. Empty container retain residue and may be dangerous. Use non-sparking ventilation systems, approved explosion-proof equipment and intrinsically safe electrical systems in areas where this product is used and stored.

Keep liquid and vapors away from sparks and flame, store in containers above ground and surrounded by dikes to contain spills or leaks.

Do not cut, drill, grind, weld, or perform similar operations on or near containers.

**SECTION 8) EXPOSURE CONTROLS / PERSONAL PROTECTION**

**Eye Protection:**

Wear eye protection with side shields or goggles. Wear indirect-vent, impact and splash resistant goggles when working with liquids. If additional protection is needed for entire face, use in combination with a face shield.

**Skin Protection:**

Use of gloves approved to relevant standards made from the following materials may provide suitable chemical protection: PVC, neoprene or nitrile rubber gloves. Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material, glove thickness, dexterity. Always seek advice from glove suppliers. Contaminated gloves should be replaced. Use of an apron and over-boots of chemically impervious materials such as neoprene or nitrile rubber is recommended to avoid skin sensitization. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. Launder soiled clothes or properly disposed of contaminated material, which cannot be decontaminated.

**Respiratory Protection:**

If airborne concentrations exceed or are expected to exceed the TLV, use MSHA/NIOSH approved positive pressure supplied pressure supplied air respiratory with a full face piece or an air supplied hood. For emergencies, use a positive pressure self-contained breathing apparatus. Air purifying (cartridge type) respirators are not approved for protection against isocyanates.

**Appropriate Engineering Controls:**

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Chemical Name	OSHA TWA (ppm)	OSHA TWA (mg/m3)	OSHA STEL (ppm)	OSHA STEL (mg/m3)	OSHA Tables (Z1, Z2, Z3)	OSHA Carcinogen	OSHA Skin designation	NIOSH TWA (ppm)	NIOSH TWA (mg/m3)	NIOSH STEL (ppm)	NIOSH STEL (mg/m3)	NIOSH Carcinogen
4,4'-METHYLENEDIPHENYL DIISOCYANATE	0.02 ceiling	0.2 ceiling			1			0.005	0.050			

Chemical Name	ACGIH TWA (ppm)	ACGIH TWA (mg/m3)	ACGIH STEL (ppm)	ACGIH STEL (mg/m3)
4,4'-METHYLENEDIPHENYL DIISOCYANATE	0.005	0.051		

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## **SECTION 9) PHYSICAL AND CHEMICAL PROPERTIES**

### **Physical and Chemical Properties**

Density	9.25 lb/gal
Specific Gravity	1.11
VOC Regulatory	0.00 lb/gal

VOC Part A & B Combined	N.A.	Upper Explosion Level	N.A.
Appearance	Clear Liquid	Vapor Pressure	N.A.
Odor Threshold	N.A.	Vapor Density	Heavier than air
Odor Description	Mild Aromatic	Freezing Point	N.A.
pH	N.A.	Melting Point	N.A.
Water Solubility	Reacts with Water	Low Boiling Point	150 °C
Flammability	N/A	High Boiling Point	N.A.
Flash Point Symbol	N.A.	Auto Ignition Temp	N.A.
Flash Point	94 °C	Decomposition Pt	N.A.
Viscosity	N.A.	Evaporation Rate	Slower than ether
Lower Explosion Level	N.A.	Coefficient Water/Oil	N.A.

## **SECTION 10) STABILITY AND REACTIVITY**

### **Stability:**

Material is stable at standard temperature and pressure.

### **Conditions to Avoid:**

Heat, high temperature, open flame, sparks, and moisture. Contact with incompatible materials in a closed system will cause liberation of carbon dioxide and buildup of pressure.

### **Hazardous Reactions/Polymerization:**

Will not occur under normal conditions but under high temperatures above 204°C, in the presence of moistures, alkalis, tertiary amines, and metal compounds will accelerate polymerization. Possible evolution of carbon dioxide gas may rupture closed containers.

### **Incompatible Materials:**

This product will react with any material containing active hydrogens, such as water, alcohol, ammonia, amines, alkalis and acids, the reaction with water is slow under 50°C, but is accelerated at higher temperature and in the presence of alkalis, tertiary amines, and metal compounds. Some reactions can be violent. Material can react with strong oxidizing agents.

### **Hazardous Decomposition Products:**

Carbon dioxide, carbon monoxide, nitrogen oxides, trace amounts of hydrogen cyanide and unidentified organic compounds may be formed during combustion.

## **SECTION 11) TOXICOLOGICAL INFORMATION**

### **Skin Corrosion/Irritation:**

Isocyanates react with skin protein and moisture and can cause irritation. Prolonged contact can cause reddening, swelling, rash, scaling, blistering, and, in some cases, skin sensitization. Individuals who have developed a skin sensitization can develop these symptoms as a result of contact with very small amounts of liquid material or as a result of exposure to vapor.

Causes skin irritation





















