

Safety Data Sheet

Issue Date: 04-Feb-2014

Revision Date: 07-Apr-2014

Version 1

1. IDENTIFICATION

Product Identifier

Product Name BUG REMOVER AND BUG REMOVER *2X*

Other means of identification

SDS # DSI-024

Product Code BUG REMOVER PRODUCT CODES: 3232, 3235, 32315, 32330, 32355
BUG REMOVER *2X* PRODUCT CODES: D191, D192, D193, D197, D199

UN/ID No UN3267

Recommended use of the chemical and restrictions on use

Recommended Use Automotive Care Products. Bug remover.

Details of the supplier of the safety data sheet

Supplier Address

Diamond Shine, Inc
1340 E. 289th St
Wickliffe, OH 44092

Emergency Telephone Number

Company Phone Number 800-843-7627
Emergency Telephone (24 hr) INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

2. HAZARDS IDENTIFICATION

Appearance Red liquid

Physical State Liquid

Classification

| | |
|--|---------------------------|
| Skin corrosion/irritation | Category 1 Sub-category B |
| Serious eye damage/eye irritation | Category 1 |
| Specific target organ toxicity (single exposure) | Category 3 |

Signal Word

Danger

Hazard Statements

Causes severe skin burns and eye damage
May cause respiratory irritation. May cause drowsiness or dizziness



Precautionary Statements - Prevention

Do not breathe dust/fume/gas/mist/vapors/spray
 Wash face, hands and any exposed skin thoroughly after handling
 Wear protective gloves/protective clothing/eye protection/face protection
 Use only outdoors or in a well-ventilated area

Precautionary Statements - Response

Immediately call a poison center or doctor/physician
 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
 Wash contaminated clothing before reuse
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
 Immediately call a poison center or doctor/physician
 IF SWALLOWED: rinse mouth. Do NOT induce vomiting
 Immediately call a poison center or doctor/physician

Precautionary Statements - Storage

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

Precautionary Statements - Disposal

Dispose of contents/container to an approved waste disposal plant

Other Hazards

Harmful to aquatic life with long lasting effects

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Chemical Name | CAS No | Weight-% |
|-----------------------------|-----------|----------|
| Monoethanolamine | 141-43-5 | 5-20 |
| Trisodium Nitrilotriacetate | 5064-31-3 | <1 |
| Caustic Soda | 1310-73-2 | <1 |

If Chemical Name/CAS No is "proprietary" and/or Weight-% is listed as a range, the specific chemical identity and/or percentage of composition has been withheld as a trade secret.

4. FIRST-AID MEASURES

First Aid Measures

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| Eye Contact | Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician. |
| Skin Contact | IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. |
| Inhalation | IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician. Artificial respiration and/or oxygen may be necessary. |
| Ingestion | IF SWALLOWED: call a poison control center or physician immediately. If conscious give 2 glasses of water to dilute. Never give anything by mouth to an unconscious person. Do not induce vomiting. |

Most important symptoms and effects

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| Symptoms | Causes severe skin burns and eye damage. Headache. Nausea. May cause respiratory irritation. May cause drowsiness or dizziness. |
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Indication of any immediate medical attention and special treatment needed

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| Notes to Physician | Treat symptomatically. |
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| 5. FIRE-FIGHTING MEASURES |
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Suitable Extinguishing Media

Water spray (fog). Foam. Dry chemical. Sand/earth.

Unsuitable Extinguishing Media Not determined.

Specific Hazards Arising from the Chemical

Material is corrosive. The product is not expected to present any fire or explosion hazards under prescribed use conditions.

Hazardous Combustion Products None known.

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.

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| 6. ACCIDENTAL RELEASE MEASURES |
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Personal precautions, protective equipment and emergency procedures

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| Personal Precautions | Use personal protective equipment as required. |
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| Environmental Precautions | Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. See Section 13: DISPOSAL CONSIDERATIONS. |
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Methods and material for containment and cleaning up

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| Methods for Containment | Prevent further leakage or spillage if safe to do so. Contain spilled material if possible. Absorb with materials such as: Dirt. Sand. Sawdust. |
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| Methods for Clean-Up | Transfer liquid and solid material into suitable containers in accordance with local, state and federal regulations for disposal. |
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| 7. HANDLING AND STORAGE |
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Precautions for safe handling

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| Advice on Safe Handling | Handle in accordance with good industrial hygiene and safety practice. Use personal protection recommended in Section 8. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Follow all product label instructions. Use only as directed. Use only outdoors or in a well-ventilated area. |
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Conditions for safe storage, including any incompatibilities

