



Hong Kong Government Recognized Service Supplier  
Approved Laboratory of The Woolmark Company

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American National Standards Institute  
American Society for Testing and Materials  
British Standards Institute

Hong Kong Association for Testing, Inspection and Certification Limited  
Hong Kong Toys Council

TEST REPORT

NUMBER: HKGH00807390 S1

APPLICANT: TOYSMITH  
5110 FRONTAGE ROAD AUBURN,  
WA98001  
ATTN: BURKE WILLIAMS

DATE: Jan 14, 2009

*THIS IS TO SUPERSEDE REPORT NO.  
HKGH00807390 DATED Jan 02, 2009*

SAMPLE DESCRIPTION:

ONE (1) SUBMITTED SAMPLE SAID TO BE **FIZZY TINTS**.  
COLOR : #10 RED.

\*\*\*\*\*

TESTS CONDUCTED:

AS REQUESTED BY THE APPLICANT, FOR DETAILS REFER TO ATTACHED PAGE(S)

\*\*\*\*\*

FOR AND ON BEHALF OF :  
INTERTEK TESTING SERVICES HK LTD.

KAREN S.C. NG  
GENERAL MANAGER





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TEST REPORT

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TESTS CONDUCTED

1 TOTAL LEAD (Pb) CONTENT

WITH REFERENCE TO US EPA METHOD 6010/6020, BY DRY ASHING AND ACID DIGESTION,  
FOLLOWED BY INDUCTIVELY COUPLED PLASMA MASS SPECTROMETRY DETERMINATION.

RESULT : 0.082 ppm

LIMIT : 7.5 ppm

REMARK : ppm = PARTS PER MILLION OR MILLIGRAMS PER KILOGRAM

THE ABOVE LIMIT WAS QUOTED FROM THE CONSENT JUDGEMENT NO. BC-352903  
FOR COSMETIC PRODUCT BASED ON THE CALIFORNIA PROPOSITION 65.

DATE SAMPLE RECEIVED : DEC 18, 2008

TESTING PERIOD : DEC 22, 2008 TO DEC 24, 2008

\*\*\*\*\*

END OF REPORT





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To: FACE ART INDUSTRIAL LIMITED Ref: FC-090-0311  
Attention: W.S. LAM. Date: Jan 14, 2009

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Re : Report Revision Notification

Intertek Testing Services Report Number HKGH00807390 Dated  
Jan 02, 2009

Please be informed that all the content recorded in the above captioned  
report will be void. This captioned report is now supersede by a revised  
Intertek Testing Services Report, HKGH00807390 S1

Thank you for your attention.

FOR AND ON BEHALF OF :  
INTERTEK TESTING SERVICES HK LTD.

KAREN S.C. NG  
GENERAL MANAGER

# MSDS - Sodium Bicarbonate Baking Soda Tablets

## Section 1. Product Identification

Synonyms: Sodium hydrogen carbonate; sodium acid carbonate; baking soda; bicarbonate of soda

## Section 2. Product Identification

Sodium Bicarbonate Tablets

CAS Number: 144-55-8

Not hazardous under OSHA Standard CFR 1910.1200

Not a WHMIS controlled substance

## Section 3. Hazards Identification

Tablets, can have residual dust

No odor

Not a fire hazard

No significant health or environmental effects associated with this material

WHMIS Rating: Health: 0 Fire: 0 Reactivity: 0

### Potential Health Effects

**Eye:** Not an eye irritant

**Skin Contact:** Not a skin irritant

**Ingestion:** Material is practically non-toxic. Small amounts (1-2 tablespoons) swallowed during normal handling operations are not likely to cause injury as long as the stomach is not overly full; swallowing larger amounts may cause injury (see Note in Section 8).

**Inhalation:** Not known

Sub-chronic Effects/Carcinogenicity: Based on published studies on its effects in animals and humans, sodium bicarbonate is not teratogenic. Only known sub-chronic effect is that of a marked systemic alkalosis. The material is not listed as a carcinogen or potential carcinogen by IARC, OSHA, ACGIH, NTP or NIOSH.

