

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

**Product identifier**

**Product Name** B&B 1986S

**Other means of identification**

**Product Code** 1986S

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

## 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**

Causes serious eye damage  
 Causes skin irritation  
 Suspected of causing cancer



**Color** Green

**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  
 Do not eat, drink or smoke when using this product

**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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower

If skin irritation occurs: Get medical advice/attention

Wash contaminated clothing before reuse

**Precautionary Statements - Storage**

Store locked up

Keep container tightly closed

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with applicable regulations.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Coconut diethanolamide	68603-42-9	1-15
Naphtha (petroleum), Heavy, Aromatic	64742-94-5	1-15
4-Nonylphenol, branched, ethoxylated	127087-87-0	1-15
Diethanolamine	111-42-2	<1%
Naphthalene	91-20-3	<0.5%

### 4. FIRST AID MEASURES

**FIRST AID MEASURES****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 (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. If skin irritation occurs, get medical advice/attention. Wash contaminated clothing before reuse.

**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. If symptoms persist, call a physician.

**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**

Dry chemical. Foam. Carbon dioxide. Water. Class ABC/BC fire extinguisher.

**Unsuitable extinguishing media**

Do not use a solid water stream as it may scatter and spread fire.

**Specific hazards arising from the chemical**

Thermal decomposition can lead to release of irritating gases and

vapors.

**Hazardous combustion products**

Carbon oxides.

**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. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.

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

**Storage**

Store locked up. Keep container tightly closed in a dry and well-ventilated place.

**Incompatible materials**

Strong oxidizing agents. Strong acids.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

**Control parameters**

**Exposure Guidelines**

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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>
Naphthalene 91-20-3	TWA: 10 ppm	50 mg/m <sup>3</sup> (10 ppm)	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m <sup>3</sup> STEL: 15 ppm STEL: 75 mg/m <sup>3</sup>

**Appropriate engineering controls**

**Engineering Measures**

Safety Shower

Eyewash station  
Ventilation system.

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

<b>Eye/Face Protection</b>	Safety glasses with side-shields.
<b>Skin and Body Protection</b>	Wear protective gloves/clothing.
<b>Respiratory Protection</b>	If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn.

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>	Green		

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	10.0-11.0	Neat
Melting point / freezing point		Not determined
Boiling point / boiling range	> 100 °C	
Flash Point		None to boiling point
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	0.99	
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

VOC content No data available

## 10. STABILITY AND REACTIVITY

Reactivity Not reactive  
Remarks

Chemical stability Stable under recommended storage conditions.

#### Possibility of Hazardous Reactions

**Hazardous Reactions** None under normal processing.  
**Hazardous Polymerization** Hazardous polymerization does not occur.

Conditions to Avoid Excessive heat and freezing.

**Incompatible materials** Strong oxidizing agents. Strong acids.

**Hazardous Decomposition Products**

None identified.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure**

**Product Information**

**Inhalation** No known hazard.

**Eye contact** May cause irreversible damage to eyes.

**Skin contact** Irritating to skin.

**Ingestion** Ingestion may cause stomach discomfort.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Coconut diethanolamide 68603-42-9	No data	> 2 g/kg ( Rabbit )	-
Naphtha (petroleum), Heavy, Aromatic 64742-94-5	> 5000 mg/kg (rat)	> 2 mL/kg ( Rabbit )	> 590 mg/m <sup>3</sup> ( Rat ) 4 h
4-Nonylphenol, branched, ethoxylated 127087-87-0	> 2000 mg/kg (similar substance)	-	-
Diethanolamine 111-42-2	1,600 mg/kg ( Rat )	= 11.9 mL/kg ( Rabbit ) = 7640 µL/kg ( Rabbit )	-
Naphthalene 91-20-3	= 1110 mg/kg ( Rat ) = 490 mg/kg Rat )	(= 1120 mg/kg ( Rabbit ) > 20 g/kg ( Rabbit )	> 340 mg/m <sup>3</sup> ( Rat ) 1 h

**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** Redness, pain, swelling.

**Sensitization** No known hazard.

**Mutagenic Effects** No known hazard.

**Carcinogenicity** This product contains one or more substances which are classified by IARC as probably carcinogenic to humans (Group 2A) or possibly carcinogenic to humans (Group 2B).

