



Rust Bullet® Metal Blast

MATERIAL SAFETY DATA SHEET

Prepared to U.S. OSHA, CMA, ANSI, Canadian WHMIS Standards, Australian WorkSafe, Japanese Industrial Standard JIS Z 7250:2000, and European Directives

1. PRODUCT IDENTIFICATION

TRADE NAME (AS LABELED):	Rust Bullet® Metal Blast
SYNONYMS:	Blend
CHEMICAL SHIPPING NAME/CLASS:	Non-Regulated
U.N. NUMBER:	None
MANUFACTURER'S NAME:	Rust Bullet® LLC
ADDRESS:	300 Brinkby Avenue; Suite 200 Reno, NV 89509
EMERGENCY PHONE:	800-424-9300 or +01-703-527-3887 (CHEMTREC, CCN17521)
BUSINESS PHONE:	775-829-5606 (For product information)
DATE OF PREPARATION:	March 26, 2010
DATE OF REVISION:	June 28, 2013

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Warning!

Product Description: This product is a pale yellow liquid with a mild odor.

Health Hazards: Causes irritation to skin, eyes and respiratory tract.

Flammability Hazards: Non-flammable liquid with flash point greater than 200°F.

Reactivity Hazards: This product is slightly reactive.

Environmental Hazards: Release of the product is not expected to cause adverse effects to the aquatic environment.

Emergency Recommendations: Emergency responders must have personal protective equipment and fire protection appropriate for the situation to which they are responding.

EU LABELING AND CLASSIFICATION: This product meets the definition of a hazardous substance or preparation according to EU Regulations (EC) No 1272/2008.

INDEX NUMBER:

EC# 231-791-2 This substance is not classified in the Annex I of Directive 67/548/EEC

EC# 231-633-2 Annex I Index# 015-011-00-6

EC# 203-905-0 Annex1 Index# 603-014-00-0

Detergent used in this product is Trade Secret and are not listed in Annex I

Corrosion Inhibitor used in this product is Trade Secret and are not listed in Annex I

COMPONENT(S) CONTRIBUTING TO HAZARD:

Phosphoric Acid, 2-Butoxyethanol

GHS CLASSIFICATION:

Acute Toxicity Inhalation Category 4

Acute Toxicity Dermal Category 4

Acute Toxicity Oral Category 4

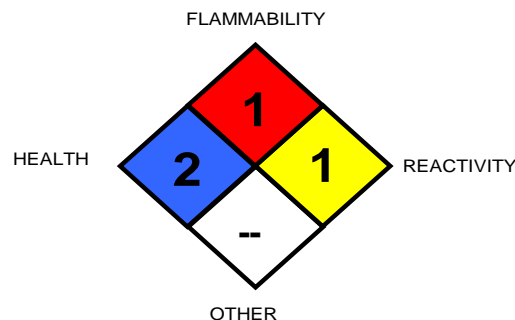
Eye Irritant Category 2

Skin Irritant Category 2

SIGNAL WORD : Warning!



HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)		2	
FLAMMABILITY HAZARD (RED)		1	
REACTIVITY (YELLOW)		1	
PROTECTIVE EQUIPMENT			
EYES	RESPIRATORY	HANDS	BODY
	SEE SECTION 8		SEE SECTION 8
For Routine Industrial Use and Handling Applications			



Scale: 0 = Minimal 1 = Slight 2 = Moderate
3 = Serious 4 = Severe * = Chronic hazard



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HAZARD STATEMENT:

- H302 Harmful if swallowed
- H315 Causes skin irritation
- H319 Causes serious eye irritation
- H332 Harmful if inhaled

PREVENTION STATEMENT :

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
- P271 Use only in well ventilated areas.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.

RESPONSE STATEMENT:

- P363 Wash contaminated clothing before reuse.
- P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or Doctor/Physician.
- P333 + P313 IF skin irritation or rash occurs : Get medical advice/attention.

HEALTH EFFECTS OR RISKS FROM EXPOSURE:**ACUTE:**

INHALATION: Inhalation can cause severe irritation of mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting. High concentrations may cause lung damage. An irritant to the nose, throat, and upper respiratory tract.

INGESTION: Causes irritation to the gastrointestinal tract and possible chemical burns. Symptoms may include nausea, vomiting and diarrhea.

