

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

Product identifier

Product Name B&B 9201

Other means of identification

Product Code 9201
UN-No UN3267

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

2. HAZARDS IDENTIFICATION

Classification

| | |
|--|-------------|
| Acute toxicity - Oral | Category 4 |
| Acute toxicity - Dermal | Category 4 |
| Skin corrosion/irritation | Category 1B |
| Serious eye damage/eye irritation | Category 1 |
| Carcinogenicity | Category 2B |
| Specific target organ toxicity (single exposure) | Category 3 |
| Specific target organ toxicity (repeated exposure) | Category 2 |
| Aspiration toxicity | Category 1 |

Label Elements

EMERGENCY OVERVIEW

DANGER

Hazard statements

Suspected of causing cancer
 Causes severe skin burns and eye damage
 May be fatal if swallowed and enters airways
 Harmful if swallowed
 Harmful in contact with skin
 May cause drowsiness or dizziness
 May cause damage to organs (liver, kidney) through prolonged or repeated exposure.



Color Pale yellow**Physical State** 2-Phase 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
 Avoid breathing vapors/mist.
 Use only outdoors or in a well ventilated area
 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
 Immediately call a POISON CENTER or doctor/physician
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Call a POISON CENTER or doctor/physician if you feel unwell
 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
 Do NOT induce vomiting

Precautionary Statements - Storage

Store locked up
 Store in a well-ventilated place

Precautionary Statements - Disposal

Dispose of contents/container in accordance with applicable regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No. | Weight-% |
|------------------|------------|----------|
| Benzyl alcohol | 100-51-6 | 60-80 |
| Mineral seal oil | 64742-46-7 | 1-15 |
| Diethanolamine | 111-42-2 | 1-15 |
| 2-Aminoethanol | 141-43-5 | 1-15 |

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. Immediately call a POISON CENTER or doctor/physician. Wash contaminated clothing before reuse. |
| 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. Headache/dizziness.

Indication of any immediate medical attention and special treatment needed

Notes to Physician Treat symptomatically.

5. FIRE-FIGHTING MEASURES

| | |
|---|--|
| <u>Suitable extinguishing media</u> | 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. |
| <u>Specific hazards arising from the chemical</u> | Thermal decomposition may yield oxides of carbon and nitrogen. Avoid breathing dust/fume/gas/mist/vapours/sprays. |
| Hazardous combustion products | Carbon oxides. |
| <u>Explosion Data</u> | |
| Sensitivity to Mechanical Impact | None. |
| Sensitivity to Static Discharge | None. |
| <u>Protective equipment and precautions for firefighters</u> | 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. Avoid inhalation of vapors.

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 Manufacturer recommended exposure limit (8-hour TWA) for CAS 64742-48-9: 171 ppm, 1200 mg/m³.

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|--------------------------------|---------------------------|--|---|
| Mineral seal oil 64742-46-7 | n/a | 5 ppm (oil mist) | n/a |
| Diethanolamine 111-42-2 | TWA: 1 mg/m ³ | n/a | TWA: 3 ppm TWA: 15 mg/m ³ |
| 2-Aminoethanol 141-43-5 | STEL: 6 ppm TWA: 3 ppm | TWA: 3 ppm TWA: 6 mg/m ³ | IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m ³ STEL: 6 ppm STEL: 15 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 | 2-Phase Liquid | Color | Pale yellow |
| Odor | solvent | | |
| Odor threshold | Not determined | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|--------------------------------|-------------------|-------------------------|
| pH | | Not determined |
| Melting point / freezing point | | Not determined |
| Boiling point / boiling range | > 100 °C | |
| 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 | < 0.2 | mm Hg@ 20 °C |
| Vapor Density | >1 | (air = 1) |
| Specific Gravity | 1.04 | |
| Water Solubility | Partially 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

Thermal decomposition may yield oxides of carbon and nitrogen.