## Section 4. First Aid Measures

**Eyes:** Check for and remove contacts. Flood eyes with clean flowing water, low pressure and lukewarm (not hot) if possible, occasionally lifting eyelids.

**Ingestion:** If large amounts of this material are swallowed, do not induce vomiting. Administer water if person is conscious. Never give anything by mouth to an unconscious person.

**Note to Physician:** Large doses may produce systemic alkalosis and expansion in extra cellular fluid volume with oedema.

## Section 5. Fire Fighting Measures

### Flammable Properties

Flashpoint: Not combustible

Method Used: Not applicable

### Flammable Limits

LFL: Not applicable

UFL: Not applicable

**Extinguishing Media:** Non-combustible material. Use extinguishing media appropriate for surrounding fire.

**Fire Fighting Instructions:** Carbon Dioxide may be generated making necessary the use of a self contained breathing apparatus (SCBA) and full protective equipment (Bunker Gear). Carbon dioxide is an asphyxiant at levels over 5% w/w. Sodium oxide, another thermal decomposition product existing at temperatures above 156F is a respiratory, eye and skin irritant. Avoid inhalation, eye and skin contact with sodium oxide dusts.

Unusual Fire and Explosion Hazards: Not known

## **Section 6. Accidental Release Measures**

Scoop up into dry, clean containers. Wash away uncontaminated residue with water.

## **Section 7. Handling and Storage**

Store in cool, dry areas and away from incompatible substances (see section 10).

Sodium Bicarbonate reacts with acids to yield carbon dioxide gas which can accumulate in confined spaces. Do not enter confined spaces until they have been well ventilated and carbon dioxide and oxygen levels have been determined to be safe.

## **Section 8. Exposure Controls/Personal Protection**

**Respiratory Protection:** Dust mask required if total dust level exceeds 10 mg/m<sup>3</sup>

**Protective Gloves:** General purpose for handling dry product. Impervious gloves when working with solutions.

**Eye Protection:** Safety glasses when handling bulk material or when dusts are generated

Other Protective Clothing or Equipment: Full cover clothing. Apron where splashing may occur when working with solutions.

## **Section 9. Physical and Chemical Properties**

Appearance: Tablets

Odor: None

Physical State: Solid

pH as is: Not applicable

pH (1% Soln. w/v): 8.2

Vapor Pressure: Not applicable

Vapor Density: Not applicable

Boiling Point: Not applicable

Freezing/Melting Point: Not applicable

Solubility in Water: 8.6 g/100 ml @ 68F

Specific Gravity (Water = 1): 2.2

Apparent Density: (g/cc): Approximately 1

% Volatile: Not applicable

Volatile Organic Compounds: Not applicable

Molecular Weight: 84.02

## **Section 10. Stability and Reactivity**

**Chemical Stability:** Stable

**Conditions to Avoid:** Temperatures above 65C (150F)

**Incompatibility with Other Materials:** Reacts with acids to yield carbon dioxide. Also may yield free caustic in presence of lime dust. (CaO) and moisture (i.e. water, perspiration).

**Hazardous Decomposition Products:** Heating above 100C may cause dangerous levels of carbon dioxide gas to be present in confined spaces. Avoid inhalation, eye and skin contact with sodium oxide.

**Hazardous Polymerization:** Not applicable

## **Section 11. Toxicological Information**

**Eye Effects:** The material was minimally irritating to unwashed eyes and practically non irritating to washed eyes (rabbit).

**Skin Effects:** Not a skin irritant or dermally toxic. Not a contact sensitizer

**Acute Oral Effects:** Acute Oral- rat LD = 7.3 g/kg

**Acute Inhalation:** Lc50 (rat) > 4.74 mg/l

## **Section 12. Ecological Information**

Aquatic Toxicity: Daphids - EC50 = 4100 mg/l Bluegill - LC50 = 7100 mg/l Rainbow Trout - LC50 = mg/l

Persistence: This product is not expected to persist in the environment

Bio Accumulation: This product is not expected to bio-accumulate

## **Section 13. Disposal Considerations**

Bury in a secured landfill in accordance with all local, state and federal environmental regulations.

Empty containers may be incinerated or discarded as general trash.

