

Product Name: DURICOMP™
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SAFETY DATA SHEET

SECTION 1	PRODUCT AND COMPANY IDENTIFICATION
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PRODUCT

Product Name: DURICOMP™
Product Description: Cable limiter
Intended Use: Used in current limiter products where electrical current generates heat

COMPANY IDENTIFICATION

Supplier: BURNDY LLC
 47 East Industrial Park Drive
 Manchester, NH 03109 USA

24 Hour Emergency (INFOTRAC) (800) 535-5053 (US and Canada)
 (352) 323-3500 (International)
Burndy Informational Number (603) 647-5000



SECTION 2	HAZARDS IDENTIFICATION
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*Note: Classifications are based on hazards arising from dust generating work operations. During normal/storage conditions this product will not pose significant health hazards.

CLASSIFICATION

Health	Environmental	Physical
<ul style="list-style-type: none"> •Eye Irritation - Category 2B •Carcinogenicity - Category 1A •Target Organ System Toxicity - Single Exposure, Category 3 •Target Organ Toxicity - Repeated Exposure, Category 2 	<ul style="list-style-type: none"> •No classifiable hazards 	<ul style="list-style-type: none"> •No classifiable hazards

LABELLING

Symbols: <div style="display: flex; justify-content: space-around; align-items: center;">   </div> <p style="text-align: center;">Health Hazard Respiratory Irritation</p>	
Signal Word: Danger	
Hazard Statements <ul style="list-style-type: none"> •H 320: Causes eye irritation •H 335: May cause respiratory irritation •H 351: May cause cancer (through inhalation) •H 373: May cause damage to organs (kidney) through prolonged or repeated exposure 	Precautionary Statements <ul style="list-style-type: none"> •P 201: Obtain special instructions before use. •P 202: Do not handle until all safety precautions have been read and understood •P 233: Keep container tightly closed •P 260: Do not breathe dust/vapors. •P 271: Use only outdoors or in a well-ventilated area •P 281: Use personal protective equipment as required

SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS

Reportable Hazardous Substance(s) or Complex Substance(s)

Name	Common Name/Synonym	CAS#	Percentage	Impurities
Calcium Silicates (Masonry Cement)	CS Lafarge, Calcium Polysilicate, Silicic Acid Calcium Salt	1344-95-2	98%	None Known
Silica (Crystalline Quartz)	Cristobalite, Quartz	14808-60-7	2%	None Known

* All concentrations are percent by weight unless material is a gas. Gas concentrations are in percent by volume.

SECTION 4 FIRST AID MEASURES

ROUTES OF ENTRY: Inhalation, Contact

EMERGENCY AND FIRST AID PROCEDURES:

Inhalation: Not hazardous under normal use. If airborne particles or dusts are generated during work operations, inhalation may cause irritation to respiratory tract. Remove affected person to fresh air. If symptoms persist, consult a physician.

Eye Contact: Direct contact can cause eye irritation by mechanical means. For eye contact remove contacts if affected person is wearing them. Irrigate eyes for 15 minutes with clean water. If symptoms persist, consult a physician.

Skin/Eye Contact: No first aid needed for dermal contact. However exposed skin should be washed with soap and water before breaks and at the end of shifts.

Ingestion: Normally hazardous by ingestion. If large amounts of product are swallowed contact poison control. Do not induce vomiting unless directed to do so by a medical professional. Seek medical help if symptoms develop.

SECTION 5 FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA

Appropriate Extinguishing Media: Not Applicable to this product.

Inappropriate Extinguishing Media: Not Applicable to this product.

FIRE FIGHTING

Fire Fighting Instructions: Not Applicable to this product. Use appropriate extinguishing methods and protective equipment for surrounding materials. Bunker gear and self-contained breathing apparatus (SCBA) should be used as standard fire protection gear.

Unusual Fire Hazards/Combustible Products: Not Applicable

SECTION 6 ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS AND EMERGENCY PROCEDURES

Avoid inhalation of dust and contact of the material with eyes. See the Hazard Identification

Section for Significant Hazards. See Section 4 for First Aid Advice. See Section 8 for Personal Protective Equipment.

