# 3X BUG BLASTER Material Safety Data Sheet

**3X BUG BLASTER** **MSDS**
Date of Preparation: 02/09/12 Revision: 02/09/12

## Section 1 - Chemical Product and Company Identification

**Product/Chemical Name: 3X BUG BLASTER**
**Product Class:** Biodegradable Water Base High Alkaline Cleaner
**CAS Number:** Mixture – Not Established
**General Use:** Automotive Exterior Surface Cleaner Degreaser
**Supplier: DirectLine Ind.** PO Box 15133 St. Louis, MO. 63110, Phone: 866-773-6136
24-HOUR EMERGENCY CONTACT PHONE NUMBER 800- 255-3924 Chem-Tel

## Section 2 - Composition / Information on Ingredients

| Ingredient Name | CAS Number | %wt *or* % vol |
|---|---|---|
| Water | 7732-18-5 | 60-80 |
| Ethylene Glycol Monobutyl Ether | 111-76-2 | 1-5 |
| Alkylphenol Ethoxylate | 9016-45-9 | 5-10 |
| Tetrasodium Ethylenediamine Tetraacetate Acid | 64-02-8 | 3-10 |
| Sodium Metasilicate | 6834-92-0 | 5-10 |
| Nonionic Surfactant | Mixture (None) | 5-10 |

**Exposure Limits:**

| | OSHA-PEL | | ACGIH-TLV | | NIOSH | | NIOSH |
|---|---|---|---|---|---|---|---|
| **Ingredient** | **TWA** | **STEL** | **TWA** | **STEL** | **REL** | **STEL** | **IDLH** |
| Water | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. |
| Ethylene Glycol Monobutyl Ether | 25 ppm. | None estab. | 25 ppm. | None estab. | None estab. | None estab. | None estab. |
| Alkylphenol Ethoxylate | None estab. | None estab. | None Estab. | None estab. | None estab. | None estab. | None estab. |
| Tetrasodium Ethylenediamine Tetraacetate Acid | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. |
| Sodium Metasilicate | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. |
| Nonionic Surfactant | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. | None estab. |

## Section 3 – Health Hazard Identification

**Primary Entry Routes:** Ingestion, Inhalation, Skin Absorption, Skin and Eye Contact
**Target Organs:** Eyes, Skin, Respiratory System.

**HMIS**

| | |
|---|---|
| **H** | **2** |
| **F** | **1** |
| **R** | **0** |
| **PPE†** | |

†Sec.8

**Acute Effect Inhalation:** Vapor or mist can cause damage to the entire respiratory tract, severe irritation, and possible burns to tissue damage may result. Coughing, shortness of breath, dizziness, headaches, weakness and slurred speech can result.

**Eye:** Vapors or mists can cause severe irritation to permanent damage of cornea, depending on the concentration of fluid. Tearing, redness, swelling, blurred vision, possible tissue damage may result.

**Skin:** Both liquid and vapor can cause mild to severe irritation. Possible redness or drying of skin.

**Ingestion:** Severe irritation to burns of the mouth, throat and gastrointestinal tract. Severe abdominal pain, nausea, vomiting, lethargy and central nervous system disturbances.

**Carcinogenity:** IARC, NTP, and OSHA list ingredients Alkylphenol Ethoxylate having traces of Ethyleneoxide and Tetrasodium Ethylenediamine Tetraacetate Acid as possible carcinogens.

**Medical Conditions Aggravated by Long-Term Exposure**: Any pre-existing diseases or disorders of the nervous system, liver, respiratory system, skin, eyes, kidneys and gastrointestinal tract.

**Chronic Effects:** Burns or irreversible tissue damage to eyes, skin and gastrointestinal tract. Possible skin and respiratory diseases. Inhalation and ingestion may produce central nervous system, circulatory system and gastrointestinal system disturbances.

## Section 4 - First Aid Measures

**Inhalation:** Remove to fresh air. If breathing is difficult, have trained person administer oxygen. If respiration stops, give mouth-to-mouth resuscitation. GET MEDICAL ATTENTION IMMEDIATELY.

**Eye Contact:** IMMEDIATELY flush eyes with a directed stream of water for at least 15 minutes, forcibly holding eyelids apart to ensure complete irrigation of all eye and lid tissue. GET MEDICAL ATTENTION IMMEDIATELY.