## **Section 14 Transportation Information**

D.O.T. Shipping Name: Not regulated

Technical Shipping Name: Sodium Bicarbonate

D.O.T. Hazard Class: None

## **Section 15. Regulatory Information**

Clean Air Act Section 611: Material neither contains nor is it manufactured with ozone depleting substances (ODS).

Federal Water Pollution Control Act (40 CDR 401,15): Material contains no intentionally added or detectable (contaminant) levels of EPA priority toxic pollutants.

Food and Drug Administration: Generally Recognized As Safe (GRAS) direct food additive (21 CFR 184.1736)

OSHA: Not hazardous under 29 CFR 1910.1200

RCRA: Not a hazardous material or a hazardous waste by listing or characteristic

### **Disclaimer**

This information contained herein is accurate to the best of our knowledge. We do not suggest or guarantee that any hazards listed herein are the only ones which exist. We make no warranty of any kind, expressed or implied, concerning the safe use of this material in your process or combination with any other substances. Effects can be aggravated by other materials and/or this material may aggravate or add to the effects of other materials. This material may be released from gas, liquid or solid materials made directly or indirectly from it. User has the sole responsibility to determine the suitability of the materials for any use and the manner of use contemplated. User must meet all applicable safety and health standards.

## Section 1 Chemical Product and Company Identification

Page E1 of E2

**HOME SCIENCE TOOLS**

665 Carbon Street  
 Billings, MT 59102  
 800-860-6272  
 www.homesciencetools.com

**CHEMTREC 24 Hour Emergency USA**  
**Phone Number (800) 424-9300**  
**1 703-741-5500 (from anywhere in the world).**  
 For laboratory and industrial use only.  
 Not for drug, food or household use.

<b>Product</b>	<b>MAGNESIUM SULFATE, HEPTAHYDRATE</b>
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<b>Synonyms</b>	Epsom Salts
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## Section 2 Hazards Identification

**This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.**

**Signal word:** None

**Pictograms:** No symbol required

**Target organs:** None known

**GHS Classification:** Not classified

**GHS Label information: Hazard statement:** Not classified

**Precautionary statement:** Not classified

**Supplementary information:**

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / Information on Ingredients

Chemical Name	CAS #	%	EINECS
Magnesium sulfate	10034-99-8	100%	231-298-2 (anhydrous)

## Section 4 First Aid Measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire Fighting Measures

**Suitable Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Section 6 Accidental Release Measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 Exposure Controls / Personal Protection

Exposure Limits:	Chemical Name	ACGIH (TLV)	OSHA (PEL)	NIOSH (REL)
	Magnesium sulfate	None established	None established	None established

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical &amp; Chemical Properties

<b>Appearance:</b> Solid, White crystalline powder <b>Odor:</b> No odor. <b>Odor threshold:</b> Data not available. <b>pH:</b> Data not available. <b>Melting / Freezing point:</b> Data not available <b>Boiling point:</b> Data not available <b>Flash point:</b> Data not available	<b>Evaporation rate ( = 1):</b> Data not available <b>Flammability (solid/gas):</b> Data not available. <b>Explosion limits: Lower / Upper:</b> Data not available <b>Vapor pressure (mm Hg):</b> Data not available <b>Vapor density (Air = 1):</b> Data not available <b>Relative density (Specific gravity):</b> 2.7 <b>Solubility(ies):</b> Appreciable in water.	<b>Partition coefficient:</b> Data not available <b>Auto-ignition temperature:</b> Data not available <b>Decomposition temperature:</b> Data not available <b>Viscosity:</b> Data not available. <b>Molecular formula:</b> MgSO <sub>4</sub> ·7H <sub>2</sub> O <b>Molecular weight:</b> 246.48
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## Section 10 Stability &amp; Reactivity

**Chemical stability:** Stable **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures and heat. Protect from moisture.

**Incompatible materials:** None known.

**Hazardous decomposition products:** Sulfur oxides.

## Section 11 Toxicological Information

**Acute toxicity:** Data not available

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

Inhalation: May cause respiratory irritation.

