

# SAFETY DATA SHEET

## GHS HCS-2012 §1910.1200

Version 2  
Product Name Butyl Rubber Cenway BIIR

Issue Date 26 May 2017  
Revision date 16 June /2017

*Read the entire SDS for a complete hazard assessment.*

### Section 1. Product and Company Identification

#### 1.1 Product Identifiers:

**Product Family Name:** Butyl Rubber Cenway BIIR

**Product Grades:** Butyl Rubber BIIR 2301 (BROMOBUTYL RUBBER)

Butyl Rubber BIIR 2302 (BROMOBUTYL RUBBER)

Butyl Rubber BIIP 2502 (BROMOBUTYL RUBBER)

**Chemical Name:** (For rubber)-butadiene polymer with 2-methyl-1 propene brominated

**Synonyms:** Bromobutyl rubber mixture

CAS RN mixture EC # No Data

**1.2 Recommended use:** Bromobutyl rubber can be widely used for the tire inner liner, medical stoppers, corrosion-resistance lining, protective clothing, shoe soles, TPV industry, etc.

**1.3 Restricted Use:** Commercial use only

#### 1.4 Manufacturer and Supplier:

##### Manufacturer

Zhejiang Cenway Materials Co., LTD  
Cofferdam Interior,  
Zhapu Development Zone Phase Three  
Jianxing Port Area, Zhejiang, P. R. China  
E-mail:Runlin.ning@Cenwaymaterials.com

Website: Cenwaymaterials.com

Phone: Non-emergency 86-573-85520670

##### Distributor

R. E. Carroll, Inc.  
1570 North Olden Avenue  
Trenton, NJ 08638-3204  
USA

Responsible Party: John Boruta  
QA/Compliance Mgr

E-mail: [johnb@recarroll.com](mailto:johnb@recarroll.com)

Website: [www.recarroll.com](http://www.recarroll.com)

Phone: 609-695-6211

Fax: 609-695-0102

Email: [johnb@recarroll.com](mailto:johnb@recarroll.com)

#### 1.5 Emergency telephone number:

In China: +86-573-85520670

In the US: For a transport accident or leak, fire or major spill, call CHEMTREC, (800) 424-9300.

For International CHEMTREC assistance, call 1-703-527-3887 (collect calls accepted).

### Section 2. Hazards Identification

#### 2.1 Globally Harmonized System (GHS) Hazard Classification:

OSHA Classification in accordance with 29 CFR 1910 (OSHA HCS): Hazardous - Combustible Dust.

GHS Classification: Not classified as hazardous.

This SDS meets the requirements of GHS Revision 3.

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### 2.2 Label elements including precautionary:

**Symbol:** No pictogram needed.  
**Signal word:** Warning!  
**Hazard Statement:** May form combustible dust concentrations in air (during processing/handling.)  
May irritate eyes, skin, and respiratory passages.

#### Precautionary Statements

##### Prevention:

Wear protective gloves/protective clothing/eye protection/face protection.  
Keep away from all ignition sources. No smoking. Prevent dust accumulations to minimize explosion hazard.  
Use explosion-proof (electrical/ventilation/lighting) equipment. Use non-sparking tools.  
Take action to prevent static discharge.

##### Response:

If exposed or concerned: Get medical advice/attention.

If in eyes: Immediately flush eyes thoroughly with water for several minutes. Remove contact lenses after one to two minutes and continue flushing for several more minutes. If redness, itching or burning sensation develops, seek medical attention.

If on skin: Wash with plenty of soap and water. If irritation or rash occurs: Get medical advice/attention.

If inhaled: Remove victim to fresh air. If a cough or other respiratory symptoms develop, consult medical personnel.

If swallowed: DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Gently wipe or rinse the inside of the mouth with water. Sips of water can be given. If symptoms persist, contact a poison control center, emergency room, or physician for treatment information.

