



Rust Bullet®

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®
SYNONYMS: Metallic Pigmented Polyurethane Coating
CHEMICAL SHIPPING NAME/CLASS: See Section 14 for Details
U.N. NUMBER: UN1263
MANUFACTURER'S NAME: Rust Bullet® LLC
ADDRESS: 300 Brinkby Avenue; Suite 200
 Reno, NV 89509
 800-424-9300 or 202-483-7616 (CHEMTREC, CCN17521)
 775-829-5606 (For product information)
EMERGENCY PHONE: February 8, 2010
BUSINESS PHONE: July 17, 2011
DATE OF PREPARATION:
DATE OF REVISION:

2. HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: Danger!
Product Description: This product is a metallic aluminum liquid with a solvent odor.
Health Hazards: Harmful if swallowed or inhaled. Affects central nervous system. Causes irritation to skin, eyes and respiratory tract.
Flammability Hazards: Flammable Liquid Flash point 123°F (50.5°C)
Reactivity Hazards: This product is reactive.
Environmental Hazards: Release of the product 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# Proprietary This substance is not classified in the Annex I of Directive 67/548/EEC

EC# 215-535-7 Annex1 Index# 601-022-00-9

EC# 231-072-3 Annex1 Index# 013-002-00-1

EC# 203-745-1 Annex1 Index# 607-026-00-7

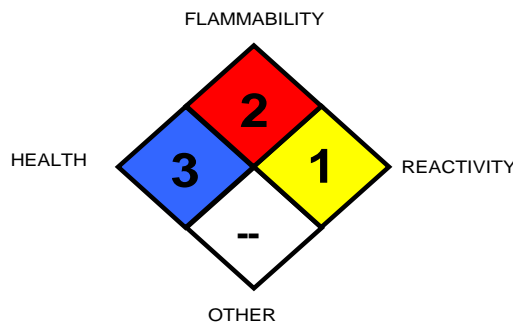
EC# 202-966-0 Annex1 Index# 615-005-00-9

EC# 247-714-0 Annex1 Index# 615-005-00-9

GHS CLASSIFICATION:

- Flammable Liquid Category 2
- STOT SE Category 3
- Acute Toxicity Inhalation Category 4
- Acute Toxicity Dermal Category 4
- Skin Irritant Category 2
- Water-Reactant Category 2
- Eye Irritant Category 2
- Respiratory Sensitizer Category 1
- Skin Sensitizer Category 1

HAZARDOUS MATERIAL IDENTIFICATION SYSTEM			
HEALTH HAZARD (BLUE)		3	
FLAMMABILITY HAZARD (RED)		2	
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

SIGNAL WORD : Danger !





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HAZARD STATEMENT:

- H226 Flammable Liquid and Vapor
- H304 May be fatal if swallowed and enters airways
- H315 Causes skin irritation
- H317 May cause an allergic skin reaction
- H319 Causes serious eye irritation
- H332 Harmful if inhaled
- H334 May cause breathing difficulties if inhaled
- H335 May cause respiratory irritation

PREVENTION STATEMENT :

- P210 Keep away from heat/sparks/open flame/hot surfaces – No Smoking.
- P242 Use only non-sparking tools.
- P243 Take precautionary measures against static discharge.
- 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. 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: Causes 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:

Chronic overexposure may cause anemia with leukocytosis (transient increase in the white blood cell count) and damage to the liver and kidneys.

This product contains an ingredient(s) designated by IARC, NTP, ACGIH or OSHA as probable or suspected human carcinogens.