SKIN CONTACT: Causes irritation to skin. Symptoms include redness, itching, and pain. Repeated or prolonged contact with the skin has a defatting effect and may cause dryness, cracking, and possibly dermatitis.

EYE CONTACT: Contact with liquid causes possible irritation, redness and pain.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Individuals with pre-existing skin, eye, impaired liver, kidney or respiratory function may be more susceptible to the effects of this substance.

CHRONIC:

Prolonged inhalation may cause respiratory tract inflammation and lung damage. Prolonged or repeated skin contact may cause dermatitis. Prolonged or repeated eye contact may cause conjunctivitis. Chronic exposure to organic solvents has been associated with various neurotoxic effects including permanent brain and nervous system damage. Symptoms include loss of memory, loss of intellectual ability and loss of coordination.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification	Risk Phrases
Water	45 – 70%	7732-18-5	231-791-2	None	None Known
Phosphoric Acid	10 – 20%	7664-38-2	231-633-2	[Xi]	R36/38
2-Butoxyethanol	3 - 10%	111-76-2	203-905-0	[Xn] Harmful, [Xi] Irritant	R20/21/22, R36/38
Detergent	2 – 12%	Trade Secret	Trade Secret	None	None Known
Corrosion Inhibitor	3 – 14%	Trade Secret	Trade Secret	None	None Known
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					

NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2010 format. This product has been classified in accordance with the hazard criteria of the CPR and the MSDS contains all the information required by the CPR, EU Directives and the Japanese Industrial Standard JIS Z 7250: 2000.

4. FIRST-AID MEASURES

SKIN EXPOSURE: If this product contaminates the skin, begin decontamination with running water. Minimum flushing is for 5 minutes. Remove exposed or contaminated clothing, taking care not to contaminate eyes. The contaminated individual should seek medical attention if any adverse effect occurs.



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EYE EXPOSURE: If this product enters the eyes, open contaminated individual's eyes while under gently running water. Use sufficient force to open eyelids. Remove contact lenses if worn. Have contaminated individual "roll" eyes. Minimum flushing is for 15 minutes. Contaminated individual must seek medical attention if irritation develops or persists or if visual changes occur.

INHALATION: If vapors/mists generated by this product are inhaled, remove contaminated individual to fresh air. If necessary, use artificial respiration to support vital functions. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION: If this product is swallowed, CALL PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION. DO NOT induce vomiting; if vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into lungs. Never induce vomiting or give diluents (milk or water) to someone who is unconscious, having convulsions, or unable to swallow. SEEK IMMEDIATE MEDICAL ATTENTION.

RECOMMENDATIONS TO PHYSICIANS: Treat symptoms and eliminate overexposure.

5. FIRE-FIGHTING MEASURES

FLASH POINT: >200°F

AUTOIGNITION TEMPERATURE: Not Established

FLAMMABLE LIMITS (in air by volume, %): Lower NE% Upper NE%

FIRE EXTINGUISHING MATERIALS: Use fire extinguishing methods listed below:

Water Spray: Yes

Carbon Dioxide: Yes

Foam: Yes

Dry Chemical: Yes

Halon: Yes

Other: Any "C" Class

UNUSUAL FIRE AND EXPLOSION HAZARDS: Containers heated in a fire may swell and burst.

Explosion Sensitivity to Mechanical Impact: No Information Available

Explosion Sensitivity to Static Discharge: No Information Available

SPECIAL FIRE-FIGHTING PROCEDURES: Incipient fire responders should wear eye protection. Structural firefighters must wear Self-Contained Breathing Apparatus and full protective equipment. Isolate materials not yet involved in the fire and protect personnel. Move containers from fire area if this can be done without risk; otherwise, cool with carefully applied water spray. If possible, prevent runoff water from entering storm drains, bodies of water, or other environmentally sensitive areas.

6. ACCIDENTAL RELEASE MEASURES

SPILL AND LEAK RESPONSE: Evacuate unprotected personnel from the area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in section 8. Contain and recover liquid if possible. Use non-sparking tools and equipment. Collect liquid in an appropriate container or absorb with an inert material (e. g., vermiculite, dry sand, earth), and place in a chemical waste container. Do not use combustible materials, such as saw dust. Do not discharge to sewers and surface waters. Notify authorities if entry occurs. Remove all sources of ignition.