ENVIRONMENTAL PRECAUTIONS

This product is not expected to be hazardous to the environment. In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations. The National Response Center can be reached at (800)424-8802.

CLEAN UP AND CONTAINMENT METHODS

Notify safety personnel of major spills. Provide ventilation to limit worker exposures. Clean-up personnel should wear personal protective equipment specified in section 8. Material can be shoveled or swept. Limit agitation of product to reduce airborne dust. Wet sweeping is the preferred method of cleanup for crystalline silica dust. For water spills remove product by skimming if it is safe to do so.

Spill recommendations are based on the most likely spill scenario for this material; however, geographic conditions, wind, temperature, (and in the case of a water spill) wave and current direction and speed may greatly influence the appropriate action to be taken. For this reason, local experts should be consulted. Note: Local regulations may prescribe or limit action to be taken.

SECTION 7	HANDLING AND STORAGE
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Handling Procedures and Equipment

Product is an inert, encapsulated, and molded compound. Do not breathe dusts if generated during work operations. Do not rely on eyesight to determine if dust is in the air. Use approved ventilation when nuisance dusts are present during alterations by grinding, milling, sanding, etc. Use good housekeeping to prevent accumulation of dust in work area.

Storage Requirements

Storage of material should be in a clean, dry, and well-ventilated area. Store in accordance with labeling on box. Protect from weather and moisture. Keep away from children.

SECTION 8	EXPOSURE CONTROLS / PERSONAL PROTECTION
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EXPOSURE LIMIT VALUES

Exposure limits/standards (Note: Exposure limits are not additive)

Component Name	CAS #	TWA/STEL	OSHA		ACGIH	Note
Calcium Silicates (Masonry Cement)	1344-95-2	TWA	15 mg/m ³ (Total Dust) 5.0 mg/m ³ (Respirable Dust)		0.1 mg/m ³	TLV listed as 0.01 due to >1% silica composition
Silica (Crystalline Quartz)	14808-60-7	TWA	30 mg/m ³ %Silica + 2 (Total Dust)	10 mg/m ³ % Silica + 2 (Respirable)	0.025 mg/m ³ (Respirable)	N/A

ENGINEERING CONTROLS

During work grinding, sanding, and crushing work operations use local exhaust ventilation to control exposures to silica dust. Since crystalline silica is a carcinogen air concentrations should be kept as low as feasibly possible during dust-generating work operations. Supplement with mechanical general ventilation. Consider additional engineering controls as enclosures and confinement of the operation.

PERSONAL PROTECTIVE EQUIPMENT

Personal protective equipment selections vary based on potential exposure conditions such as applications, handling practices, concentration and ventilation. Information on the selection of protective equipment for use with this material, as provided below, is based upon intended, normal usage.

Respiratory Protection: NIOSH approved respirator designed to remove airborne particulate present in excess of maximum allowable concentrations due to secondary operations such as grinding, milling, sanding, etc. Respiratory protection should be used when there is inadequate ventilation.

Hand Protection: Protective gloves are recommended to prevent dust contamination. Wash hands with soap and water after handling product.

Eye Protection: Safety glasses with side shields or goggles are recommended when handling product for intended use.

Skin and Body Protection: Protective outer clothing can be worn to prevent contamination of normal clothing. Clothing should be cleaned or laundered when it becomes dusty.

Specific Hygiene Measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Discard contaminated clothing and footwear that cannot be cleaned. Practice good housekeeping.

ENVIRONMENTAL CONTROLS

See Sections 6, 7, 12, 13.

SECTION 9	PHYSICAL/CHEMICAL PROPERTIES
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Typical physical and chemical properties are given below. Consult the Supplier in Section 1 for additional data.