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| Storage Conditions | Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Store away from heat and incompatible materials. |
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| Incompatible Materials | Acids. Soft metals. Store away from oxidizing agents/reducing agents. |
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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

| Chemical Name | ACGIH TLV | OSHA PEL | NIOSH IDLH |
|------------------------------|------------------------------|---|---|
| Monoethanolamine 141-43-5 | STEL: 6 ppm TWA: 3 ppm | TWA: 3 ppm TWA: 6 mg/m ³ (vacated) TWA: 3 ppm (vacated) TWA: 8 mg/m ³ (vacated) STEL: 6 ppm (vacated) STEL: 15 mg/m ³ | IDLH: 30 ppm TWA: 3 ppm TWA: 8 mg/m ³ STEL: 6 ppm STEL: 15 mg/m ³ |
| Caustic Soda 1310-73-2 | Ceiling: 2 mg/m ³ | TWA: 2 mg/m ³ (vacated) Ceiling: 2 mg/m ³ | IDLH: 10 mg/m ³ Ceiling: 2 mg/m ³ |

Appropriate engineering controls

Engineering Controls Apply technical measures to comply with the occupational exposure limits. Eyewash stations. Showers.

Individual protection measures, such as personal protective equipment

Eye/Face Protection Chemical anti-splash safety goggles.

Skin and Body Protection Protective gloves. Wear suitable protective clothing to prevent contact with skin.

Respiratory Protection Ensure adequate ventilation, especially in confined areas. In case of inadequate ventilation wear respiratory protection.

General Hygiene Considerations Wash contaminated clothing before reuse. Wash face, hands and any exposed skin thoroughly after handling. Protective clothing and equipment should be in accordance with 29 CFR 1910.132 and 1910.133.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

| | | | |
|-----------------------|------------|-----------------------|----------------|
| Physical State | Liquid | Odor | Not determined |
| Appearance | Red liquid | Odor Threshold | Not determined |
| Color | Red | | |

| <u>Property</u> | <u>Values</u> | <u>Remarks • Method</u> |
|------------------------------|-----------------------|---------------------------|
| pH | 12.4-13.5 | |
| Melting Point/Freezing Point | Not determined | |
| Boiling Point/Boiling Range | > 100 °C / > 212 °F | |
| Flash Point | Not applicable | |
| Evaporation Rate | Not available | |
| Flammability (Solid, Gas) | Liquid-not applicable | |
| Upper Flammability Limits | Not applicable | |
| Lower Flammability Limit | Not applicable | |
| Vapor Pressure | Not available | |
| Vapor Density | Not available | |
| Specific Gravity | 1.032-1.066 | @ 25 °C (77 °F) (1=Water) |
| Water Solubility | Completely soluble | |
| Solubility in other solvents | Not determined | |
| Partition Coefficient | Not determined | |
| Auto-ignition Temperature | Not determined | |
| Decomposition Temperature | Not determined | |
| Kinematic Viscosity | Not determined | |
| Dynamic Viscosity | 7 cSt | |
| Explosive Properties | Not an explosive | |
| Oxidizing Properties | Not determined | |

10. STABILITY AND REACTIVITY

Reactivity

Not reactive under normal conditions.

Chemical Stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous Polymerization Hazardous polymerization does not occur.

Conditions to Avoid

Excessive heat.

Incompatible Materials

Acids. Soft metals. Store away from oxidizing agents/reducing agents.

Hazardous Decomposition Products

None known based on information supplied.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Eye Contact Causes severe eye damage.

Skin Contact Causes severe skin burns.

Inhalation Avoid breathing vapors or mists.

Ingestion Do not taste or swallow.

Component Information

| Chemical Name | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|--|----------------------|---|----------------------|
| Water 7732-18-5 | > 90 mL/kg (Rat) | - | - |
| Monoethanolamine 141-43-5 | = 1720 mg/kg (Rat) | = 1 mL/kg (Rabbit) = 1025 mg/kg (Rabbit) | - |
| Caustic Soda 1310-73-2 | - | = 1350 mg/kg (Rabbit) | - |
| Trisodium Nitrilotriacetate 5064-31-3 | = 920 mg/kg (Rat) | - | > 5 mg/L (Rat) 4 h |

Information on physical, chemical and toxicological effects

Symptoms Please see section 4 of this SDS for symptoms.

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

The table below indicates whether each agency has listed any ingredient as a carcinogen. However, the product as a whole has not been tested.

| Chemical Name | ACGIH | IARC | NTP | OSHA |
|--|-------|----------|-----|------|
| Trisodium Nitrotriacetate 5064-31-3 | | Group 2B | | X |

IARC (International Agency for Research on Cancer)

Group 2B - Possibly Carcinogenic to Humans

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

STOT - single exposure

May cause respiratory irritation. May cause drowsiness or dizziness.