U.S. Regulations (CERCLA) requires reporting spills and releases to soil, water and air in excess of reportable quantities.

The toll free number for the US Coast Guard National Response Center is (800) 424-8802.

Dispose of in accordance with U.S. Federal, State, and local hazardous waste disposal regulations and those of Canada and its Provinces, those of Australia, Japan and EU Member States (see Section 13, Disposal Considerations).

7. HANDLING and STORAGE

WORK PRACTICES AND HYGIENE PRACTICES: As with all chemicals, avoid getting this product ON YOU or IN YOU. Wash thoroughly after handling this product. Do not eat, drink, smoke, or apply cosmetics while handling this product. Do not breathe gas/fumes/ vapor/spray. Wear suitable protective clothing. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, and alkalis

STORAGE AND HANDLING PRACTICES: Protect against physical damage. Store in a cool, dry well-ventilated location. Separate from incompatibles.

Storage Temperature (min/max): 32°F (0°C) / 110°F (43°C)

Shelf Life: 24-months at 77°F (25°C). When unopened.



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8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Water	7732-18-5	Not Listed	Not Listed
Phosphoric Acid	7664-38-2	1 mg/m ³	1 mg/m ³
2-Butoxyethanol	111-76-2	20 ppm	50 ppm
Detergent	Trade Secret	Not Listed	Not Listed
Corrosion Inhibitor	Trade Secret	Not Listed	Not Listed

VENTILATION AND ENGINEERING CONTROLS: Use with adequate ventilation to ensure exposure levels are maintained below the limits provided below. Ensure eyewash/safety shower stations are available near areas where this product is used.

The following information on appropriate Personal Protective Equipment is provided to assist employers in complying with OSHA regulations found in 29 CFR Subpart I (beginning at 1910.132) or equivalent standard of Canada, or standards of EU member states (including EN 149 for respiratory PPE, and EN 166 for face/eye protection), and those of Japan. Please reference applicable regulations and standards for relevant details.

RESPIRATORY PROTECTION: Maintain airborne contaminant concentrations below guidelines listed above, if applicable. If necessary, use only respiratory protection authorized in the U.S. Federal OSHA Respiratory Protection Standard (29 CFR 1910.134), equivalent U.S. State standards, Canadian CSA Standard Z94.4-93, the European Standard EN149, or EU member states.

EYE PROTECTION: Use chemical safety goggles and/or a full face shield where splashing is possible. Maintain eye wash fountain and quick-drench facilities in work area. Contact lenses pose a special hazard; Do not wear contact lenses. If necessary, refer to U.S. OSHA 29 CFR 1910.133, Canadian Standards, and the European Standard EN166, Australian Standards, or relevant Japanese Standards.

HAND PROTECTION: Use chemically-resistant gloves when handling this product. If necessary, refer to U.S. OSHA 29 CFR 1910.138, the European Standard DIN EN 374, the appropriate Standards of Canada, Australian Standards, or relevant Japanese Standards.

BODY PROTECTION: Use body protection appropriate for task (e.g. lab coat, overalls). If necessary, refer to appropriate Standards of Canada, or appropriate Standards of the EU, Australian Standards, or relevant Japanese Standards. If a hazard of injury to the feet exists due to falling objects, rolling objects, where objects may pierce the soles of the feet or where employee's feet may be exposed to electrical hazards, use foot protection, as described in U.S. OSHA 29 CFR 1910.136.

9. PHYSICAL and CHEMICAL PROPERTIES

VAPOR DENSITY: Heavier than air

% VOLATILE: <10%

SOLUBILITY IN WATER: Soluble

VAPOR PRESSURE: No Data

ODOR: Mild Odor

APPEARANCE and COLOR: Pale yellow liquid

EVAPORATION RATE (n-BuAc=1): Slower than ether

MELTING/FREEZING POINT: No Data

BOILING POINT: No data

pH: Acidic

SPECIFIC GRAVITY: 1.104 kg/l

10. STABILITY and REACTIVITY

STABILITY: Stable under conditions of normal storage and use.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon dioxide and carbon monoxide may form when heated to decomposition.

MATERIALS WITH WHICH SUBSTANCE IS INCOMPATIBLE: Avoid contact with oxidizing agents and alkalis.