##### Storage:

Store in accordance with local regional national international regulations. Ground/bond container and receiving equipment.

##### Disposal:

Dispose of contents/container in accordance with local regional national international regulations.

### 2.3 Other hazards which are not included in the classification criteria:

May cause irritation to respiratory tract and mucus membranes and irritation to eyes and skin. Hot process fumes may give off vapors that cause respiratory irritation. Particles may scratch eyes/ cause mechanical irritation.

## Section 3. Composition/Information on Ingredients

### Chemical nature

Polymer

Chemical Name	CAS No	Weight-%
Butyl rubber brominated (-Methyl-1,3-butadiene polymer with 2-methyl-1 propene brominated)	68441-14-5	96.55
Antioxidant	6683-19-8	0.05
Calcium distearate	1592-23-0	2.1
Epoxidized soybean oil	8013-07-8	1.3

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### Section 4. First-Aid Measures

General advice: Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### 4.1 Inhalation:

Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen and continue to monitor. Consult medical attention.

#### 4.2 Skin contact:

Wash skin with plenty of soap and water. If symptoms persist, seek medical attention. Wash contaminated clothing before use.

Contact with hot product: Immediately flush area with large amounts of cold water. Seek medical attention immediately.

#### 4.3 Eye contact:

Immediately flush eyes thoroughly with water for several minutes. Remove contact lenses after one to two minutes and continue flushing for several more minutes. If redness, itching or burning sensation develops, seek medical attention.

#### 4.4 Ingestion:

DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Gently wipe or rinse the inside of the mouth with water. Sips of water can be given. If symptoms persist, contact a poison control center, emergency room, or physician for treatment information.

#### 4.5 Acute and delayed symptoms/effects:

Eye Contact: Excessive exposure may cause temporary irritation to eyes.

Skin Contact: No irritation.

Ingestion: Harmful effects not anticipated from swallowing small amounts. May be harmful in large amounts.

Inhalation: Excessive exposure may cause irritation to respiratory tract.

Chronic health effects: This product has no known chronic effects.

Relevant routes of exposure: Eye, skin, inhalation.

#### 4.6 Indication of immediate medical attention and notes for physicians:

Persons with pre-existing skin, eye, or respiratory conditions may be at an increased risk from the irritant properties of this material. Attending physician should treat exposed patients symptomatically.

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### Section 5. Fire-Fighting Measures

#### 5.1 Extinguishing media:

Suitable extinguishing media:

Non-Flammable but may burn at higher temperatures. Use extinguishing media appropriate to surrounding fire and to protect personnel. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents.

Unsuitable extinguishing media:

For this product, no limitations of extinguishing agents are given. Forceful application of fire extinguishing agents or water spray may spread burning material.

#### 5.2 Special hazards arising from the chemical:

Unusual fire and explosion hazards: Concentrated dust may present an explosion hazard.

Hazardous Combustion Products:

During a fire, smoke may contain the original material in addition to combustion products of varying composition, which may be toxic and/or irritating.

#### 5.3 Special protective equipment and precautions for firefighters:

##### Fire Fighting Procedures:

Keep personnel away. Isolate fire and deny unnecessary entry. Do not apply direct water stream. Use fine water spray or foam. Cool surroundings with water to localize fire zone. Dust explosion hazard may result from forceful application of fire extinguishing agents.

##### Special Protective Equipment for Firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

### Section 6. Accidental Release Measures

#### 6.1 Personal precautions, protective equipment and emergency procedures:

Use personal protective equipment. Remove all sources of ignition. Avoid breathing vapors, mist, or gas. Avoid skin and eye contact. Evacuate personnel to safe areas. Spilled material may cause a slipping hazard. Use appropriate safety equipment. See Section 8 for information on personal protection equipment.

#### 6.2 Environmental precautions and protective procedures:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains, sewers, waterways, and/or groundwater.