11. TOXICOLOGICAL INFORMATION

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

Inhalation May cause drowsiness and dizziness.
Eye contact May cause irreversible damage to eyes.
Skin contact Causes severe skin burns and eye damage.
Ingestion Potential for aspiration if swallowed.

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--------------------------------|----------------------|-------------------------|---------------------------|
| Benzyl alcohol 100-51-6 | = 1230 mg/kg (Rat) | = 2 g/kg (Rabbit) | = 8.8 mg/L (Rat) 4 h |
| Mineral seal oil 64742-46-7 | = 7400 mg/kg (Rat) | > 2000 mg/kg (Rabbit) | = 4.6 mg/L (Rat) 4 h |
| Diethanolamine 111-42-2 | 1,600 mg/kg (Rat) | = 7640 µL/kg (Rabbit) | - |
| 2-Aminoethanol 141-43-5 | 1720 mg/kg (Rat) | 1025 mg/kg (Rabbit) | > 1.3 mg/l (IRT) 6h (rat) |

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 Swelling and pain.
Serious eye damage/eye irritation Redness, pain, swelling.
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 Inhalation of vapors may cause dizziness and drowsiness.

STOT - repeated exposure May cause damage to organs (liver, kidney) through prolonged or repeated exposure.
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 organisms

| Chemical Name | Toxicity to Algae | Toxicity to Fish | Microtox | Daphnia Magna (Water Flea) |
|--------------------------------|--|--|---|----------------------------|
| Benzyl alcohol 100-51-6 | EC50 = 35 mg/L 3 h | LC50= 460 mg/L Pimephales promelas 96 h LC50= 10 mg/L Lepomis macrochirus 96 h | | |
| Mineral seal oil 64742-46-7 | | LC50= 35 mg/L Pimephales promelas 96 h LC50> 10000 mg/L Pimephales promelas 96 h | | |
| Diethanolamine 111-42-2 | EC50 = 7.8 mg/L 72 h EC50 2.1 - 2.3 mg/L 96 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 |
| 2-Aminoethanol 141-43-5 | EC50 = 15 mg/L 72 h | LC50 300 - 1000 mg/L Lepomis macrochirus 96 h LC50= 227 mg/L Pimephales promelas 96 h LC50 114 - 196 mg/L Oncorhynchus mykiss 96 h LC50= 3684 mg/L Brachydanio rerio 96 h LC50> 200 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. |

14. TRANSPORT INFORMATION

DOT

UN-No UN3267
Proper Shipping Name Corrosive liquid, basic, organic, n.o.s. (Ethanolamines)
Hazard Class 8
Packing Group III

UN-No UN3267
Proper Shipping Name Corrosive liquid, basic, organic, n.o.s. (Ethanolamines)
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UN-No UN3267
Proper Shipping Name Corrosive liquid, basic, organic, n.o.s. (Ethanolamines)
Hazard Class 8
Packing Group III

15. REGULATORY INFORMATION

International Inventories

TSCA Complies
DSL Complies
ENCS Complies
IECSC Complies
KECL Not determined
PICCS Not determined
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 | 1-15 | 1.0 |

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic Health Hazard Yes
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

| 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 |
|----------------------------|------------|---------------|--------------|
| Benzyl alcohol 100-51-6 | | X | X |
| Diethanolamine 111-42-2 | X | X | X |
| 2-Aminoethanol 141-43-5 | X | X | X |

16. OTHER INFORMATION

| | | | | |
|-------------|------------------------|-----------------------|---------------------------|--|
| NFPA | Health Hazard 3 | Flammability 1 | Instability 0 | Physical and Chemical Hazards n/a |
| HMIS | Health Hazard 3 | Flammability 1 | Physical hazards 0 | Personal Precautions B |

| | |
|----------------------------|-----------------|
| Prepared by | Product Steward |
| Issuing Date | 28-Jun-2018 |
| Revision Date | 28-Jun-2018 |
| Revision Note | |
| 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