

# SAFETY DATA SHEET

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

### Product identifier

**Product Name** Pulverize Weed Brush & Vine Killer

### Other means of identification

**Synonyms** None

### Recommended use of the chemical and restrictions on use

**Recommended Use** Weed Killer

**Uses advised against** No information available

### Details of the supplier of the safety data sheet

**Supplier Name** Messinas

**Supplier Address** 55 Willow St  
Washington  
NJ  
07882  
US

**Supplier Phone Number** Phone:908-320-7009  
Fax:908-320-7088

**Supplier Email** james@messinas.com

### Emergency telephone number

**Company Emergency Phone Number** 908-320-7009

## 2. HAZARDS IDENTIFICATION

### Classification

This chemical is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

### GHS Label elements, including precautionary statements



**Emergency Overview**

The product contains no substances which at their given concentration, are considered to be hazardous to health.

**Appearance** Clear

**Physical state** Liquid

**Odor** Soap

**Precautionary Statements - Prevention**

Not applicable

**Precautionary Statements - Response**

None

**Precautionary Statements - Storage**

None

**Precautionary Statements - Disposal**

None

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

3.68 % of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

PROLONGED OR REPEATED CONTACT MAY DRY SKIN AND CAUSE IRRITATION  
May cause slight eye irritation

**Interactions with Other Chemicals**

No information available.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

Chemical name	CAS No	Weight-%	Trade Secret
Third Party Formulation (TP # 1413409)	Trade Secret	1 - 5	*

\*The exact percentage (concentration) of composition has been withheld as a trade secret

**4. FIRST AID MEASURES**

**First aid measures**

- Eye contact** Rinse thoroughly with plenty of water, also under the eyelids. If symptoms persist, call a physician.
- Skin contact** Wash with soap and water.
- Inhalation** Remove to fresh air.



**Ingestion** Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person.

**Most important symptoms and effects, both acute and delayed**

**Most Important Symptoms and Effects** No information available.

**Indication of any immediate medical attention and special treatment needed**

**Notes to Physician** Treat symptomatically.

## 5. FIRE-FIGHTING MEASURES

**Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Unsuitable extinguishing media**

CAUTION: Use of water spray when fighting fire may be inefficient.

**Specific hazards arising from the chemical**

No information available.

**Hazardous Combustion Products**

Carbon oxides.

**Explosion Data**

**Sensitivity to Mechanical Impact** No.

**Sensitivity to Static Discharge** No.

**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.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment and emergency procedures**

**Personal precautions** Avoid contact with eyes.

**Environmental precautions**

**Environmental precautions** Refer to protective measures listed in Sections 7 and 8.

**Methods and material for containment and cleaning up**

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Soak up with inert absorbent material. Pick up and transfer to properly labeled containers.

## 7. HANDLING AND STORAGE

### Precautions for safe handling

**Handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep container tightly closed.

**Incompatible Products** Strong oxidizing agents. Acids. Chlorinated compounds.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

**Exposure Guidelines** The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the hazard classification of the mixture) which have an exposure limit applicable in the region for which this safety data sheet is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Third Party Formulation (TP # 1413409)	STEL: 400 ppm TWA: 200 ppm	TWA: 400 ppm TWA: 980 mg/m <sup>3</sup> (vacated) TWA: 400 ppm (vacated) TWA: 980 mg/m <sup>3</sup> (vacated) STEL: 500 ppm (vacated) STEL: 1225 mg/m <sup>3</sup>	IDLH: 2000 ppm 10% LEL TWA: 980 mg/m <sup>3</sup> TWA: 400 ppm STEL: 500 ppm STEL: 1225 mg/m <sup>3</sup>

*ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits NIOSH IDLH Immediately Dangerous to Life or Health*

**Other Exposure Guidelines** Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992) See section 15 for national exposure control parameters

### Appropriate engineering controls

**Engineering Measures** Showers  
Eyewash stations  
Ventilation systems

### Individual protection measures, such as personal protective equipment

**Eye/face protection** No special protective equipment required.

**Skin and body protection** No special protective equipment required.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**Hygiene Measures** Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES



**Physical and Chemical Properties**

<b>Physical state</b>	Liquid	<b>Odor</b>	Soap
<b>Appearance</b>	Clear	<b>Odor Threshold</b>	Not applicable
<b>Color</b>	No information available		

<b><u>Property</u></b>	<b><u>Values</u></b>	<b><u>Remarks</u></b>	<b><u>Method</u></b>
<b>pH</b>	8		
<b>Melting / freezing point</b>	No data available	None known	
<b>Boiling point / boiling range</b>	No data available	None known	
<b>Flash Point</b>	No data available	None known	
<b>Evaporation Rate</b>	No data available	None known	
<b>Flammability (solid, gas)</b>	No data available	None known	
<b>Flammability Limit in Air</b>			
<b>Upper flammability limit</b>	No data available		
<b>Lower flammability limit</b>	No data available		
<b>Vapor pressure</b>	No data available	None known	
<b>Vapor density</b>	No data available	None known	
<b>Specific Gravity</b>	.99		
<b>Water Solubility</b>	Soluble (> .?%)		
<b>Solubility in other solvents</b>	No data available	None known	
<b>Partition coefficient: n-octanol/water</b>	n/a		
<b>Autoignition temperature</b>	No data available	None known	
<b>Decomposition temperature</b>	No data available	None known	
<b>Kinematic viscosity</b>	No data available	None known	
<b>Dynamic viscosity</b>	No data available	None known	
<b>Explosive properties</b>	No data available		
<b>Oxidizing properties</b>	No data available		

**Other Information**

<b>Softening Point</b>	No data available
<b>VOC Content (%)</b>	No data available
<b>Particle Size</b>	No data available
<b>Particle Size Distribution</b>	

## 10. STABILITY AND REACTIVITY

### Reactivity

No data available.

### 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

None known based on information supplied.

### Incompatible materials

Strong oxidizing agents. Acids. Chlorinated compounds.

### Hazardous Decomposition Products

Carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

### Information on likely routes of exposure

#### Product Information

<b>Inhalation</b>	Specific test data for the substance or mixture is not available.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available.

#### Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Third Party Formulation (TP # 1413409)	= 1870 mg/kg ( Rat )	= 4059 mg/kg ( Rabbit )	= 72600 mg/m <sup>3</sup> ( Rat ) 4 h

### Information on toxicological effects

**Symptoms** No information available.

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

**Sensitization** No information available.



**Mutagenic Effects** No information available.

**Carcinogenicity** The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical name	ACGIH	IARC	NTP	OSHA
Third Party Formulation (TP # 1413409)		Group 3		X

*IARC (International Agency for Research on Cancer)*

*Group 3 - Not Classifiable as to Carcinogenicity in Humans*

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

*X - Present*

**Reproductive toxicity** No information available.

**STOT - single exposure** No information available.

**STOT - repeated exposure** No information available.

**Chronic Toxicity** No known effect based on information supplied.

**Target Organ Effects** Eyes. Respiratory system. Skin. Blood. Liver. Spleen. Systemic Toxicity. Cardiovascular system. Kidney.

**Aspiration Hazard** No information available.

#### Numerical measures of toxicity Product Information

The following values are calculated based on chapter 3.1 of the GHS document

**ATEmix (oral)**

93,500.00 mg/kg

**ATEmix (inhalation-dust/mist)**

3,630.00 mg/l

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Third Party Formulation (TP # 1413409)	96h EC50: > 1000 mg/L (Desmodesmus subspicatus) 72h EC50: > 1000 mg/L (Desmodesmus subspicatus)	96h LC50: > 1400000 µg/L (Lepomis macrochirus) 96h LC50: = 11130 mg/L (Pimephales promelas) 96h LC50: = 9640 mg/L (Pimephales promelas)		48h EC50: = 13299 mg/L

### Persistence and Degradability

No information available.

### Bioaccumulation

Chemical name	Log Pow
Third Party Formulation (TP # 1413409)	0.05

### Other adverse effects

No information available.