**Skin Contact:** IMMEDIATELY flush skin thoroughly with cool water for at least 15 minutes and remove contaminated clothing and shoes. Wash thoroughly with soap and water. Get medical attention if irritation develops.

**Ingestion:** NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. Have patient drink several glasses of water; do not induce vomiting. GET MEDICAL ATTENTION IMMEDIATELY.

**Note to Physicians:** Treat symptoms

**Special Precautions/Procedures:** ***After first aid, get appropriate in-plant, paramedic, or community medical support.***

## Section 5 - Fire-Fighting Measures

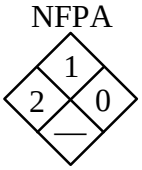
**Flash Point:** Estimated at 200°F

**Flash Point Method:** Not Established

**Autoignition Temperature:** No Data

**LEL:** No Data

**UEL:** No Data




**Extinguishing Media:** Water spray, dry chemical, carbon dioxide, alcohol foam.

**Unusual Fire or Explosion Hazards:** This product would not be expected to burn or ignite unless a majority of the water is evaporated or boiled away. The remaining organic compounds may be ignitable. Heated vapors may be ignited by flames or sparks.

**Hazardous Combustion Products:** Product may react with some metals (Aluminum, Zinc, Tin) to release hydrogen gas, carbon oxides, nitrogen oxides and sulfur oxides.

**Fire-Fighting Instructions:** Under normal conditions this product is not combustible. Use Extinguishing media appropriate for surrounding fire. Use water spray to cool nearby containers and structures exposed to fire. Do not release runoff from fire control methods into sewers or waterways. Keep personnel removed and upwind.

**Fire-Fighting Equipment:** Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full facepiece operated in pressure-demand or positive-pressure mode with full protective clothing.

## Section 6 - Accidental Release Measures

**Spill/Leak Procedures:** Review section on fire fighting measures, use appropriate personal protective equipment measures during cleanup. Extinguish all ignition sources for combustible products with flash points and ventilate area. Dike area with inert materials to contain spill. Prevent liquid from entering sewers, waterways or low areas. Transfer liquids and solid diking material to separate suitable approved containers for recovery or disposal. Do not flush into sewer. Neutralize remaining spilled material with a diluted solution of inorganic acid. Clean up residue with soap and water. Keep non-authorized personnel away. Spill area will be slippery, use care to avoid falling.

**Waste Disposal Method:** Recovery and reuse rather than disposal should be the ultimate goal of handling efforts after a spill. Dispose of recovered non-usable hazardous liquid product and material used in cleaning up the spill in a manner approved for this material. Consult appropriate federal, state and local regulatory agencies to ascertain proper disposal procedures. Small spills (less than 1 gallon) can be neutralized with a diluted solution of an inorganic acid or approx. 400 parts water to 1 part product adjusting the pH to a safe range (6-8) prior to discharging into a waste treatment system.

**Regulatory Requirements:** Any environmental release of a material that could cause harm to people or to the environment must be reported immediately to the national response center (NRC) by calling 800-424-8802 (CERCLA) and to the appropriate state and local agencies (SARA).

## Section 7 - Handling and Storage

**Handling Precautions:** This is a high alkaline product and should be used with caution. Do not get in eyes, on skin or on clothing. Harmful if inhaled, absorbed through skin or swallowed. Prevent possible eye and skin contact by wearing the recommended protective clothing and equipment. Wash thoroughly after handling. Remove contaminated clothing after use. Do not breathe vapors or mist; use with adequate ventilation. To ensure adequate ventilation open windows and doors when using indoors. Do not ingest. Do not cut, grind, puncture, drill or weld on or near containers. Keep containers closed when not in use. Vapors are combustible to open flames. Do not use pressure to empty containers. Always loosen closure cautiously when opening. Use in an area that will allow for evaporation or runoff. Prevent soil contamination and entry into storm and floor drains, streams and into any body of water.

**Storage Requirements:** Store in a cool, dry, well-vented area away from direct sunlight, heat, flames and sparks in a controlled environment. Do not store near combustible materials or liquids. Do not store in open unlabeled or mislabeled containers. Empty containers retain product vapor or residue. Follow all label warnings even after container is empty. Keep from freezing. Keep out of reach of children.

## Section 8 - Exposure Controls / Personal Protection

**Engineering Controls:** Use local exhaust ventilation with a minimum capture velocity of 150 FT/Min. At the point of dust or mist evolution.