GENERAL INFORMATION

Physical State: Solid
Color: White with a grey cast.
Odor: Odorless.
Odor Threshold: Not Applicable

IMPORTANT HEALTH, SAFETY, AND ENVIRONMENTAL INFORMATION

Flash Point [Method]: Not Flammable
Flammability(Gas, solid): Not Flammable
Flammable Limits (Approximate volume % in air): Not Applicable
Autoignition Temperature: Not Available
Decomposition Temperature: Not Available
Boiling Point/Range: Not Applicable
Melting/Freezing Point: Not Applicable
Vapor Pressure: Not Applicable

Vapor Density (Air = 1): Not Applicable
Solubility in Water: <0.01%

Specific Gravity (Water = 1): 2.2
% Volatile: Not Applicable
Evaporation Rate (n-butyl acetate = 1): Not Applicable

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Viscosity: Not Applicable
Partition Coefficient (n-Octanol/Water): Not Available
pH: Not Applicable

Pour Point: Not Applicable
Molecular Weight: Not Available
Molecular Formula: Mixture

SECTION 10	STABILITY AND REACTIVITY
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STABILITY: Product is stable.

CONDITIONS TO AVOID: Extreme temperatures (>870°C), this can change the crystal structure to tridymite and cristobalite (>1470°C), which have greater health effects than the quartz form.

INCOMPATIBILITY: Powerful oxidizing agents such as fluorine, chlorine trifluoride, and manganese trioxide.

HAZARDOUS DECOMPOSITION: When dissolved in hydrofluoric acid will produce silicon tetrafluoride, a corrosive gas.

POSSIBILITY OF HAZARDOUS REACTIONS: None are known.

SECTION 11	TOXICOLOGICAL INFORMATION
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ACUTE TOXICITY VALUES

Ingredient	LD₅₀/LC₅₀ Route and Species	Conclusion / Remarks
Calcium Silicates (Masonry Cement)	LD ₅₀ : > 5000 mg/kg, Rat Oral	J Am Coll Toxicol (2003).
Silica (Crystalline Quartz)	LD ₅₀ : 500 mg/kg, Rat Intravenous LDL ₀ : 200 mg/kg, Rat Intratracheal	Lowest lethal dose observed Intratracheal test caused fibrosis of the lung tissue.

ACUTE EFFECTS

Eye Contact: Direct contact with product can cause mechanical irritation to the eyes.

Skin Contact: Not normally hazardous by skin contact. May cause mechanical irritation.

Inhalation: Breathing airborne particles or dust may cause irritation to respiratory tract. If airborne levels exceed maximum allowable limits, NIOSH approved respirator required.

Ingestion: May cause gastric distress, stomach pains, vomiting, and diarrhea.

Target Organ Effects: Silicosis, increased risk of lung cancer, possible renal effects.

Medical Conditions Aggravated by Exposure: Preexisting eye or respiratory disorders may become aggravated through prolonged exposure.

CHRONIC/OTHER EFFECTS

Product can cause respiratory tract irritation if airborne particles are generated through secondary work operations and are inhaled. Chronic inhalation of crystalline silica dust can cause severe pneumoconiosis (silicosis), lung fibrosis, and increased risk of lung cancer. Other non-malignant respiratory disorders such as emphysema and chronic bronchitis are associated with silica exposure. Chronic exposure to crystalline silica may cause kidney disease.

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Additional information may be available by request.

Carcinogenicity: IARC: Yes (1) ACGIH: Suspected (A2) NTP: Yes OSHA Regulated: NO

The following ingredients are cited on the lists below: Crystalline Silica: 1,3

--REGULATORY LISTS SEARCHED--

1 = NTP CARC 3 = IARC 1 5 = IARC 2B
 2 = NTP SUS 4 = IARC 2A 6 = OSHA CARC

SECTION 12	ECOLOGICAL INFORMATION
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The information given is based on data available for the material, the components of the material, and similar materials.

ECOTOXICITY

Ingredient	LC ₅₀ and Species	Conclusion / Remarks
Calcium Silicates (Masonry Cement)	>1000 mg/L / 96 hr., <i>Oncorhynchus mykiss</i> (Rainbow trout)	Freshwater, semi-static bioassay.
Silica (Crystalline Quartz)	>10,000 mg/L / 72 hr., <i>Cyprinus carpio</i> (Carp)	Conditions not specified

Environmental Fate

The ingredients in this product are not expected to be hazardous to the environment. There is no data to suggest that this product is toxic to birds, fish, invertebrates, microorganisms, or plants. This product will not bioconcentrate in aquatic organisms. Product itself should not pose significant environmental hazards, however caution should be used if product is contaminated with other products that may be harmful to the environment.

