

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

**Product identifier**

**Product Name** B&B 3100

**Other means of identification**

**Product Code** 3100

**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 2A
Carcinogenicity	Category 2B
Specific target organ toxicity (single exposure)	Category 3
Aspiration toxicity	Category 1
Flammable Liquid	Category 4

**Label Elements**

### EMERGENCY OVERVIEW

**DANGER**

**Hazard statements**

Suspected of causing cancer  
 May be fatal if swallowed and enters airways  
 Causes serious eye irritation  
 Causes skin irritation  
 May cause drowsiness or dizziness  
 Combustible liquid



**Color** Brown

**Physical State** Liquid

**Odor** Solvent

**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  
 Keep away from flames and hot surfaces. — No smoking.  
 Avoid breathing vapors/mist.  
 Use only outdoors or in a well ventilated area

**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  
 If eye irritation persists: Get medical advice/attention  
 IF ON SKIN: Wash with plenty of water and soap  
 If skin irritation occurs: Get medical advice/attention  
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing  
 Call a POISON CENTER or doctor/physican if you feel unwell  
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician  
 Do NOT induce vomiting  
 INCASE OF FIRE USE: dry chemical. foam. carbon dioxide. water spray, or class ABC fire extinguisher.

**Precautionary Statements - Storage**

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

**Precautionary Statements - Disposal**

Dispose of contents/container in accordance with applicable regulations.

**Other hazards**

- Toxic to aquatic life with long lasting effects

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No.	Weight-%
Naphtha (petroleum), Heavy, Aromatic	64742-94-5	25-50
Hexylene glycol	107-41-5	5-25
4-Nonylphenol, branched, ethoxylated	127087-87-0	1 - 5
Naphthalene	91-20-3	< 5
2-Butoxyethanol	111-76-2	1 - 5
1,2,4 - Trimethylbenzene	95-63-6	< 1

### 4. FIRST AID MEASURES

**FIRST AID MEASURES**

<b>General Advice</b>	If exposed or concerned: Get medical advice/attention.
<b>Eye contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists, consult a physician.
<b>Skin contact</b>	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Wash contaminated clothing before re-use.
<b>Inhalation</b>	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell.
<b>Ingestion</b>	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. 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. Difficulty breathing.

**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 may yield CO and/or CO<sub>2</sub>. Avoid breathing vapours, mist or gas. Keep product and empty container away from heat and sources of ignition.

**Hazardous combustion products** Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact**

**Sensitivity to Static Discharge**

None.

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. Avoid contact with eyes, skin and clothing. Ensure adequate ventilation. Wash hands before eating, drinking, smoking or using toilet. Wash contaminated clothing before reuse.

**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.

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

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

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Hexylene glycol 107-41-5	STEL: 50 ppm vapor fraction STEL: 10 mg/m <sup>3</sup> inhalable particulate matter, aerosol only TWA: 25 ppm	n/a	Ceiling: 25 ppm Ceiling: 125 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>
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m <sup>3</sup>	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m <sup>3</sup>
1,2,4 - Trimethylbenzene 95-63-6	n/a	n/a	TWA: 25 ppm TWA: 125 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** 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>Color</b>	Brown
<b>Odor</b>	Solvent		
<b>Odor threshold</b>	Not determined		
<b>Property</b>	<b>Values</b>	<b>Remarks • Method</b>	
<b>pH</b>		Not determined	
<b>Melting point / freezing point</b>		Not determined	
<b>Boiling point / boiling range</b>	> 100 °C		
<b>Flash Point</b>	66.1 °C / 151 °F	Pensky-Martens closed cup ASTM D 93	
<b>Evaporation Rate</b>		Not determined	
<b>Flammability (solid, gas)</b>		Not Applicable	
<b>Flammability Limit in Air</b>		Not determined	
<b>Upper flammability limit</b>			
<b>Lower Flammability Limit</b>			
<b>Vapor pressure</b>	0.6 mm Hg	(estimated)	
<b>Vapor Density</b>		Not determined	
<b>Specific Gravity</b>	0.95		
<b>Water Solubility</b>	Dispersible		

<b>Solubility in other solvents</b>	Not determined
<b>Partition coefficient</b>	Not Applicable
<b>Autoignition Temperature</b>	Not determined
<b>Decomposition temperature</b>	Not determined
<b>Kinematic viscosity</b>	Not determined
<b>Dynamic viscosity</b>	Not determined
<b>Explosive Properties</b>	None
<b>Oxidizing Properties</b>	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** Keep away from open flames, hot surfaces and sources of ignition.

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

**Hazardous Decomposition Products**

Thermal decomposition may yield CO and/or CO<sub>2</sub>.

## 11. TOXICOLOGICAL INFORMATION

**Information on likely routes of exposure****Product Information**

**Inhalation** May cause drowsiness and dizziness.  
**Eye contact** Causes serious eye irritation.  
**Skin contact** Irritating to skin.  
**Ingestion** Potential for aspiration if swallowed.

