



MATERIAL SAFETY DATA SHEET

Idaho Asphalt Supply, Inc.

MSDS #: 1000

DATE REVISED: 09/12/12
SUPERSEDES DATE: any previous

Section 1 Product Identification/Contact Information

Product Identity:

Generic Category: Asphalt Anti-stripping Additive
Product Name(s): **Superbond**
Formula: Trade Secret

Company Address: Idaho Asphalt Supply, Inc.,
P.O. Box 50538
Idaho Falls, ID 83405
PHONE: (208)524-5871

Emergency Telephone: 1-800-424-9300 (Chemtrec)

Product Use: Road Paving and Resurfacing

Section 2 Composition

<u>Ingredients</u>	<u>CAS #</u>	<u>Concentration</u>
Alkylamines Mixture	trade secret	< 60%
Polyalkylene Glycol Mixture	trade secret	< 30%
Polyamines Mixture	trade secret	< 25%

Section 3 Physical & Chemical Properties

Appearance and Odor:	Dark-brown liquid with fishy odor	Flash Point: 130°C (266°F)
Boiling Point:	> 200°C (392°F)	Melting Point: < 0°C (32°F)
Specific Gravity:	0.9 -1.1	pH: > 10 (Basic)
Vapor Pressure:	< 1	Vapor Density: > 1
Evaporation Rate:	< 1 compared with Ether (anhydrous)	Solubility in Water: Very slightly

Section 4 Fire Fighting Measures

Extinguishing Media: CO₂, Class "B" extinguisher, foam
Special Fire Fighting Procedures: Avoid breathing vapors, wear self contained breathing apparatus.
Unusual Fire Explosion Hazards: None
Fire & Explosion Hazards: The product will burn to release carbon oxides (CO, CO₂), nitrogen oxides (NO, NO₂, etc.).

Hazard Rating (NFPA)

Health: 3
Fire: 1
Reactivity: 0
Special: 0

Hazard Rating Scale

0 - Minimal 3 - Serious
1 - Slight 4 - Severe
2 - Moderate

Section 5**Reactivity**

Stable:	Yes
Conditions of reactivity:	Flammable in the presence of open flames, sparks, static discharge and heat. Work upwind of fire
Incompatible Materials:	Avoid contact with the following: acids, aldehydes, ketones, halides, acrylates, oxidizing agents, alkali metals, and epoxides.
Hazardous Polymerization:	Will not occur.

Section 6**Health Hazard Data**

OSHA/HCS Status:	This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
Hazards:	Cause severe respiratory tract and irritation to skin and eyes when brought in contact. May cause allergic skin reaction May be harmful if swallowed Contains material which causes damage to the following organs: Lungs, Digestive system, Respiratory tract, Skin, Eye, Lens or Cornea Contains material which causes damage to the following organs: Kidneys, Liver, Gastrointestinal tract
Primary Route of Exposure:	Ingestion, inhalation, skin and eye contact
Inhalation:	Corrosive to the respiratory system.
Skin:	Corrosive to skin
Ingestion:	Harmful if swallowed
Eye Contact:	May burn and irritate.
Carcinogen:	Not listed by NTP, IARC, ACGIH or OSHA

Section 7**Emergency First Aid Measures**

Inhalation:	Remove to fresh air. Give oxygen or artificial respiration as needed. Obtain medical attention promptly.
Eye Contact:	Flush eyes with low pressure water for at least 15 minutes and obtain medical attention immediately.
Skin Contact:	Flush contaminated skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Thoroughly clean clothing and shoes before reuse. Get medical attention immediately.
Ingestion:	If ingested, do not induce vomiting, call a physician immediately.

Section 8**Exposure Limits/Exposure Controls**

Product Name	Exposure Limits
Diethanolamine	ACGIH TLV (United States, 1/2005). Skin Notes: 1994 – 1995 Adoption TWA: 2 mg/m ³ (0.46 ppm) 8 hour/hours. Form: All forms OSHA PEL 1989 (United States, 3/1989) TWA: 15 mg/m ³ (3 ppm) 8 hour/hours. Form: All forms
Diethylenetriamine	ACGIH TLV (United States, 1/2004). Skin TWA: 4.2 mg/m ³ (1 ppm) 8 hour/hours. Form: All forms OSHA PEL 1989 (United States, 3/1989) TWA: 4 mg/m ³ (1 ppm) 8 hour/hours. Form: All forms
Respiratory Protection:	Avoid breathing vapors in confined spaces. NIOSH approved respirators may be required if exposure limits are exceeded.
Eye Protection:	Use safety glasses, goggles or face shields.
Skin Protection:	Use leather or rubber gloves, coveralls, and impervious footwear.

Section 8**Exposure Limits/Exposure Controls**

Engineering Controls: Use only with adequate ventilation. Local exhaust ventilation may be required to meet exposure standards in confined areas.