Ingestion: Ingestion may cause nausea, vomiting and diarrhea.

Skin: Contact with skin may cause irritation.

Eyes: Contact with eyes may cause irritation.

**Signs and symptoms of exposure:** To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

**Additional information: RTECS #:** Data not available

## Section 12 Ecological Information

**Toxicity to fish:** Gambusia affinis (fish, fresh water), LC50: 15,500 mg/L/24 hours

**Toxicity to daphnia and other aquatic invertebrates:** Daphnia magna (Crustacea), EC50: 1,700 mg/L/24 hours

**Toxicity to algae:** Scenedesmus subspicatus (Algae), EC50: 2,700 mg/L/ 72 hours

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal Considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport Information (US DOT / CANADA TDG)

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Not applicable

**2016 ERG Guide #:** Not applicable

## Section 15 Regulatory Information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

Component	TSCA	CERLCA (RQ)	RCRA code	DSL	NDSL	CA Prop 65
Magnesium sulfate	Listed	Not listed	Not listed	Listed	Not listed	This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

## Section 16 Other Information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



# SAFETY DATA SHEET

Issuing Date No data available

Revision Date 13-May-2015

Revision Number 2



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

### Product identifier

**Product Name** permanent marker black ink

### Other means of identification

**Synonyms** None

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

**Recommended Use** Pens

**Uses advised against** No information available

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

**Supplier Name** Wenzhou Aihao Pen Trade Co., Ltd

**Supplier Address** No.128, Wenchang Road, Longwan Zone  
Wenzhou  
Zhejiang  
325011  
CN

**Supplier Phone Number** Phone:86-13524536325  
Contact Phone86-021-68622126

**Supplier Email** 732314056@qq.com

### Emergency telephone number

## 2. HAZARDS IDENTIFICATION


### Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 1
Germ cell mutagenicity	Category 2
Specific target organ toxicity (single exposure)	Category 3



**GHS Label elements, including precautionary statements****Emergency Overview**

<b>Signal word</b>	<b>Danger</b>	
<b>Hazard Statements</b> Causes skin irritation Causes serious eye damage Suspected of causing genetic defects May cause drowsiness or dizziness		
		
<b>Appearance</b> Black	<b>Physical state</b> Solid containing liquid	<b>Odor</b> Alcohol

**Precautionary Statements - Prevention**

Obtain special instructions before use  
Do not handle until all safety precautions have been read and understood  
Use personal protective equipment as required  
Wash face, hands and any exposed skin thoroughly after handling  
Avoid breathing dust/fume/gas/mist/vapors/spray  
Use only outdoors or in a well-ventilated area

**Precautionary Statements - Response**

IF EXPOSED OR CONCERNED: Get medical advice/attention  
Specific treatment (see supplemental first aid instructions on this label)

**Eyes**

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

**Skin**

IF ON SKIN: Wash with plenty of soap and water  
If skin irritation occurs: Get medical advice/attention  
Take off contaminated clothing and wash before reuse

**Inhalation**

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing

**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

**Hazards not otherwise classified (HNOC)**

Not applicable

**Unknown Toxicity**

10.6% of the mixture consists of ingredient(s) of unknown toxicity

**Other information**

May be harmful if swallowed  
Toxic to aquatic life with long lasting effects

**Interactions with Other Chemicals**

Use of alcoholic beverages may enhance toxic effects.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%	Trade Secret
Third Party Formulation (TP # 1196598)	Proprietary	30 - 60	*
Third Party Formulation (TP # 1196598)	Proprietary	15 - 40	*
Third Party Formulation (TP # 1196598)	Proprietary	1 - 5	*
Third Party Formulation (TP # 1196598)	Proprietary	1 - 5	*

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

### 4. FIRST AID MEASURES

**First aid measures****General Advice**

Show this safety data sheet to the doctor in attendance.

**Eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Remove contact lenses, if present and easy to do. Continue rinsing. Do not rub affected area. Seek immediate medical attention/advice.

**Skin contact**

Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.

**Inhalation**

Remove to fresh air. Get medical attention immediately if symptoms occur.

**Ingestion**

Rinse mouth immediately and drink plenty of water. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a physician.

