

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

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. If eye irritation persists, consult a physician.
Skin contact	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: get medical advice/attention. Wash contaminated clothing before re-use.
Inhalation	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.
Ingestion	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 CO₂. 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

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. 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 ³ inhalable particulate matter, aerosol only TWA: 25 ppm	n/a	Ceiling: 25 ppm Ceiling: 125 mg/m ³
Naphthalene 91-20-3	TWA: 10 ppm	50 mg/m ³ (10 ppm)	IDLH: 250 ppm TWA: 10 ppm TWA: 50 mg/m ³ STEL: 15 ppm STEL: 75 mg/m ³
2-Butoxyethanol 111-76-2	TWA: 20 ppm	TWA: 50 ppm TWA: 240 mg/m ³	IDLH: 700 ppm TWA: 5 ppm TWA: 24 mg/m ³
1,2,4 - Trimethylbenzene 95-63-6	n/a	n/a	TWA: 25 ppm TWA: 125 mg/m ³

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

Physical State	Liquid	Color	Brown
Odor	Solvent		
Odor threshold	Not determined		
Property	Values	Remarks • Method	
pH		Not determined	
Melting point / freezing point		Not determined	
Boiling point / boiling range	> 100 °C		
Flash Point	66.1 °C / 151 °F	Pensky-Martens closed cup ASTM D 93	
Evaporation Rate		Not determined	
Flammability (solid, gas)		Not Applicable	
Flammability Limit in Air		Not determined	
Upper flammability limit			
Lower Flammability Limit			
Vapor pressure	0.6 mm Hg	(estimated)	
Vapor Density		Not determined	
Specific Gravity	0.95		
Water Solubility	Dispersible		

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 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 CO₂.

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 ³ (Rat) 4 h
Hexylene glycol 107-41-5	= 3700 mg/kg (Rat)	12,3000 mg/kg (Rabbit)	> 310 mg/m ³ (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 ³ (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 ³ (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

TSCA	Complies
DSL	Complies
ENCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	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

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
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
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
16. OTHER INFORMATION			

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

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

Disclaimer
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End of Safety Data Sheet