3. COMPOSITION AND INFORMATION ON INGREDIENTS

Hazardous Ingredients:	WT%	CAS#	EINECS #	Hazard Classification	Risk Phrases
Proprietary	40 - 65%	Proprietary	Proprietary	Not Classified	None
Aromatic Solvent Blend	10 - 25%	1330-20-7	215-535-7	[F] Flammable, [Xi] Irritant	R10, R38
Aluminum	10 - 25%	7429-90-5	231-072-3	[F] Flammable	R15, R17
Isobutyl Acetate	10 - 25%	110-19-0	203-745-1	[F] Flammable	R11, R66
4,4'-Diphenylmethane	5 - 15%	101-68-8	202-966-0	Carc. Cat. 3 [Xn] Harmful	R40, R20, R48/20, R36/37/38, R42/43
Diisocyanate (MDI)	1 - 5%	26447-40-5	247-714-0	Carc. Cat. 3 [Xn] Harmful	R40, R20, R48/20, R36/37/38, R42/43
Balance of other ingredients is less than 1% in concentration (or 0.1% for carcinogens, reproductive toxins, or respiratory sensitizers).					None



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NOTE: ALL WHMIS required information is included in appropriate sections based on the ANSI Z400.1-2004 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.

EYE EXPOSURE: If this product enter 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: Flash point 123°F (55.5°C)

AUTOIGNITION TEMPERATURE: ~426C (~799F)

FLAMMABLE LIMITS (in air by volume, %): Lower 0.9% Upper 7.0%

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: Flammable in presence of open flames and sparks. Vapor may travel considerable distance to source of ignition and flash back. Containers heated in a fire may swell and burst.

Explosion Sensitivity to Mechanical Impact: No Information Available

Explosion Sensitivity to Static Discharge: Yes

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



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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, Outside or detached storage is acceptable. Separate from incompatibles. Containers of this material may be hazardous when empty since they retain product residues (vapors, liquid); observe all warnings and precautions listed for the product. Storage Temperature (min/max): 32°F (0°C) / 110°F (43°C) Shelf Life: 24-months at 77°F (25°C). When unopened.

8. EXPOSURE CONTROLS - PERSONAL PROTECTION

Chemical Name	CAS#	ACGIH TLV	OSHA TWA
Proprietary	Proprietary	Not Established	Not Established
Aromatic Solvent Blend	1330-20-7	434 mg/m ³	435 mg/m ³
Aluminum	7429-90-5	10 mg/m ³	5 mg/m ³ Resp. Dust
Isobutyl Acetate	110-19-0	713 mg/m ³	700 mg/m ³
4,4'-Diphenylmethane	101-68-8	Not Established	Not Established
Diisocyanate (MDI)	26447-40-5	Not Established	Not Established

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: <40%

SOLUBILITY IN WATER: Non Soluble

VAPOR PRESSURE: <10mm @25°C

ODOR: Solvent Odor

APPEARANCE and COLOR: Metallic aluminum liquid

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

MELTING/FREEZING POINT: No Data

BOILING POINT: No Data

pH: No Data

SPECIFIC GRAVITY: 1.104 kg/l (8.012#/Gallon)



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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: Excess heat, ignition sources, incompatible materials.

11. TOXICOLOGICAL INFORMATION

TOXICITY DATA:

LD50/LC50:

No Data on mixture

Acute effects: stinging eyes. Symptoms may include: rubescence, edema, pain and lachrymation. Vapor inhalation may moderately irritate the upper respiratory tract. Contact with skin may cause slight irritation. Ingestion may cause health problems including 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.

This product contains highly volatile substances, which may cause serious depression of the central nervous system (CNS) and have negative effects, such as drowsiness, dizziness, slow reflexes, and narcosis.

CARCINOGENICITY:

-----\Cancer Lists\-----

Ingredient	---NTP Carcinogen---		
	Known	Anticipated	IARC Category
All Ingredients	No	No	None

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 the soil, this material may evaporate to a moderate extent. When released into water, this material may biodegrade to a moderate extent.

When released to water, this material is expected to quickly evaporate. When released into the water, this material is expected to have a half-life of less than 1 day. This material has a log octanol-water partition coefficient of less than 3.0. This material is not expected to significantly bioaccumulate. When released into the air, this material is expected to be readily degraded by reaction with photochemically produced hydroxyl radicals.

When released into the air, this material may be moderately degraded by photolysis. When released into the air, this material is expected to have a half-life between 1 and 10 days.