POSSIBILITY OF HAZARDOUS REACTIONS: Will not occur.

CONDITIONS TO AVOID: Incompatible materials. Can cause corrosion to copper alloys and aluminum.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

LD50/LC50:

CAS# 7732-18-5:

Oral, rat: LD50 = >90 mL/kg;



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CAS# 7664-38-2:

Draize test, rabbit, eye: 119 mg Severe;
Draize test, rabbit, skin: 595 mg/24H Severe;
Inhalation, mouse: LC50 = 25.5 mg/m³;
Inhalation, rat: LC50 = >850 mg/m³/1H;
Inhalation, rat: LC50 = 25.5 mg/m³;
Oral, mouse: LD50 = 1.25 gm/kg;
Oral, rat: LD50 = 1530 mg/kg;
Oral, rat: LD50 = 1.25 gm/kg;
Skin, rabbit: LD50 = 2740 mg/kg;

CAS# 111-76-2:

Dermal, guinea pig: LD50 = 230 uL/kg;
Draize test, rabbit, eye: 100 mg Severe;
Draize test, rabbit, eye: 100 mg/24H Moderate;
Inhalation, mouse: LC50 = 700 ppm/7H;
Inhalation, mouse: LC50 = 3380 mg/m³/7H;
Inhalation, rat: LC50 = 450 ppm/4H;
Inhalation, rat: LC50 = 2900 mg/m³/7H;
Oral, mouse: LD50 = 1230 mg/kg;
Oral, mouse: LD50 = 1167 mg/kg;
Oral, rabbit: LD50 = 300 mg/kg;
Oral, rabbit: LD50 = 320 mg/kg;
Oral, rat: LD50 = 470 mg/kg;
Oral, rat: LD50 = 917 mg/kg;

Acute effects: Burning and stinging of eyes. Vapor inhalation may moderately irritate the upper respiratory tract. Contact with skin may cause irritation. Ingestion may cause health problems including burns of mouth and throat, stomach pain and sting, nausea and sickness.

This product may have a degreasing action on the skin, producing dryness and chapped skin after repeated exposure.

CARCINOGENICITY:

SUSPECTED CANCER AGENT: One of the ingredients are found on the following lists: FEDERAL OSHA Z LIST, NTP, CAL/OSHA, IARC and therefore are considered to be, or suspected to be a cancer-causing agent by these agencies.

CAS# 111-76-2:

ACGIH: A3 - Confirmed animal carcinogen with unknown relevance to humans California: Not listed. NTP: Not listed.

IARC: Not listed.

REPRODUCTIVE EFFECTS: No information found

MUTAGENICITY: No information found

NEUROTOXICITY: No information found

12. ECOLOGICAL INFORMATION

ALL WORK PRACTICES MUST BE AIMED AT ELIMINATING ENVIRONMENTAL CONTAMINATION.

ENVIRONMENTAL STABILITY: When released into the soil, this material may leach into groundwater. When released into water, this material may biodegrade to a moderate extent. This material is not expected to significantly bioaccumulate.

CHEMICAL EFFECT ON PLANTS, ANIMALS AND AQUATIC LIFE: This product has not been tested for its environmental effects on plants, animals or aquatic life.

13. DISPOSAL CONSIDERATIONS

PREPARING WASTES FOR DISPOSAL: Waste disposal must be in accordance with appropriate U.S. Federal, State, and local regulations, those of Canada, Australia, EU Member States and Japan.



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14. TRANSPORTATION INFORMATION

US DOT, IATA, IMO, ADR:

U.S. DEPARTMENT OF TRANSPORTATION (DOT) SHIPPING REGULATIONS: This product is classified (per 49 CFR 172.101) by the U.S. Department of Transportation, as follows.

Domestic (Land, D.O.T.) – Non-Regulated Material

PRODUCT LABEL: Rust Bullet® Metal Blast

UN NUMBER: NA

D.O.T. HAZARD CLASS: NA

PACKING GROUP: NA

International (Water, I.M.O.) –

ADR: N/A

PRODUCT LABEL: Rust Bullet® Metal Blast

UN NUMBER: NA

D.O.T. HAZARD CLASS: NA

PACKING GROUP: NA

D.O.T. SHIPPING NAME: **Non-Regulated Material**

SPECIAL PROVISIONS: N.A

International (Air, I.C.A.O.) & Domestic (AIR): Non-Regulated Material

AIR-CARGO: Packing Instructions: NA Maximum Quantity: NA

AIR-PASS.: Packing Instructions: NA Maximum Quantity: NA

Special Instructions: --

MARINE POLLUTANT: The components of this product are not designated by the Department of Transportation to be Marine Pollutants (49 CFR 172.101, Appendix B).

