

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

**Product identifier**

**Product Name** B&B 786 REA

**Other means of identification**

**Product Code** 786REA

**Recommended use of the chemical and restrictions on use**

**Recommended Use** Technical cleaning solvent.  
**Uses advised against** FOR INDUSTRIAL USE ONLY

**Details of the supplier of the safety data sheet**

**Manufacturer Address** Vantage Specialties, Inc.  
 3938 Porett Drive  
 Gurnee, IL 60031 USA  
 847-244-3410

**Emergency Telephone Number**

**Emergency Telephone Number** CHEMTREC US: 1-800-424-9300  
 CHEMTREC International: +1-703-527-3887

## 2. HAZARDS IDENTIFICATION

**Classification**

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Carcinogenicity	Category 2B

**Label Elements**

### EMERGENCY OVERVIEW

**DANGER**

**Hazard statements**

Suspected of causing cancer  
 Causes serious eye damage  
 Causes skin irritation



**Color** pink

**Physical State** Liquid

**Odor** Mild

**Precautionary Statements - Prevention**

Obtain special instructions before use  
 Do not handle until all safety precautions have been read and understood  
 Wear protective gloves/protective clothing/eye protection/face protection  
 Wash face, hands and any exposed skin thoroughly after handling

**Precautionary Statements - Response**

If exposed or concerned: Get medical advice/attention

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 doctor/physician

IF ON SKIN: Rinse exposed skin with plenty of water. If skin irritation occurs: get medical advice/attention.

**Precautionary Statements - Storage**

Store locked up

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with applicable regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Sodium metasilicate	6834-92-0	< 10
Proprietary Surfactant	Proprietary	1-20
Ethoxylated Alcohols Phosphate Ester	68130-47-2	< 10
Diethanolamine	111-42-2	< 0.5

### 4. FIRST AID MEASURES

**FIRST AID MEASURES****General Advice**

If exposed or concerned: Get medical advice/attention.

**Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention immediately.

**Skin contact**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention.

**Inhalation**

IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.

**Ingestion**

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

**Self-protection of the first aider**

Use personal protective equipment.

**Most important symptoms and effects, both acute and delayed****Symptoms**

Irritation or pain in contact with skin or eyes.

**Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically.

### 5. FIRE-FIGHTING MEASURES

**Suitable extinguishing media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

None known.

**Specific hazards arising from the chemical**

None identified.

**Hazardous combustion products**

May emit irritating vapors.

**Explosion Data**

**Sensitivity to Mechanical Impact** None.  
**Sensitivity to Static Discharge** None.

**Protective equipment and precautions for firefighters** As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures**

**Personal Precautions** Use personal protective equipment. Ensure adequate ventilation. Avoid contact with eyes, skin and clothing.

**For emergency responders** Use personal protection recommended in Section 8.

**Environmental precautions**

**Environmental precautions** Prevent release to surface water.

**Methods and material for containment and cleaning up**

**Methods for Containment** Dike to collect large liquid spills.

**Methods for Cleaning Up** Absorb with inert material and transfer to containers for disposal.

**7. HANDLING AND STORAGE**

**Precautions for safe handling**

**Handling** Wear personal protective equipment. Avoid contact with eyes, skin and clothing. Handle in accordance with good industrial hygiene and safety practice.

**Conditions for safe storage, including any incompatibilities**

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up.

**Incompatible materials** Strong oxidizing agents.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Diethanolamine 111-42-2	TWA: 1 mg/m <sup>3</sup>	n/a	TWA: 3 ppm TWA: 15 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Measures** Safety Shower  
 Eyewash station  
 Ventilation system.

**Individual protection measures, such as personal protective equipment**

**Eye/Face Protection** Safety glasses with side-shields.

**Skin and Body Protection** Wear protective gloves/clothing.

**Respiratory Protection** In case of inadequate ventilation wear respiratory protection.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

<b>Physical State</b>	Liquid	<b>Odor</b>	Mild
<b>Appearance</b>	Clear to slightly hazy	<b>Odor threshold</b>	Not determined
<b>Color</b>	pink		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	11.0-12.5	Neat
Melting point / freezing point		Not determined
Boiling point / boiling range		Not determined
Flash Point		Not determined
Evaporation Rate		Not determined
Flammability (solid, gas)		Not Applicable
Flammability Limit in Air		Not determined
Upper flammability limit		
Lower Flammability Limit		
Vapor pressure		Not determined
Vapor Density		Not determined
Specific Gravity	1.07	@ 25°C
Water Solubility	Soluble	
Solubility in other solvents		Not determined
Partition coefficient		Not Applicable
Autoignition Temperature		Not determined
Decomposition temperature		Not determined
Kinematic viscosity		Not determined
Dynamic viscosity		Not determined
Explosive Properties	None	
Oxidizing Properties	None	

### Other Information

## 10. STABILITY AND REACTIVITY

<u>Reactivity</u>	Not reactive
Remarks	
<u>Chemical stability</u>	Stable under recommended storage conditions.
<u>Possibility of Hazardous Reactions</u>	
Hazardous Reactions	None under normal processing.
Hazardous Polymerization	Hazardous polymerization does not occur.
<u>Conditions to Avoid</u>	Extremes of temperature and direct sunlight
<u>Incompatible materials</u>	Strong oxidizing agents.