**Component Information**

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Naphtha (petroleum), Heavy, Aromatic 64742-94-5	> 5000 mg/kg (rat)	> 2 mL/kg ( Rabbit )	> 590 mg/m <sup>3</sup> ( Rat ) 4 h
Hexylene glycol 107-41-5	= 3700 mg/kg ( Rat )	12,3000 mg/kg ( Rabbit )	> 310 mg/m <sup>3</sup> ( Rat ) 1 h
4-Nonylphenol, branched, ethoxylated 127087-87-0	> 2000 mg/kg (similar substance)	-	-
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
2-Butoxyethanol 111-76-2	= 470 mg/kg ( Rat )	220 mg/kg ( Rabbit ) 2270 mg/kg ( Rat )	= 450 ppm ( Rat ) 4 h = 486 ppm ( Rat ) 4 h
1,2,4 - Trimethylbenzene 95-63-6	= 3280 mg/kg ( Rat )	> 3160 mg/kg ( Rabbit )	= 18 g/m <sup>3</sup> ( Rat ) 4 h

**Information on toxicological effects**

**Symptoms** Irritation or pain in contact with skin or eyes. Inhalation of vapors may cause dizziness and drowsiness.

**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** Causes serious eye irritation.  
**Sensitization** No known hazard.  
**Mutagenic Effects** Based on available data, the classification criteria are not met.  
**Carcinogenicity** .

Chemical Name	ACGIH	IARC	NTP	OSHA
Naphthalene 91-20-3		Group 2B	RAHC - Reasonably anticipated to be a Human Carcinogen	X

**Reproductive Toxicity** Not classified as a reproductive toxin.  
**Developmental Toxicity** Not classified as a developmental toxin.  
**Teratogenic** No known hazard.  
**STOT - single exposure** Inhalation of vapors may cause dizziness and drowsiness.  
**Aspiration hazard** May be fatal if swallowed and enters airways.  
**Numerical measures of toxicity-Product Information** Not determined

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

Toxic to aquatic life with long lasting effects

Chemical Name	Toxicity to Algae	Toxicity to Fish	Microtox	Daphnia Magna (Water Flea)
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
Hexylene glycol 107-41-5		LC50= 10700 mg/L Pimephales promelas 96 h LC50 10500 - 11000 mg/L Pimephales promelas 96 h LC50= 10000 mg/L Lepomis macrochirus 96 h LC50= 8690 mg/L Pimephales promelas 96 h	EC50 = 3038 mg/L 5 min	EC50 = 3200 mg/L 48 h
4-Nonylphenol, branched, ethoxylated 127087-87-0				LC50: >100 mg/l
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		

2-Butoxyethanol 111-76-2		LC50= 1490 mg/L Lepomis macrochirus 96 h LC50= 2950 mg/L Lepomis macrochirus 96 h		LC50 1698 - 1940 mg/L 24 h EC50 = 1720 mg/L 24 h
1,2,4 - Trimethylbenzene 95-63-6		LC50 7.19 - 8.28 mg/L Pimephales promelas 96 h		

**Persistence and degradability**

No data available.

**Bioaccumulation/Accumulation**

May cause long lasting harmful effects to aquatic life.

**Mobility**

Not determined.

Chemical Name	Partition coefficient
Hexylene glycol 107-41-5	< 0.14
2-Butoxyethanol 111-76-2	= 0.81 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.

**14. TRANSPORT INFORMATION**

**DOT**

Exempt from regulation by US DOT when shipped solely by land in the USA in containers less than 119 gallons, refer to 49 CFR 173.150(f).

**IATA**

Not regulated in containers less than 5 Liters capacity (IATA, SP A197)

**UN-No** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s. (Naphthalene)  
**Hazard Class** 9  
**Packing Group** III  
**Special Provisions** A197

**IMDG / IMO**

Not regulated in containers less than 5 Liters capacity (IMDG 2.10.2.7)

**UN-No** UN3082  
**Proper Shipping Name** Environmentally hazardous substance, liquid, n.o.s. (Naphthalene)  
**Hazard Class** 9  
**Packing Group** III  
**Marine Pollutant** Yes

## 15. REGULATORY INFORMATION

### International Inventories

<b>TSCA</b>	Complies
<b>DSL</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>KECL</b>	Complies
<b>PICCS</b>	Complies
<b>AICS</b>	Complies

### Legend

TSCA - *United States Toxic Substances Control Act Section 8(b) Inventory*  
 DSL/NDSL - *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 %
Naphthalene - 91-20-3	91-20-3	< 5	RQ - 100 lbs
2-Butoxyethanol - 111-76-2	111-76-2	1 - 5	1.0

#### SARA 311/312 Hazard Categories

<b>Acute health hazard</b>	Yes
<b>Chronic Health Hazard</b>	No
<b>Fire hazard</b>	Yes
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	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
Naphthalene 91-20-3	100 lb 1 lb		RQ - 100 lbs.

### U.S. State Regulations

Chemical Name	California Prop. 65
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
Hexylene glycol 107-41-5	X	X	X
Naphthalene 91-20-3	X	X	X
2-Butoxyethanol	X	X	X



111-76-2			
1,2,4 - Trimethylbenzene 95-63-6	X	X	X
<b>16. OTHER INFORMATION</b>			

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

Prepared by Regulatory Specialist  
 Issuing Date 28-Dec-2020  
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 Revision Note  
 Reason for Revision Update to section 14

**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**