CHEMICAL EFFECT ON PLANTS, ANIMALS AND AQUATIC LIFE: This material has been tested by Wildlife, Fish, and Conservation Biology Dept., University of California, Davis and is not expected to be toxic to 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.

14. TRANSPORTATION INFORMATION



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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®
UN NUMBER: N.A.
D.O.T. HAZARD CLASS: N.A.
PACKING GROUP: N.A.
D.O.T. SHIPPING NAME: Paint
SPECIAL PROVISIONS: 640E

Domestic (Air) – Non Regulated Material (Containers less than 5-Liters)

International (Water, I.M.O.):

PRODUCT LABEL: Rust Bullet®
UN NUMBER: UN1263
D.O.T. HAZARD CLASS: 3
PACKING GROUP: III
D.O.T. SHIPPING NAME: Paint
PRODUCT RQ (Lbs): N.A.
EMS: F-E, S-E

International (Air, I.C.A.O.):

PRODUCT LABEL: Rust Bullet®
UN NUMBER: UN1263
D.O.T. HAZARD CLASS: 3
PACKING GROUP: III
D.O.T. SHIPPING NAME: Paint

AIR-CARGO: Packing Instructions: 366 Maximum Quantity:220L

AIR-PASS.: Packing Instructions: 355 Maximum Quantity:60L

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 considered as dangerous goods.

INTERNATIONAL MARITIME ORGANIZATION SHIPPING INFORMATION (IMO): This product is considered as dangerous goods.

EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY ROAD (ADR): This product is 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 are subject to the reporting requirements of Sections 302, 304, and 313 of Title III of the Superfund Amendments and Reauthorization Act.

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# 1330-20-7: 100 lb final RQ; 45.4 kg final RQ

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

OTHER U.S. FEDERAL REGULATIONS:

CLEAN WATER ACT:

CAS# 1330-20-7 is listed as a Hazardous Substance under the CWA.

STATE REGULATIONS:

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



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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 B-3: Combustible liquid with a flash between 37.8°C and 93.3°C, CLASS D-2A: Very Toxic Material, CLASS D-2B: Material causing other toxic effects.



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: [F] Flammable, [Xn] Harmful, [Xi] Irritant

EU RISK PHRASES: R10: Flammable; R38: Irritating to skin; R45: May cause cancer; R46: May cause heritable genetic damage; R65: Harmful may cause lung damage if swallowed; R66: Repeated exposure may cause skin dryness or cracking; R67: Vapors may cause drowsiness or dizziness.

EU SAFETY PHRASES: S9: Keep container in well ventilated space; 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; S51: Use only in a well ventilated area; S62: If swallowed, do not induce vomiting: seek immediate medical advice.



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: Listed

Australian Inventory of Chemical Substances (AICS): Listed

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

Japanese Existing National Inventory of Chemical Substances (ENCS): Listed

Philippines Inventory of Chemicals and Chemical Substances (PICCS): Listed

Swiss Giftliste List of Toxic Substances: Listed

U.S. TSCA: Listed

16. OTHER INFORMATION

Prepared By: Paul Eigbrett (MSDS Authoring Services)



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Approval Date: July 17, 2011

This information is furnished gratuitously and independent of the sales of the product without warranty, expressed or implied, except that it is accurate to the best knowledge of Rust Bullet®. NO WARRANTY, EITHER EXPRESS OR IMPLIED, WHETHER OF MERCHANTABILITY OF FITNESS OF ANY NATURE OR OTHERWISE WITH RESPECT TO THE PRODUCT OR TO THE DATA HEREIN IS MADE HEREUNDER. The data on this sheet are related only to the specific material designated herein. Rust Bullet assumes no legal responsibility for use or reliance upon these data. Rust Bullet shall not be responsible for any damages directly or indirectly resulting from the publication or use of or reliance upon data contained herein. Material Safety Data Sheets are available for all Rust Bullet products and you are urged to obtain those sheets for all those products that you buy, process, use or distribute. You may also have a legal obligation to advise anyone working with or exposed to such products of the information contained in the Material Safety Data Sheets.

END OF MSDS SHEET