Hazardous Decomposition Products  
Thermal decomposition may yield oxides of carbon and nitrogen.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	May be harmful if inhaled.
<b>Eye contact</b>	Irritating to eyes.
<b>Skin contact</b>	Irritating to skin.
<b>Ingestion</b>	May cause discomfort.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Sodium metasilicate 6834-92-0	= 1153 mg/kg ( Rat )	-	-
Proprietary Surfactant	> 5,000 mg/kg b.w. (Rat)	-	-
Diethanolamine 111-42-2	1,600 mg/kg ( Rat )	= 11.9 mL/kg ( Rabbit ) = 7640 µL/kg ( Rabbit )	-

**Information on toxicological effects**

**Symptoms** Irritation or pain in contact with skin or eyes.

**Delayed and immediate effects as well as chronic effects from short and long-term exposure**

**Skin corrosion/irritation** Irritating to skin.  
**Serious eye damage/eye irritation** Irritating to eyes.  
**Sensitization** No known hazard.  
**Mutagenic Effects** No known hazard.  
**Carcinogenicity** Diethanolamine (CAS 111-42-2) is classified as 'Possibly Carcinogenic to Humans' by IARC (International Agency for Research on Cancer).

Chemical Name	ACGIH	IARC	NTP	OSHA
Diethanolamine 111-42-2		Group 2B		X

**Reproductive Toxicity** No known hazard.

**Developmental Toxicity** No known hazard.  
**Teratogenic** No known hazard.  
**STOT - single exposure** No known hazard.

**STOT - repeated exposure** No known hazard.  
**Aspiration hazard** No known hazard.

**Numerical measures of toxicity-Product Information** Not determined

**12. ECOLOGICAL INFORMATION****Ecotoxicity**

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
Sodium metasilicate 6834-92-0		LC50= 210 mg/L Brachydanio rerio 96 h		EC50 = 216 mg/L 96 h
Proprietary Surfactant				LC50: >100 mg/l 48h
Diethanolamine 111-42-2	EC50 2.1 - 2.3 mg/L 96 h EC50 = 7.8 mg/L 72 h	LC50 4460 - 4980 mg/L Pimephales promelas 96 h LC50 1200 - 1580 mg/L Pimephales promelas 96 h LC50 600 - 1000 mg/L Lepomis macrochirus 96 h	EC50 = 73 mg/L 5 min EC50 > 16 mg/L 16 h	EC50 = 55 mg/L 48 h

**Persistence and degradability**

No data available.

**Bioaccumulation/Accumulation**

Not determined

**Mobility**

No data available.

Chemical Name	Partition coefficient
Diethanolamine 111-42-2	= -2.18 25 °C

**Other Adverse Effects** None identified**13. DISPOSAL CONSIDERATIONS****Waste treatment methods****Waste Disposal Method** Dispose of in accordance with applicable regulations.**Contaminated Packaging** Dispose of in accordance with applicable regulations.

This product contains one or more substances that are listed with the State of California as a hazardous waste.

**14. TRANSPORT INFORMATION****DOT** Not regulated**IMDG / IMO** Not regulated**15. REGULATORY INFORMATION****International Inventories**

**TSCA** Complies  
**DSL** Complies

**Legend**

*TSCA - United States Toxic Substances Control Act Section 8(b) Inventory*  
*DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List*  
*EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances*  
*ENCS - Japan Existing and New Chemical Substances*  
*IECSC - China Inventory of Existing Chemical Substances*  
*KECL - Korean Existing and Evaluated Chemical Substances*  
*PICCS - Philippines Inventory of Chemicals and Chemical Substances*  
*AICS - Australian Inventory of Chemical Substances*

**U.S. Federal Regulations****SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Diethanolamine - 111-42-2	111-42-2	< 0.5	1.0

**SARA 311/312 Hazard Categories**

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

**Clean Water Act**

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

**CERCLA**

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302)

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Diethanolamine 111-42-2	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

**U.S. State Regulations**

**California Proposition 65**

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
Diethanolamine - 111-42-2	Carcinogen

**U.S. State Right-to-Know Regulations**

This product contains the following right to know chemicals:

Chemical Name	New Jersey	Massachusetts	Pennsylvania
Diethanolamine 111-42-2	X	X	X

**16. OTHER INFORMATION**

<b>NFPA</b>	Health Hazard 1	Flammability 1	Instability 0	Physical and Chemical Hazards n/a
<b>HMIS</b>	Health Hazard 1	Flammability 1	Physical hazards 0	Personal Precautions B

Prepared by Product Steward  
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**Disclaimer**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

**End of Safety Data Sheet**