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### 6.3 Methods and material for containment and cleaning up:

Contain spilled material if possible. Sweep up using non-sparking tools. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

**6.4. Reference to Other Sections** See heading 8, Exposure Controls and Personal Protection.

## Section 7. Handling and Storage

### 7.1 Precautions for safe handling:

As with all organic dusts, fine particles suspended in air in critical proportions and in the presence of an ignition source may ignite and/or explode. Dust may be sensitive to ignition by electrostatic discharge, electrical arcs, sparks, welding torches, cigarettes, open flame, or other significant heat sources. Follow procedures specified in the National Fire Protection Association Codes and Standards for handling combustible dusts. No smoking, open flames or sources of ignition in handling and storage area. Good housekeeping and controlling of dusts are necessary for safe handling of product. When transferring material, use proper grounding to avoid electrical sparks. Avoid breathing process fumes. Use with adequate ventilation. Do not eat, drink, and/or smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas.

### 7.2 Conditions for safe storage (including any incompatibilities):

Store in cool place. Avoid heat and ignition sources. Keep container tightly closed in a dry and well-ventilated place. Store in accordance with good manufacturing practices.

## Section 8. Exposure Controls and Personal Protection

Consult with a Health and Safety Professional for specific selections.

### 8.1 Control parameter:

#### OCCUPATIONAL EXPOSURE LIMITS:

Permissible Exposure Limit (PEL): Table Z-1 8-Hr Time Weighted Avg. (TWA)

OSHA PEL: TWA 15mg/m <sup>3</sup> (Total Dust),	TWA 5mg/m <sup>3</sup> (Respirable Fraction)
ACGIH : TWA 10 mg/m <sup>3</sup> (Inhalable particles)	TWA 3 mg/m <sup>3</sup> (Respirable Particles)
NIOSH REL: TWA 10mg/m <sup>3</sup> (Total Dust),	TWA 5mg/m <sup>3</sup> (Respirable Fraction)

See Section 11.3 for trace contaminants information.

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### Appropriate engineering controls:

Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen-deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks: Refer to NFPA 654, *Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids*, for safe handling.

### 8.2 Personal protective equipment:

#### Eye protection:

Use safety glasses. If there is a potential for exposure to mists which could cause eye discomfort, wear chemical goggles, or use a full-face respirator.

Body protection: Wear clean body-covering clothing to prevent skin exposure.

#### Hand protection:

Contact should be minimized. Protective gloves are recommended when prolonged skin contact cannot be avoided. The glove(s) listed may provide protection against permeation (gloves of other chemically resistant materials may not provide adequate protection): Polyethylene, Polyvinyl chloride (PVC), Neoprene, Nitrile, Polyvinyl alcohol, Viton. Selection of gloves will depend on the task.

#### Respiratory protection:

Concentration in air determines the level of respiratory protection needed. Use only NIOSH certified respiratory equipment. Respiratory protection is not usually needed unless product is heated or misted. Half-mask air purifying respirator with dust mist filters or HEPA filter cartridges is acceptable for exposures to ten (10) times the exposure limit. Full-face air purifying respirator with dust mist filters or HEPA filter cartridges is acceptable for exposures to fifty (50) times the exposure limit. Protection by air purifying respirators is limited. Use a positive pressure-demand full-face supplied air respirator or SCBA for exposures greater than fifty (50) times the exposure limit. If exposure is above the IDLH (Immediately Dangerous to Life and Health), or there is the possibility of an uncontrolled release, or exposure levels are unknown, then use a positive pressure-demand full-face supplied air respirator with escape bottle or SCBA. Wear a NIOSH-approved (or equivalent) full-face piece airline respirator in the positive pressure mode with emergency escape provisions.

#### Other:

Remove contaminated clothing and wash before reuse. For non fire emergencies, respiratory protection may be necessary and wear appropriate protective clothing to avoid contact with material. Have eyewash station in work area. Do not consume or store food in the work area. Wash hands before smoking or eating.