INTERNATIONAL AIR TRANSPORT ASSOCIATION SHIPPING INFORMATION (IATA): This product is not considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is not considered as dangerous goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is not considered by the United Nations Economic Commission for Europe to be dangerous goods.

15. REGULATORY INFORMATION

UNITED STATES REGULATIONS:

U.S. SARA REPORTING REQUIREMENTS: The components of this product is subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

SARA 313: This material contains 2-Butoxyethanol (listed as Glycol ethers), <10%, (CAS# 111-76-2) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

U.S. SARA THRESHOLD PLANNING QUANTITY: There are no specific Threshold Planning Quantities for the components of this product. The default Federal MSDS submission and inventory requirement filing threshold of 10,000 lbs (4,540 kg) therefore applies, per 40 CFR 370.20.

U.S. CERCLA REPORTABLE QUANTITY (RQ): CAS# 7664-38-2: 5000 lb final RQ; 2270 kg final RQ

U.S. TSCA INVENTORY STATUS: The components of this product are listed on the TSCA Inventory or are exempted from listing.

CLEAN WATER ACT: Not Listed

STATE REGULATIONS: None

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65): Ingredient(s) within this product are not on the Proposition 65 Lists.

CANADIAN REGULATIONS:

CANADIAN DSL/NDL INVENTORY STATUS: The components of this product are on the DSL Inventory, or are exempted from listing.

OTHER CANADIAN REGULATIONS: Not applicable.

CANADIAN ENVIRONMENTAL PROTECTION ACT (CEPA) PRIORITIES SUBSTANCES LISTS:

WHMIS: This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

CANADIAN WHMIS CLASSIFICATION and SYMBOLS: CLASS D-2B: Material causing other toxic effects.



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EUROPEAN ECONOMIC COMMUNITY INFORMATION:

EU LABELING AND CLASSIFICATION: This product meets the definition of the following hazard class as defined by the European Economic Community Guidelines.

EU CLASSIFICATION: [Xn] Harmful, [Xi] Irritant

EU RISK PHRASES: R20/21/22: Harmful by inhalation, in contact with skin and if swallowed, R36/38: Irritating to eyes and skin.

EU SAFETY PHRASES: S24/25: Avoid contact with skin and eyes; S26: In case of contact with eye, rinse immediately with plenty of water and seek medical advice; S46: If swallowed, seek medical advice immediately and show this container or label.



AUSTRALIAN INFORMATION FOR PRODUCT: The components of this product are listed on the International Chemical Inventory list.

JAPANESE INFORMATION FOR PRODUCT:

JAPANESE MINISTER OF INTERNATIONAL TRADE AND INDUSTRY (MITI) STATUS: The components of this product are not listed as Class I Specified Chemical Substances, Class II Specified Chemical Substances, or Designated Chemical Substances by the Japanese MITI.

JAPANESE ENCS INVENTORY: The components of this product are on the ENCS Inventory as indicated in the section on International Chemical Inventories.

POISONOUS AND DELETERIOUS SUBSTANCES CONTROL LAW: No component of this product is a listed Specified Poisonous Substance under the Poisonous and Deleterious Substances Control Law.

INTERNATIONAL CHEMICAL INVENTORIES:

Listing of the components on individual country Chemical Inventories is as follows:

Asia-Pac: Not all components Listed

Australian Inventory of Chemical Substances (AICS): Not all components Listed

Korean Existing Chemicals List (ECL): Not all components Listed

Japanese Existing National Inventory of Chemical Substances (ENCS): Not all components Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Not all components Listed

Swiss Giftlist List of Toxic Substances: Not all components Listed

U.S. TSCA: Listed

16. OTHER INFORMATION

Prepared By: John Shipps (Shipps Inc.)

Approval Date: June 28, 2013

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END OF MSDS SHEET