## 13. DISPOSAL CONSIDERATIONS

### Waste treatment methods

#### **Disposal methods**

This material, as supplied, is not a hazardous waste according to Federal regulations (40 CFR 261). This material could become a hazardous waste if it is mixed with or otherwise comes in contact with a hazardous waste, if chemical additions are made to this material, or if the material is processed or otherwise altered. Consult 40 CFR 261 to determine whether the altered material is a hazardous waste. Consult the appropriate state, regional, or local regulations for additional requirements.

#### **Contaminated Packaging**

Dispose of contents/containers in accordance with local regulations.

#### **California Waste Codes**

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This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical name	California Hazardous Waste
Third Party Formulation (TP # 1413409)	Toxic Ignitable

## 14. TRANSPORT INFORMATION

### DOT

Proper Shipping Name  
Hazard Class

NOT REGULATED  
NON-REGULATED  
N/A

### TDG

Not regulated





<u>MEX</u>	Not regulated
<u>ICAO</u>	Not regulated
<u>IATA</u>	Not regulated
<b>Proper Shipping Name</b>	NON REGULATED
<b>Hazard Class</b>	N/A
<u>IMDG/IMO</u>	Not regulated
<b>Hazard Class</b>	N/A
<u>RID</u>	Not regulated
<u>ADR</u>	Not regulated
<u>ADN</u>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Not determined
DSL	Not determined

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory  
 DSL/NDL - Canadian Domestic Substances List/Non-Domestic Substances List

### US Federal Regulations

#### **SARA 313**

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical name	CAS No	Weight-%	SARA 313 - Threshold Values %
Third Party Formulation (TP # 1413409) -		1 - 5	1.0

#### **SARA 311/312 Hazard Categories**

Should this product meet EPCRA 311/312 Tier reporting criteria at 40 CFR 370, refer to Section 2 of this SDS for appropriate classifications. Under the amended regulations at 40 CFR 370, EPCRA 311/312 Tier II reporting for the 2017 calendar year will need to be consistent with updated hazard classifications.

#### **CWA (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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

### US State Regulations

#### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

#### **U.S. State Right-to-Know Regulations**



This product may contain substances regulated by state right-to-know regulations.

Chemical name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Third Party Formulation (TP # 1413409)	X	X	X	X	

EPA Pesticide Registration Number 67702-18-82165

**International Regulations**

**Mexico**

**National occupational exposure limits**

Chemical name	Carcinogen Status	Exposure Limits
Third Party Formulation (TP # 1413409)		Mexico: TWA 400 ppm Mexico: TWA 980 mg/m <sup>3</sup> Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m <sup>3</sup>

Mexico - Occupational Exposure Limits - Carcinogens

**Canada**

**WHMIS Hazard Class**

Not determined

**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and Chemical Hazards - Personal Protection</b> X
<b>HMIS</b>	<b>Health Hazards</b> 1	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	

**Prepared By** Product Stewardship  
23 British American Blvd.  
Latham, NY 12110  
1-800-572-6501

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**Revision Note** No information available

**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**





Zhejiang Yonggao Battery Co., Ltd.

浙江永高电池股份有限公司

## MATERIAL SAFETY DATA SHEET

Printing date: DEC 20, 2018

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Expiry date: DEC 31, 2019

### SECTION 1 - Product and Company Identification

Product name: ALKALINE BATTERY

Chemical name: ALKALINE ZINC-MANGANESE DRY BATTERY

Chemical formula : Zn-MnO<sub>2</sub>

Manufacturer/supplier: ZHEJIANG YONGGAO BATTERY CO., LTD.

ADD.: No. 199, Yonggao Road, South Lake Economic Zone, Jiaxing, Zhejiang, China.

Tel: 0573-83645979 Fax: 0573-83645980



### SECTION 2 - Hazards Identification

*General advice:* The common known rules for handling of chemicals should be obeyed. These chemicals are contained in a sealed steel can. For consumer use, adequate hazard warnings are printed on both the package and the battery. Potential for exposure should not exist unless the battery leaks, is exposed to high temperatures or is mechanically or electrically abused. Concentrated potassium hydroxide contained is caustic. Anticipated potential leakage of potassium hydroxide is 2-20 ml, depending on battery size. Do not eat and drink batteries. Keep batteries away from small children.