SECTION 13	DISPOSAL CONSIDERATIONS
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Disposal recommendations based on material as supplied. Disposal must be in accordance with current applicable Local, State and Federal laws and regulations, and material characteristics at time of disposal.

DISPOSAL RECOMMENDATIONS

If uncontaminated, dispose as an inert, non-metallic mineral. If contaminated, dispose in accordance with all applicable local, state/provincial and federal regulations in light of the contamination present. Disposal arrangements must consider the physical and toxicological characteristics of the material.

REGULATORY DISPOSAL INFORMATION

Product is not classified as a hazardous waste under US EPA regulations.

SECTION 14	TRANSPORTATION
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Regulatory Information	UN Number	Proper Shipping Name	Hazard Class	Packing Group	Label(s)	RQ	Additional Information
US DOT	Not regulated for transportation						
TDG	Not regulated for transportation						
ADR	Not regulated for transportation						

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IATA	Not regulated for transportation by air
IMDG	Not regulated for transportation by vessel

SECTION 15	REGULATORY INFORMATION
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OSHA HAZARD COMMUNICATION STANDARD: When used for its intended purpose, this material is classified as hazardous in accordance with OSHA 29CFR 1910.1200.

EPCRA: This material contains no extremely hazardous substances.

SARA (311/312) REPORTABLE HAZARD CATEGORIES: Delayed Health

SARA (313) TOXIC RELEASE INVENTORY: No

CALIFORNIA PROP 65: WARNING: This product contains chemicals known to the State of California to cause cancer.

CLEAN WATER ACT/OIL POLLUTION ACT: No

INTERNATIONAL REGULATIONS:

WHMIS CLASSIFICATION

Class D2A: Chronic Toxic Effects, Carcinogen
Class D2B: Eye Irritant

WHMIS HAZARD SYMBOLS



EUROPEAN INVENTORY OF EXISTING CHEMICALS (EINECS):

Chemical Name	CAS Number	EINECS Number
Calcium Silicates (Masonry Cement)	1344-95-2	215-710-8
Silica (Crystalline Quartz)	14808-60-7	238-878-4

EU RISK (R) AND SAFETY (S) PHRASES:

R 36: Irritating to the eyes
R 48/20: Danger of serious damage to health by prolonged exposure though inhalation
R 40/20: Possible Risks of irreversible effects through inhalation
S 22: Do not breathe the dust
S 25: Avoid contact with eyes
S 38: In case of insufficient ventilation, wear suitable respiratory equipment

The following ingredients are cited on the lists below:

Chemical Name	CAS Number	List Citations
Calcium Silicates (Masonry Cement)	1344-95-2	1,4

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Silica (Crystalline Quartz)	14808-60-7	1,2,4,10,12,16,17
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--REGULATORY LISTS SEARCHED--

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|---------------|------------------|-------------------|-------------|
| 1 = ACGIH ALL | 6 = TSCA 5a2 | 11 = CA P65 REPRO | 16 = MN RTK |
| 2 = ACGIH A1 | 7 = TSCA 5e | 12 = CA RTK | 17 = NJ RTK |
| 3 = ACGIH A2 | 8 = TSCA 6 | 13 = IL RTK | 18 = PA RTK |
| 4 = OSHA | 9 = TSCA 12b | 14 = LA RTK | 19 = RI RTK |
| 5 = TSCA 4 | 10 = CA P65 CARC | 15 = MI 293 | |

Code key: CARC=Carcinogen; REPRO=Reproductive

SECTION 16	OTHER INFORMATION
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NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) RATINGS:

Health - 1 Flammability - 0 Reactivity - 0

HAZARDOUS MATERIALS IDENTIFICATION SYSTEM (HMIS) RATINGS:

Health - 1* Flammability - 0 Physical Hazard - 1 PPE - E

THIS SAFETY DATA SHEET CONTAINS THE FOLLOWING REVISIONS:

Revision Date	Description	Sections Affected
6/2/11	MSDS Version written	1-11
7/18/11	Updated to GHS criteria, additional sections added.	1-16
8/1/11	Update	15

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