**Ventilation:** Ensure good general ventilation. Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2) or standard occupational exposure limits. Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

**Respiratory Protection:** If using in a confined area and fumes are present use a respirator. None required under normal circumstances of use if maintaining airborne contaminant concentrations below standard occupational exposure limits. Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or nonroutine operations (cleaning spills, reactor vessel, or storage tanks), wear an SCBA. *Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.* If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

**Protective Clothing/Equipment:** Wear chemically protective gloves, aprons, and clothing to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

**Safety Stations:** Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

**Contaminated Equipment:** Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

**Comments:** Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics. Wash thoroughly after handling.

## Section 9 - Physical and Chemical Properties

**Physical State:** Water Like Liquid
**Appearance and Odor:** Clear Purple Liquid Floral scented
**Odor Threshold: Vapor Pressure:** Not Determined
**Vapor Density (Air=1):** Not Determined
**Specific Gravity ($H_2O$=1, at 72 °F):** 1.04
**pH:** 12 – 13

**Water Solubility:** 100%
**Boiling Point:** Estimated at 212$^{o}$F
**Freezing Point:** Estimated at 15-25$^{o}$F
**Viscosity:** 15-25 cps
**% Volatile:** 60 – 80%
**Evaporation Rate:** Less than 1 (N Butylacetate=1)

## Section 10 - Stability and Reactivity

**Stability:** Stable in a controlled environment in closed containers under normal storage and handling conditions.

**Polymerization:** Hazardous polymerization cannot occur.

**Chemical Incompatibilities:** Oxidizers, acids, ammonia, chlorine and food sugars.

**Conditions to Avoid:** Avoid excessive heat. Not for use on Tin, Aluminum, Zinc, Brass and Alloy Metals. Avoid contact with leather, wool, glass and varnished, painted or hot surfaces.

**Hazardous Decomposition Products:** Thermal oxidative decomposition of this product can produce carbon monoxide and/or carbon dioxide, nitrogen and sulfur oxides, hydrogen gas.

## Section 11 - Toxicological Information

### Toxicity Data:*

**Eye Effects:** No test data. Corrosive to eyes; causing severe irritation and tissue damage.

**Skin Effects:** No test data. Skin irritant; causing possible tissue damage.

**Ingestion:** No test data. Ingestion hazard causing possible tissue damage to mouth, throat and gastrointestinal tract.

**Inhalation:** No test data. Vapors or mists irritating to respiratory tract and eyes causing possible tissue damage.

**Acute Inhalation Effects:**
Human, inhalation, $TC_{Lo}$:500 ppm, no data

**Acute Oral Effects:**
Rat, oral, $LD_{50}$: 320 mg/kg, No Data

**Chronic Effects:** See Section 3

**Carcinogenicity:** See Section 3.

**Mutagenicity:** No data

**Teratogenicity:** No Data

- Specific tests have not been conducted on this product. Our evaluations are based on information from similar products, the ingredients and technical literature. Data for this material has been used to estimate the symptoms and effects of exposure.

## Section 12 – Ecological Information

### Ecological Data*

**Ecotoxicity:** This material has a moderate potential for toxicity.

**Environmental Fate:** Moderate biochemical oxygen demand and moderate potential to cause oxygen depletion in aqueous systems. A moderate potential to affect aquatic organisms. High alkaline material. (pH of 13-14). If released to surface water this compound will cause the pH to rise depending on the buffering of the water body. Aquatic organisms become stressed as pH exceeds 9 and intolerant of pH in excess of 10.

**Environmental Degradation:** When diluted with large amounts of water, this material released into the environment is not expected to have a significant impact. (Minimum of 400 parts water to 1 part product). A low potential to persist in the environment.

**Soil Absorption/Mobility:** This material is expected to be mobile in soil and can be expected to absorb to suspended solids or sediments in water. A moderate potential to affect plant life.

*****Specific tests have not been conducted on this product. Our evaluation is based on information from similar products, the ingredients and technical literature. This information should be used only for a small truck spill and not meant to address discharges to sewers or treatments plants. Data for this material have been used to estimate its environmental impact.