*Physical-Chemical Hazards:* This preparation is not classified as dangerous according to the criteria of directive 99/45/EEC.

*Hazards to man:* If battery leaking, exposure to caustic ingredients may occur. Therefore, may cause sensitization by skin contact.

*Hazards to environment:* N.A..

### SECTION 3- Information On Ingredients

Chemical name	LR20	LR14	LR6	LR03	6LR61	3LR12	4LR25	4LR25-2 4LR20-2	CAS NO.
AVERAGE WEIGHT	145.0 g	70.0 g	22.8 g	11.4 g	47.0 g	175g	650g	1300g	/
ZINC	17.4%	16.9%	16.2%	13.9%	15.45%	13.4%	15.53%	15.6%	7440-66-6
MANGANESE DIOXIDE	43.09%	41.97%	37.57%	34.31%	36.46%	35.6%	38.45%	38.8%	1313-13-9
CARBON	2.93%	2.65%	3.27%	2.95%	3.29%	2.75%	2.61%	2.78%	/
STEEL	22.07%	21.07%	20.75%	25.89%	24.80%	14.90%	22.91%	29.32%	/
BRASS	1.10%	1.43%	2.41%	4.56%	3.64%	1.03%	0.66%	1.01%	12597-71-6
PLASTIC	1.17%	1.57%	1.71%	1.75%	1.06%	9.74%	2.07%	1.1%	/
PAPER	0.625%	1.36%	0.92%	0.96%	1.21%	0.53%	6.01%	0.82%	/



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POTASSIUM HYDROXID	3.66%	4.36%	6.3%	5.6%	5.55%	6.36%	3.27%	3.28%	1310-58-3
WATER	7.03%	7.50%	9.56%	8.51%	5.24%	14.9%	6.27%	6.42%	/
ZINC OXIDE	0.53%	0.50%	0.49%	0.42%	0.45%	0.53%	0.47%	0.51%	1314-13-2
MERCURY	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	<1ppm	7439-97-6
CADMIUM	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	<5ppm	7440-43-9
LEAD	<10ppm	<10ppm	<10ppm	<10ppm	<10ppm	<10ppm	<1000 ppm	<1000 ppm	7439-92-1
OTHER	0.39%	0.69%	0.82%	1.15%	2.85%	0.26%	1.75%	0.36%	/

#### **SECTION 4 First-Aid Measures**

*Inhalation:* In case of excessive in halation due to leaking batteries remove to fresh air. Obtain medical advice.

*Skin Contact:* If exposed to a leaking battery, remove contaminated clothing. Wash exposed areas with plenty of water and soap. IF irritation occurs, consult a physician.

*Eye contact:* Not anticipated due to size of batteries. Choking may occur with the smaller size batteries. If exposed to a leaking battery, rinse mouth and surrounding areas with running water for at least 15minutes. Give plenty of water to drink. Do not induce vomiting. Obtain medical advice.

#### **SECTION 5 - Fire Fighting Measures**

*Suitable extinguishing media:* Carbon dioxide, foam, dry chemical powder.

Extinguishing media not to be used: Never use a direct water jet.

*Exposure hazards from combustion products:* In case of fire, carbon monoxide and other toxic organic substances will be generated. Do not inhale fumes and smoke.

*Personal protective equipment:*

Wear full protective clothing. Use self-contained breathing apparatus

#### **SECTION 6 - Accidental Release Measures**

*Personal precautions:* Notify safety personnel of large spills. Caustic potassium hydroxide may be released from leaking or ruptured batteries. Avoid eye or skin contact and in halation of vapors. Increase the ventilation. Wear protective clothing. Keep unprotected persons away.

*Methods for cleaning up:* Collect spilled material with an insert standard absorbent like sand or silica. Care for well-ventilated conditions. Recycle or dispose of the materials in an appropriate way.

*Environmental precautions:* Avoid discharge and penetration into sewerage systems, waterways, pits, and cellars.