Numerical measures of toxicity

Not determined

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Harmful to aquatic life with long lasting effects.

Component Information

| Chemical Name | Algae/aquatic plants | Fish | Toxicity to microorganisms | Crustacea |
|--|--|--|----------------------------|---|
| Monoethanolamine 141-43-5 | 15: 72 h <i>Desmodesmus subspicatus</i> mg/L EC50 | 227: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 3684: 96 h <i>Brachydanio rerio</i> mg/L LC50 static 300 - 1000: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 114 - 196: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 200: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 flow-through | | 65: 48 h <i>Daphnia magna</i> mg/L EC50 |
| Caustic Soda 1310-73-2 | | 45.4: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static | | |
| Trisodium Nitrotriacetate 5064-31-3 | 560 - 1000: 96 h <i>Chlorella vulgaris</i> mg/L EC50 | 93 - 170: 96 h <i>Pimephales promelas</i> mg/L LC50 flow-through 175 - 225: 96 h <i>Lepomis macrochirus</i> mg/L LC50 static 252: 96 h <i>Lepomis macrochirus</i> mg/L LC50 470: 96 h <i>Pimephales promelas</i> mg/L LC50 static 560 - 1000: 96 h <i>Oryzias latipes</i> mg/L LC50 560 - 1000: 96 h <i>Oryzias latipes</i> mg/L LC50 semi-static 72 - 133: 96 h <i>Oncorhynchus mykiss</i> mg/L LC50 static 560 - 1000: 96 h <i>Poecilia reticulata</i> mg/L LC50 semi-static 560 - 1000: 96 h <i>Poecilia reticulata</i> mg/L LC50 114: 96 h <i>Pimephales promelas</i> mg/L LC50 | | 560 - 1000: 48 h <i>Daphnia magna</i> mg/L LC50 |

Persistence/Degradability

Not determined.

Bioaccumulation

Not determined.

Mobility

| Chemical Name | Partition Coefficient |
|------------------------------|-----------------------|
| Monoethanolamine 141-43-5 | -1.91 |

Other Adverse Effects

Not determined

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

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|-------------------------------|---|
| Disposal of Wastes | Disposal should be in accordance with applicable regional, national and local laws and regulations. |
| Contaminated Packaging | Disposal should be in accordance with applicable regional, national and local laws and regulations. |

California Hazardous Waste Status

| Chemical Name | California Hazardous Waste Status |
|---------------------------|-----------------------------------|
| Caustic Soda 1310-73-2 | Toxic Corrosive |

14. TRANSPORT INFORMATION

Note

Please see current shipping paper for most up to date shipping information, including exemptions and special circumstances. Based on package size, product may be eligible for limited quantity exception.

DOT

| | |
|-----------------------------|---|
| UN/ID No | UN3267 |
| Proper Shipping Name | Corrosive liquid, basic, organic, n.o.s. (Monoethanolamine) |
| Hazard Class | 8 |
| Packing Group | II |

IATA

| | |
|-----------------------------|---|
| UN/ID No | UN3267 |
| Proper Shipping Name | Corrosive liquid, basic, organic, n.o.s. (Monoethanolamine) |
| Hazard Class | 8 |
| Packing Group | II |

IMDG

| | |
|-----------------------------|---|
| UN/ID No | UN3267 |
| Proper Shipping Name | Corrosive liquid, basic, organic, n.o.s. (Monoethanolamine) |
| Hazard Class | 8 |
| Packing Group | II |
| Marine Pollutant | This material may meet the definition of a marine pollutant |

15. REGULATORY INFORMATION

International Inventories

TSCA

Listed

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

US Federal Regulations

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 | CERCLA/SARA RQ | Reportable Quantity (RQ) |
|---------------------------|--------------------------|----------------|---|
| Caustic Soda 1310-73-2 | 1000 lb | | RQ 1000 lb final RQ RQ 454 kg final RQ |

SARA 313

Not determined

CWA (Clean Water Act)

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

| Component | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|----------------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Caustic Soda 1310-73-2 (<1) | 1000 lb | | | X |

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical Name | New Jersey | Massachusetts | Pennsylvania |
|--|------------|---------------|--------------|
| Monoethanolamine 141-43-5 | X | X | X |
| Caustic Soda 1310-73-2 | X | X | X |
| Trisodium Nitrilotriacetate 5064-31-3 | | X | |

16. OTHER INFORMATION**NFPA****Health Hazards****Flammability****Instability****Special Hazards**

Not determined

Not determined

Not determined

Not determined

HMIS**Health Hazards****Flammability****Physical Hazards****Personal Protection**

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0

Not determined

Issue Date:

04-Feb-2014

Revision Date:

07-Apr-2014

Revision Note:

New format

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