## Section 13 - Disposal Considerations

**Disposal:** Do not discharge this material into lakes, streams, ponds or other waters. Do not discharge this material into sewer systems without approval from local sewage treatment plant authority. Care must be taken to prevent environmental contamination from the use of this material. If material is not approved to be discharged into a sewer system contact a licensed waste management contractor for detailed recommendations for disposal. Follow applicable Federal, state, and local regulations. Non hazardous liquid can be incinerated if it meets all OSHA and EPA regulations. Incinerate at a licensed waste disposal site with approved environmental authority. If this product is altered, it is the responsibility of the user to determine whether the material meets the criteria for hazardous waste at the time of disposal.

**Disposal Regulatory Requirements:** Follow applicable NRC, CERCLA, and SARA regulations.

**Container Cleaning and Disposal:** Prior to cleaning or disposing of container use caution when handling empty container (contains combustible vapors). Do not use pressure to empty containers. Empty containers retain product vapor or residue. Follow all label warnings even after container is empty. Do not cut, weld, braze, solder, drill, grind or expose empty containers to heat, flames sparks or other sources of ignition. Follow applicable federal, state and local OSHA and EPA regulations.

## Section 14 - Transport Information

### DOT Transportation Data (49 CFR 172.101):

**Shipping Name:** None
**Shipping Symbols:** None
**Hazard Class:** None
**ID No.:** None
**Packing Group:** None
**Label:** None
**Special Provisions (172.102):** None

**Packaging Authorizations**
**a) Exceptions:** None
**b) Non-bulk Packaging:** None
**c) Bulk Packaging:** Not Applicable

**Quantity Limitations**
**a) Passenger, Aircraft, or Railcar:** No Data
**b) Cargo Aircraft Only:** No Data

**Vessel Stowage Requirements**
**a) Vessel Stowage:** No Data
**b) Other:**

## Section 15 - Regulatory Information

**EPA Regulations:**

RCRA Hazardous Waste Number: Mixture Not Determined. Listed for the hazardous ingredients in the product. (40 CFR 261.33)

RCRA Hazardous Waste Classification (40 CFR 261.??): Mixture Not Determined.

CERCLA Hazardous Substance (40 CFR 302.4) Listed for some of the hazardous ingredients in this product specific per RCRA, Sec. 3001; CWA, Sec. 311 (b)(4); CWA, Sec. 307 (a), CAA, Sec. 112

CERCLA Reportable Quantity (RQ), Not Classified. Listed for some of the hazardous ingredients in this product.

SARA 311/312 Codes: Immediate (Acute) Health Hazard

SARA Toxic Chemical (40 CFR 372.65): Not established

SARA EHS (Extremely Hazardous Substance) (40 CFR 355): Not Determined, Threshold Planning Quantity (TPQ): Not established

**OSHA Regulations:**

Air Contaminant (20 CFR 1910.1000, Table Z-1, Z-1-A): Mixture. Not Determined.

OSHA Specifically Regulated Substance (29 CFR 1910.????): Mixture. Not Determined.

**State Regulations:** Highly diluted mixture of small amounts of hazardous ingredients. Follow all state regulations for a high alkaline liquid.

## Section 16 - Other Information

**Prepared By:** Tec Service
**Revision Notes:** None
**Additional Hazard Rating Systems:** None

**Disclaimer:** This material safety data sheet and the information it contains is offered to you in good faith as a guide to the safe use of the product and believed to be accurate to the best of our knowledge. Not all information in this data sheet is supported by specific testing and the evaluations are based on information from similar products, the ingredients and technical literature. The data contained herein is provided for your guidance only when handling the specific material designated in this MSDS and does not relate to any process or to use with any other materials. We recommend testing to determine the suitability of this product for your particular purpose prior to use. No responsibility is accepted that the information is sufficient, correct, and complete in all circumstances, as to the safety and health of individuals, disposal of materials and protection of the environment. It is the user's obligation to consider this MSDS as a supplement to other information required to make an independent determination to assure compliance to applicable laws and regulations when handling this material. The data in this document is provided without any representation or warranty expressed or implied regarding its accuracy or correctness. No warranty, either expressed or implied of merchantability or fitness or of any nature is made with respect to any product referred to herein. DirectLine Ind. does not assume responsibility and expressly disclaims liability for loss, damage or expense arising out of or in anyway connected with the handling, storage, use or disposal of the products referred to herein. Distributor/Manufacturer urges persons receiving this data to make their own determination as to the information's suitability and completeness for their particular application.