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## **SECTION 7 - Handling and Storage**

**General handling:** Obey the common known rules and precautions for handling with chemicals. Avoid mechanical and electrical abuse. Do not short battery or install incorrectly. Batteries may explode, pyrolyze or vent if disassembled. Crushed, recharged or exposed to high temperatures. Install batteries according to equipment instructions. Do not mix battery systems, such as alkaline and zinc-carbon. Replace all batteries in equipment at the same time. Do not carry batteries loose in pocket or bag. Do not remove battery labels.

**Storage:** Store product in well-filled, appropriate coated and tightly closed containers avoiding influence of oxygen/air, light and humidity, storage at room temperate.

## **SECTION 8 - Exposure Control/PPE**

*Exposition/Technical measures:* Atmospheric vapor concentrations must be minimized by adequate ventilation.

*Protection of hands, eyes and skin:* None required under normal use conditions. When handling leaking batteries, use neoprene, rubber or nitrile gloves and wear safety glasses to protect hands, eyes and skin.

*General safety and hygiene measures:* use only as directed.

## **SECTION 9 Physical / Chemical Properties**

*Physical state:* Stainless steel top battery Colour: Contents dark and gray in colour

*Odour:* N.A.

*Melting point:* N.A.

*Boiling point:* N.A.

*Flash point:* N.A.

*Explosion limit:* Not available

*Ignition temperature:* Not available

*Vapor pressure:* Not available

*Specific gravity:* N.A. *Solubility in water:* N.A.

*Solubility in other solvents:* N.A.

*PH value:* Not available

*Partition coefficient:* Not available

*Viscosity:* Not available



## **SECTION 10 - Stability and Reactivity**

*Thermal decomposition:* batteries may burst and release hazardous decomposition products when exposed to fire.

*Substances to avoid:* Strong Oxidation agents.

*Hazardous reactions:* Contents incompatible with strong oxidizing agents.

*Hazardous decomposition products:* Thermal degradation may produce hazardous fumes of zinc and manganese; hydrogen gas; caustic vapors of



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potassium hydroxide and other toxic by-products.

### **SECTION 11 - Toxicological Information**

Toxicity information is available on the battery ingredients noted in Section 2, but in general, N.A. to intact batteries. *Chronic health effects*: N.A.

### **SECTION 12 - Ecological Information**

Toxicity:

Not data available.

Persistence and degradability:

Not data available.

Bioaccumulative potential:

No data available.

Mobility in soil:

No data available.

### **SECTION 13 - Disposal Consideration**

*Product*: Dispose in accordance with appropriate regulations. If in doubt, contact your local government office concerned for information. Do not incinerate, since batteries may explode at excessive temperatures.

### **SECTION 14 - Transport Information**

The batteries are securely packed and protected against short-circuits. The “dry battery” is non-dangerous goods according to IMO IMDG CODE and meets both sea and air shipping standards. These batteries are not regulated by international agencies as hazardous materials or dangerous goods when shipped. A shipping name of “zinc-manganese dry battery” may be used on all domestic and international bills of lading. The batteries are fulfill IATA DGR 59th Edition requirement.

RID/ADR:Non-Hazardous for Transport:This substance is considered to be non-hazardous for transport.

IATA:Non-Hazardous for Air Transport:Non-hazardous for air transport.

IMO:Non-Hazardous for Sea Transport:Non-hazardous for sea transport.

### **SECTION 15 - Regulatory Information**

*Symbol*: N/A

*EC labeling*: None

*Risk phrases*: None

*Safety phrases*: None

Labeling is not required because alkaline batteries are classified as “articles” under the Dangerous Preparations Directive and as such are exempt from the requirements of the Directive.







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**SECTION 16 - Other Information**

The information on this Material Safety Data Sheet(MSDS) was obtained from current and reputable sources. However, the data is provided without any warranty; expressed or implied, regarding its correctness or accuracy. It is the user's responsibility to assume liability on loss, injury, damage, or expense resulting from improper use of this product. Any previous MSDS of this product mentioned above are hereby replaced with this new document. We urge you to make this information available as appropriate in your organization and to any others with whom you arrange to handle this product.