Hygiene Measures: Wash hands, forearms and face thoroughly after handling.

Handling Precautions: Storage tanks and trucks must be emptied, cooled, ventilated, and tested for absence of vapors before allowing personnel entry.

Section 9**Accidental Release Measures / Disposal Considerations**

Personal Precautions: Immediately contact emergency personnel. Use suitable protective equipment.

Environmental precautions: Avoid dispersal of spilled material and runoff and contact with soil, waterway, drains and sewers.

Land Spill: Stop release by making earthen dike, prevent flow from entering sewers and water ways. Place spilled material in an appropriate container for disposal.

Waste Disposal: Handle in accordance with federal, state and local regulations.

RCRA classification: Description: Non-hazardous waste

Section 10**Toxicological Information****Toxicity Data**

Product Name	Test	Result	Route	Species
Triethylenetetramine	LD50	2500 mg/kg	Oral	Rat
	LD50	5500 mg/kg	Oral	Rabbit
	LD50	1600 mg/kg	Oral	Mouse
	LD50	805 mg/kg	Skin	Rabbit
Diethanolamine	LD50	2200 mg/kg	Oral	Rabbit
	LD50	3300 mg/kg	Oral	Mouse
Diethylenetriamine	LD50	1080 mg/kg	Oral	Rat
	LD50	1090 mg/kg	Skin	Rabbit
Aminoethylpiperazine	LD50	1500 mg/kg	Oral	Chicken

Target Organ Effects: Contains material which causes damage to the following organs:
Lungs, Digestive system, Respiratory tract, Skin, Eye, Lens or Cornea
Contains material which causes damage to the following organs:
Kidneys, Liver, Gastrointestinal tract

Carcinogenic Effects: No known significant effects or critical hazards

Mutagenic Effects: No known significant effects or critical hazards

Reproductive Toxicity: No known significant effects or critical hazards

Section 11**Ecological Information**

Product Name	Species	Period	Result
Diethanolamine	Pimephales promelas (LC50)	96 hour/hours	100 mg/l
	Daphnia magna (LC50)	96 hour/hours	100 mg/l
	Pimephales promelas (LC50)	96 hour/hours	>100 mg/l
	Daphnia magna (LC50)	96 hour/hours	>100 mg/l
	Pimephales promelas (LC50)	96 hour/hours	1370 mg/l
	Pimephales promelas (LC50)	96 hour/hours	1480 mg/l
Diethylenetriamine	Poecilia reticulata (LC50)	96 hour/hours	1014 mg/l
	Pimephales promelas (LC50)	96 hour/hours	2190 mg/l
Environmental Precautions:	Harmful to aquatic organisms.		

Section 12**Transportation Information****DOT Classification:**

Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s.(Diethanolamine)
UN Number: UN3082
Class: 9
Packing Group: III
Additional Information: RQ for Diethanolamine is 100 lbs. Not regulated for non-bulk shipments

IMDG Classification:

Proper Shipping Name: Environmentally hazardous substances, liquid, n.o.s.(Diethanolamine)
UN Number: UN3082
Class: 9
Packing Group: III
Additional Information: RQ for Diethanolamine is 100 lbs.

Section 13**Handling and Storage**

Handling: Do not ingest. Avoid breathing vapor. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Storage: Keep container tightly closed in a cool, well-ventilated area. Should not be stored at temperature higher than 80°C (176°F) for a long period.

Section 14**Regulatory Information**

HCS Classification: Corrosive Material Sensitizing material Target organ effects

U.S. Federal Regulations:

TSCA: No product were found
 CERCLA: Hazardous Substances: Diethanolamine: 100 lbs (45.36 kg)
 Superfund Amendments and Reauthorization Act of 1986 (SARA) Title III
 Section 302/304: Extremely Hazardous Substances: N/A
 Section 302/304: Emergency Planning and Notification: N/A
 Section 302/304/311/312: Hazardous Chemicals: Triethylenetetramine;
 Aminoethanolamine; Diethanolamine; Diethylenetriamine; Aminoethylpiperazine
 Section 311/312: Chemical Inventory Reporting Requirement:
 Immediate (acute) health hazard, Delayed (chronic) health hazard
 Sudden Release of Pressure, Fire, Reactive
 Section 313: List of Toxic Chemicals:
 Form R – Reporting Requirements

Product Name	CAS Number	Concentration
Diethanolamine	111-42-2	7 – 13%

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Some of the information presented and conclusions drawn herein are from sources other than direct test data on the product itself. The information in this MSDS was obtained from sources which we believe reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness.

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This MSDS was prepared and is to be used only for these products. If the product is used as a component in another product, this MSDS information may not be applicable. This MSDS has been prepared in accordance with the requirements of the OSHA Hazardous Communication Standard (29 CFR 1200)