**Self-protection of the first aider**

Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wear personal protective clothing (see section 8).

**Most important symptoms and effects, both acute and delayed****Most Important Symptoms and Effects**

Burning sensation. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

**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.

#### **Uniform Fire Code**

Irritant: Solid

### **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 skin, eyes or clothing. Ensure adequate ventilation. Use personal protective equipment as required.

#### **Other Information**

Refer to protective measures listed in Sections 7 and 8.

### **Environmental precautions**

#### **Environmental precautions**

Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

### **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**

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 skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse.

### Conditions for safe storage, including any incompatibilities

**Storage** Keep containers tightly closed in a dry, cool and well-ventilated place. Store locked up. Keep out of the reach of children.

**Incompatible Products** Strong acids. Strong oxidizing agents. Strong bases.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

#### Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Third Party Formulation (TP # 1196598)	STEL: 100 ppm TWA: 50 ppm	(vacated) TWA: 100 ppm (vacated) TWA: 360 mg/m <sup>3</sup> (vacated) STEL: 150 ppm (vacated) STEL: 540 mg/m <sup>3</sup>	TWA: 100 ppm TWA: 360 mg/m <sup>3</sup> STEL: 150 ppm STEL: 540 mg/m <sup>3</sup>
Third Party Formulation (TP # 1196598)	TWA: 100 ppm	TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> (vacated) TWA: 200 ppm (vacated) TWA: 500 mg/m <sup>3</sup> (vacated) STEL: 250 ppm (vacated) STEL: 625 mg/m <sup>3</sup>	IDLH: 800 ppm TWA: 200 ppm TWA: 500 mg/m <sup>3</sup> STEL: 250 ppm STEL: 625 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 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** None required for consumer use. If there is a risk of contact: Tight sealing safety goggles.

**Skin and body protection** None required for consumer use. Wear protective gloves and protective clothing. Long sleeved clothing. Impervious gloves.

**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. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or

smoke when using this product. Wash hands before breaks and immediately after handling the product.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### Physical and Chemical Properties

<b>Physical state</b>	Solid containing liquid	<b>Odor</b>	Alcohol
<b>Appearance</b>	Black	<b>Odor Threshold</b>	No information available
<b>Color</b>	No information available		

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

### Other Information

Softening Point	No data available
VOC Content (%)	No data available
Particle Size	No data available
Particle Size Distribution	

## 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 acids. Strong oxidizing agents. Strong bases.

### 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. May cause irritation of respiratory tract. May cause drowsiness and dizziness.
<b>Eye contact</b>	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Severely irritating to eyes. Causes serious eye damage. May cause burns. May cause irreversible damage to eyes.
<b>Skin contact</b>	Specific test data for the substance or mixture is not available. Expected to be an irritant based on components. Irritating to skin. Prolonged contact may cause redness and irritation.
<b>Ingestion</b>	Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

#### Component Information

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Third Party Formulation (TP # 1196598)	= 5200 mg/kg ( Rat )	= 13 g/kg ( Rabbit )	= 54.6 mg/L ( Rat ) 4 h > 24 mg/L ( Rat ) 1 h
Third Party Formulation (TP # 1196598)	= 1870 mg/kg ( Rat )	-	> 13548 ppm ( Rat ) 4 h
Third Party Formulation (TP # 1196598)	= 1219 mg/kg ( Rat )	-	-

### Information on toxicological effects

#### Symptoms

Erythema (skin redness). May cause redness and tearing of the eyes. May cause blindness. Burning. Inhalation of high vapor concentrations may cause symptoms like

headache, dizziness, tiredness, nausea and vomiting.