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### Section 9. Physical and Chemical Properties

<i>Section 9: Physical and Chemical Properties List</i>	
<i>Appearance</i>	
<i>Physical state</i>	<i>Solid bales</i>
<i>Color</i>	<i>Off White</i>
<i>Odor</i>	<i>Odorless</i>
<i>Odor Threshold</i>	<i>NA</i>
<i>Auto-ignition Temperature</i>	<i>ND</i>
<i>Decomposition Temperature</i>	<i>&gt; 200 deg C</i>
<i>Density</i>	<i>ND</i>
<i>Evaporation Rate</i>	<i>ND</i>
<i>Flammability (solid, gas)</i>	<i>Vapor produces combustible mixture with air</i>
<i>Flash Point</i>	<i>&gt; 300 deg C</i>
<i>Initial Boiling Point and Boiling Range</i>	<i>ND</i>
<i>pH</i>	<i>NA</i>
<i>Melting Point/freezing Point</i>	<i>ND</i>
<i>Partition coefficient n-octanol/water</i>	<i>ND</i>
<i>Relative Density</i>	<i>ND</i>
<i>Solubility (water);</i>	<i>insoluble in cold water</i>
<i>Solubility (other)</i>	<i>ND</i>
<i>Upper/lower Flammability or Explosive Limits</i>	<i>ND</i>
<i>Vapor Density</i>	<i>ND</i>
<i>Vapor Pressure</i>	<i>ND</i>
<i>% volatile</i>	<i>&lt; 1%</i>

NA = Not applicable

ND = No data

Remarks: The above information is not intended for use in preparing product specifications. Contact Cenway before writing specifications.

### Section 10. Stability and Reactivity

**10.1 Chemical stability:** Stable under normal temperature conditions and recommended use.

**10.2 Possibility of hazardous reactions:** No hazardous reactions if stored and handled as prescribed/indicated.

**Conditions to avoid:** Avoid temperatures above 200 deg C (392 deg F) Exposure to elevated temperatures can cause decomposition. Strong oxidizing agents. Avoid static discharge. Avoid moisture.

**10.4 Incompatible materials:** Oxidizing materials.

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### 10.5 Hazardous decomposition products:

Decomposition products including hydrogen bromide and brominated compounds, carbon dioxide and carbon monoxide, and other products of incomplete combustion depending upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. Fumes can be irritating.

**10.6 Hazardous Polymerization:** Will not polymerize.

## Section 11. Toxicological Information

**11.1 Information on the likely routes of exposure:** Inhalation, ingestion, skin and eye contact.

### 11.2 Information on toxicological effects:

The greatest danger from ingestion of large quantities is intestinal obstruction.

**Acute toxicity:** Product No Data

**Acute toxicity:** Components

Calcium distearate 1592-23-0  
LD50 Oral (Rat): > 2000 mg/kg bw(male)  
LD50 Inhalation ( Rat): > 200 mg/l 1 hr  
LD50 Dermal, (Rabbitt): > 2000 mg/kg bw

**Aspiration or inhalation NA**

Implantation will cause foreign body reaction.

### GHS Classification:

**Skin corrosion/irritation:** GHS Classification: Not Classified.

**Serious eye damage/irritation:** GHS Classification: Not Classified.

**Inhalation:** GHS Classification: Not Classified.

**Respiratory or skin sensitization:** GHS Classification: Not Classified.

**Germ Cell Mutagenicity:** GHS Classification: Not Classified.

**Reproductive Toxicity:** GHS Classification: Not Classified.

**Teratogenicity:** GHS Classification: Not Classified.

Specific target organ toxicity (STOT):

STOT-single exposure: The substance or mixture is not classified as specific target organ toxicant, single exposure.

STOT-repeated exposure: The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

### 11.3 Carcinogenicity:

This product does not contain any material at > 0.1% that is listed by IARC, NTP, EPA, ACGIH, or OSHA as a carcinogen.