Chemical Name	ACGIH	IARC	NTP	OSHA
Coconut diethanolamide 68603-42-9		Group 2B		X
Diethanolamine 111-42-2		Group 2B		X
Naphthalene 91-20-3		Group 2B	RAHC - Reasonably anticipated to be a Human Carcinogen	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)
Coconut diethanolamide 68603-42-9		LC50= 3.6 mg/L Brachydanio rerio 96 h	EC50 = 6000 mg/L 16 h	EC50 = 5.4 mg/L 24 h
Naphtha (petroleum), Heavy, Aromatic 64742-94-5	EC50 = 2.5 mg/L 72 h	LC50= 1740 mg/L Lepomis macrochirus 96 h LC50= 41 mg/L Pimephales promelas 96 h LC50= 19 mg/L Pimephales promelas 96 h LC50= 2.34 mg/L Oncorhynchus mykiss 96 h LC50= 45 mg/L Pimephales promelas 96 h		LC50: 1 - 10 mg/l
4-Nonylphenol, branched, ethoxylated 127087-87-0				LC50: >100 mg/l
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
Naphthalene 91-20-3	EC50 = 0.4 mg/L 72 h	LC50= 1.99 mg/L Pimephales promelas 96 h LC50 0.91 - 2.82 mg/L Oncorhynchus mykiss 96 h LC50 5.74 - 6.44 mg/L Pimephales promelas 96 h LC50= 31.0265 mg/L Lepomis macrochirus 96 h LC50= 1.6 mg/L Oncorhynchus mykiss 96 h		

### Persistence and degradability

No data available.

### Bioaccumulation/Accumulation

Not determined

### Mobility

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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.

Chemical Name	RCRA - Halogenated	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes

	Organic Compounds			
Naphthalene 91-20-3			Toxic waste waste number F025 Waste description: Condensed light ends, spent filters and filter aids, and spent desiccant wastes from the production of certain chlorinated aliphatic hydrocarbons, by free radical catalyzed processes. These chlorinated aliphatic hydrocarbons are those having carbon chain lengths ranging from one to and including five, with varying amounts and positions of chlorine substitution.	

#### 14. TRANSPORT INFORMATION

**DOT** Not regulated

**IATA** Not regulated

**IMDG / IMO** Not regulated

#### 15. REGULATORY INFORMATION

##### International Inventories

**TSCA** Complies  
**DSL** Complies  
**IECSC** Complies  
**KECL** Complies  
**PICCS** Complies  
**AICS** 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**

This product contains chemicals that may be present at levels which make it subject to reporting under SARA section 313:

Chemical Name	CAS No.	Weight-%	SARA 313 - Threshold Values %
Diethanolamine - 111-42-2	111-42-2	<1%	1.0
Naphthalene - 91-20-3	91-20-3	<0.5%	RQ - 100 lbs

##### **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
Naphthalene 91-20-3	100 lb 1 lb		RQ - 100 lbs.

**U.S. State Regulations**

Chemical Name	California Prop. 65
Coconut diethanolamide - 68603-42-9	Carcinogen
Diethanolamine - 111-42-2	Carcinogen
Naphthalene - 91-20-3	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
Naphthalene 91-20-3	X	X	X

**16. OTHER INFORMATION**

**NFPA** Health Hazard 2 Flammability 1 Instability 0 Physical and Chemical Hazards n/a  
**HMIS** Health Hazard 2 Flammability 1 Physical hazards 0 Personal Precautions B

Prepared by Regulatory Specialist  
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 Reason for Revision Initial Issue

**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**