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

<b>Sensitization</b>	No information available.
<b>Mutagenic Effects</b>	There is no data available for this product. Contains a known or suspected mutagen.
<b>Carcinogenicity</b>	The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
Third Party Formulation (TP # 1196598)		Group 3		

*IARC (International Agency for Research on Cancer)  
Group 3 - Not Classifiable as to Carcinogenicity in Humans*

<b>Reproductive toxicity</b>	No information available.
<b>STOT - single exposure</b>	No information available.
<b>STOT - repeated exposure</b>	No information available.
<b>Chronic Toxicity</b>	Contains a known or suspected mutagen. Possible risk of irreversible effects. Carcinogenic potential is unknown.
<b>Target Organ Effects</b>	Respiratory system. Eyes. Skin. May affect the genetic material in germ cells (sperm and eggs). Central Nervous System (CNS). Gastrointestinal tract (GI).
<b>Aspiration Hazard</b>	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)**  
2,458.00 mg/kg  
**ATEmix (dermal)**  
23,718.00 mg/kg (ATE)  
**ATEmix (inhalation-dust/mist)**  
99.60 mg/l



## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Toxic to aquatic life with long lasting effects.

Chemical Name	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Third Party Formulation (TP # 1196598)		96h LC50: = 20.8 g/L (Pimephales promelas) 96h LC50: 4600 - 10000 mg/L (Leuciscus idus)		48h EC50: = 23300 mg/L
Third Party Formulation (TP # 1196598)		96h LC50: = 4480 mg/L (Pimephales promelas)	EC50 = 17700 mg/L 5 min EC50 = 45000 mg/L 5 h EC50 = 8686 mg/L 15 min EC50 = 980 mg/L 12 h	48h EC50: 3339 - 3977 mg/L 48h EC50: = 3642 mg/L
Third Party Formulation (TP # 1196598)	72h EC50: = 36 mg/L (Desmodesmus subspicatus)	96h LC50: = 5.6 mg/L (Cyprinus carpio)		48h EC50: = 5.2 mg/L

### Persistence and Degradability

No information available.

### Bioaccumulation

Chemical Name	Log Pow
Third Party Formulation (TP # 1196598)	-0.437
Third Party Formulation (TP # 1196598)	0.34
Third Party Formulation (TP # 1196598)	2

### 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 Hazardous Waste Codes 331**

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 # 1196598)	Toxic Ignitable



## 14. TRANSPORT INFORMATION

<b>DOT</b>	NOT REGULATED
<b>Proper Shipping Name</b>	NON REGULATED
<b>Hazard Class</b>	N/A
<b>TDG</b>	Not regulated
<b>MEX</b>	Not regulated
<b>ICAO</b>	Not regulated
<b>IATA</b>	Not regulated
<b>Proper Shipping Name</b>	NON REGULATED
<b>Hazard Class</b>	N/A
<b>IMDG/IMO</b>	Not regulated
<b>Hazard Class</b>	N/A
<b>Marine Pollutant</b>	Product is a marine pollutant according to the criteria set by IMDG/IMO
<b>RID</b>	Not regulated
<b>ADR</b>	Not regulated
<b>ADN</b>	Not regulated

## 15. REGULATORY INFORMATION

### International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

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

<b>Acute Health Hazard</b>	Yes
<b>Chronic Health Hazard</b>	Yes
<b>Fire Hazard</b>	No
<b>Sudden release of pressure hazard</b>	No
<b>Reactive Hazard</b>	No

#### **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**

Chemical Name	New Jersey	Massachusetts	Pennsylvania	Rhode Island	Illinois
Third Party Formulation (TP # 1196598)	X	X	X		
Third Party Formulation (TP # 1196598)	X	X	X		

**International Regulations****Mexico****National occupational exposure limits**

Component	Carcinogen Status	Exposure Limits
Third Party Formulation (TP # 1196598) ( 15 - 40 )		Mexico: TWA 200 ppm Mexico: TWA 500 mg/m <sup>3</sup> Mexico: STEL 250 ppm Mexico: STEL 625 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> 2	<b>Flammability</b> 0	<b>Instability</b> 0	<b>Physical and Chemical Hazards - Personal Protection</b> X
<b>HMIS</b>	<b>Health Hazards</b> 3 *	<b>Flammability</b> 0	<b>Physical Hazard</b> 0	

**Chronic Hazard Star Legend** \* = Chronic Health Hazard

<b>Prepared By</b>	Product Stewardship 23 British American Blvd. Latham, NY 12110 1-800-572-6501
<b>Revision Date</b>	13-May-2015
<b>Revision Note</b>	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**