**11.4 Chronic Exposure:** None known



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### 11.5 Potential Health Effects

Negligible hazard at ambient temperature (-18 to 38 Deg C; 0 to 100 Deg F) Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and respiratory tract. Vapors and/or aerosols which may be formed at elevated temperatures may cause systemic effects.

**11.3 SPECIAL PRECAUTIONS** Bromobutyl Rubber contains trace amounts of bromoform dibromochloromethylpropane (DBCMP), tribromomethylpropane (TBMP) and other low molecular weight halogenated hydrocarbons. Trace concentrations of these compounds on the order of parts per billion, may be emitted into the atmosphere after heating at temperatures exceeding 150 Deg C during compounding or processing operations. DBCMP and TBMP have structural elements in common with dibromochloropropane (DBCP), a compound NOT found in bromobutyl rubber, but which is a recognized carcinogen, reproductive toxin, and genotoxin (mutagen). The toxicity of the bromobutyl contaminate, DBCMP was compared to DBCP in a 10-week inhalation exposure. Results showed that, at the maximum tested dose of 50 ppm, DBCMP produced no evidence of systemic toxicity or significant histological changes. Short-term, in vitro tests indicate that DBCMP and TBMP are less genotoxic than DBCP, though their mutagenic activities are not insignificant. Therefore, DBCMP and TBMP may have carcinogenic potential. We recommend a 0.01 ppm Occupational Exposure Limit (OEL) for total DBCMP plus TBMP. We further recommend observance of the ACGIH TLV of 0.5 ppm for Bromoform. Experience has demonstrated that with adequate ventilation and good industrial hygiene practice, exposures can be controlled to well within the recommended OEL.

## Section 12. Ecological Information

### 12.1 Toxicity Data Product No data

### 12.2 Toxicity Data Ingredient Calcium distearate

<i>Acute Toxicity</i>	<i>Time</i>	<i>Species Method</i>
LC50 >15 mg/L	96 hr	Fish OECD 203
EC50 166.3 mg/L	48 hr	Daphnia OECD 202

**12.3 Product Aquatic and terrestrial ecotoxicity:** Not expected to be acutely toxic.

**12.4 Product Mobility:** Expected to be relatively immobile in soil (Koc > 5000).

### 12.5 Product Persistence/ Bioaccumulative potential: and degradability:

Expected to be low because of their relatively high molecular weight and water insolubility.

**12.6 Other:** No other information.

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### Section 13. Disposal Considerations

#### 13.1 Disposal methods:

Uncontaminated discarded product is not a hazardous waste under RCRA. Do not dump into any sewers, on the ground or into any body of water. All disposal practices must comply with all federal, state, and local laws and regulations. Offer surplus and non-recyclable solutions to a licensed disposal company. Contact a licensed professional waste disposal service to dispose of this

#### 13.2 Container disposal:

Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue. Puncture or otherwise destroy empty container and dispose of in a facility permitted for nonhazardous waste.

### Section 14. Transport Information

14.1 UN number: Not regulated.

14.2 UN proper shipping name: Not regulated

14.3 Transport hazard class: Not regulated.

14.4 Packing group (if applicable): Not regulated.

14.5 Marine Pollutant (Yes/No): No

14.6 Special precaution: No information available.

### Section 15. Regulatory Information

#### U.S. Regulations

##### 15.1 US TSCA inventory:

All chemical substances in this product comply with all rules or orders under TSCA. All intentionally added ingredients either are listed on the TSCA Inventory list or exempt from listing.

##### 15.1 SARA Section 311/312 Hazard Categories

Acute Hazard: No  
Chronic Hazard: No  
Fire Hazard: Yes  
Reactive Hazard: No  
Sudden Pressure Release: No

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### 15.2 CERCLA Hazardous Substance SARA Section 304 Release Reporting:

<u>Component(s)</u>	<u>Reportable Quantity</u>		
<u>CAS Number</u>	<u>Threshold</u>	<u>Min</u>	<u>Max</u>
None			

### 15.3 SARA Section 302 Extremely Hazardous Substances:

<u>Component(s)/Concentration</u>		
<u>CAS Number</u>	<u>Min</u>	<u>Max</u>
None		

### 15.4 SARA Section 313 Toxic Chemicals:

<u>Component(s)</u>	<u>Reporting</u>	<u>Concentration</u>
<u>CAS Number</u>	<u>Threshold</u>	<u>Min</u> <u>Max</u>
None		

### 15.5 California Proposition 65:

This product is known to contain chemical(s) known to the State of California to cause cancer or reproductive harm.  
Residual monomer isoprene CAS 78-79-5 < 10 ppm

### 15.6 Pennsylvania Worker and Community Right To Know Act:

No hazardous materials listed.

### 15.7 New Jersey Worker and Community Right To Know Act:

No hazardous materials listed.

### Massachusetts Right To Know Act:

No hazardous materials listed.

### 15.8 Rhode Island RTK

No hazardous materials listed.

### 15.9 International Regulations:

#### Canadian Regulations:

WHMIS Statement: This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the SDS contains all the information required by the *Controlled Products Regulations*. This product is classified as controlled in accordance with the Canadian Controlled Products Regulations.

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### International Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS/NICNAS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada Non-	Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS) Monomers	
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS/MITI)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes
Switzerland	Environmental Hazardous Substance list in Switzerland	Not known
Taiwan	Taiwan Inventory (National Chemical Substance Registry (NCSR)	No

\*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

### Section 16. Other Information

#### 16.1 NFPA and HMIS Hazard Ratings:

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, the customer must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product SDS. This information is intended solely for the use of individuals trained in the particular hazard rating system.

*Key: 0 = least, 1 = slight, 2 = moderate, 3 = high, 4 = extreme*

#### NFPA (National Fire Protection Association) - Classification

Health	0 slight
Flammability	1 minimal
Instability or Reactivity	0 minimal
Special Hazards	none

#### HMIS® [Hazardous Materials Identification System (Paint & Coating)] - Classification

Health	0 slight
Flammability	1 minimal
Reactivity	0 minimal

NFPA, HMIS® rating involves data interpretations that may vary from company to company. They are intended only for rapid, general identification of the magnitude of the specific hazard. To deal adequately with the safe handling of this material, all the information contained in this SDS must be considered. This information is supplied solely for the use of individuals trained in the particular hazard rating system.

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### 16.2 Revision information:

Date of the previous revision: 03/31/2017(Version 01)  
Date of this revision: 06/16/2017 (Version 2.0)  
Revision summary: Revised GHS/OSHA compliant SDS

**16.3 Training advice:** Provide adequate information, instruction and training for operators.

### 16.4 Key or legend to abbreviations and acronyms used in the safety data sheet:

ACGIH	American Conference of Governmental Industrial Hygienists
BEI	Biological Exposure Index
OEL	Occupational Exposure Limit
PEL	Permissible Exposure Limit
ppm	parts per million
STEL	Short Term Exposure Limit
TLV	Threshold Limit Value
TWA	Time Weighted Average
REL	Recommended exposure limits from NIOSH
NIOSH	National Institute for Occupational Safety and Health
Action Level	An exposure value set by OSHA that is lower than the PEL that will trigger the need for activities such as exposure monitoring and medical surveillance.

### 16.5 Declare to reader:

This Safety Data Sheet conforms to US GHS (Revision 3) Hazcom 2012.  
The opinions expressed herein are those of qualified experts within R.E. Carroll, Inc. We believe that the information contained herein is current as of the date of this Safety Data Sheet. Since the use of this information and of these opinions and the conditions of use of this product are not within the control of R.E. Carroll, Inc., it is the user's obligation to determine the conditions of safe use of the products.

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**END OF SDS**

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