



Hummel Croton Inc.
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South Plainfield, NJ 07080
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In Case Of Emergency Call
(U.S.) 800-424-9300
(International) +1-813-248-3924

Lead Dioxide Safety Data Sheet

1. Product and Company

Product name: Lead Dioxide

Synonym: Lead Oxide Brown, Lead Peroxide, Lead Superoxide

CAS-No.: 1309-60-0

Company: Hummel Croton Inc.
10 Harmich Rd.
South Plainfield, NJ 07080

Telephone: 908-754-1800
Fax: 908-754-1815

HMIS Rating	
Health	2
Flammability	1
Reactivity	0
Personal Protection	E

Emergency telephone number

Emergency Phone #: Chemtrec US: 800-424-9300
ChemTel International: +1-813-248-0585

2. Hazards

GHS Label elements

GHS Classification: Oxidizing solids (Category 3), H272
Acute toxicity, Oral (Category 4), H302
Acute toxicity, Inhalation (Category 4), H332
Carcinogenicity (Category 1B), H350
Reproductive toxicity (Category 1A), H360
Specific target organ toxicity - repeated exposure (Category 2), H373
Acute aquatic toxicity (Category 1), H400
Chronic aquatic toxicity (Category 1), H410

Pictogram(s)



Signal word **DANGER**

Hazard statement(s)

- H272 May intensify fire; oxidizer.
- H302 + H332 Harmful if swallowed or if inhaled
- H350 May cause cancer.
- H360 May damage fertility or the unborn child.
- H373 May cause damage to organs through prolonged or repeated exposure.
- H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat.
- P220 Keep/Store away from clothing/ combustible materials.
- P221 Take any precaution to avoid mixing with combustibles.
- P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
- P264 Wash skin thoroughly after handling.
- P270 Do not eat, drink or smoke when using this product.
- P271 Use only outdoors or in a well-ventilated area.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
- P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel unwell. Rinse mouth.
- P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell.
- P308 + P313 IF EXPOSED OR CONCERNED: Get medical advice/ attention.
- P391 Collect spillage.
- P501 Dispose of contents/ container to an approved waste disposal plant.

Hazards not otherwise classified (HNOC) or not covered by GHS

None.

3. Composition/Ingredients

Substance
Formula: PbO₂
CAS-No.: 1309-60-0

Material	CAS	%	OSHA	ACGIH
Lead Dioxide	1309-60-0	90-97%	0.05 mg/m ³ as Lead	0.05 mg/m ³ as Lead

Lead Monoxide	1317-36-8	3-10%	0.05 mg/m ³ as Lead	0.05 mg/m ³ as Lead
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4. First Aid

First Aid For Eye: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

First Aid For Skin: In case of contact, flush skin with water. Wash clothing before reuse. Call a physician if irritation occurs.

First Aid For Inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician.

First Aid For Ingestion: If swallowed, call a physician immediately.

5. Fire Data

Flammability: Non-Flammable

Flash Points: Not Applicable

Auto-Ignition: Not Applicable

Flammable Limits: Not Applicable

Extinguishing Media: Water Spray

Fire Fighting Procedure: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. Strong Oxidizer.

Fire/Explosion Hazards: Contact with other material may cause fire. Emits toxic fumes under fire conditions.

6. Accidental Release

Spill Or Leak Procedures: Utilize recommended protective clothing and equipment. Clean spills in a manner that does not disperse dust into the air. Spill area can be washed with water. Collect wash water for approved disposal. Keep from entering water or ground water.

7. Handling And Storage

Storage Temperatures: Store at ambient temperature

Shelf Life: Unlimited in tightly sealed container

Special Sensitivity: None.

Handling/Storage Precautions: Avoid breathing dust. Avoid getting in eyes or on skin. Wash thoroughly after handling. Store in a dry place away from direct sunlight, heat and incompatible materials. Reseal containers immediately after use. Store away from food and beverages.

8. Exposure Controls/Personal Protection

Eye Protection: Safety glasses or goggles.

Skin Protection: PVC gloves with impervious boots, apron or coveralls. Wash hands and face before eating, drinking or using tobacco.

Respirator: Work ambient concentrations should be monitored and if the recommended exposure limit is exceeded, a NIOSH/MSHA approved dust respirator must be worn.

Ventilation: Use local ventilation if dusting is a problem, to maintain air levels below the recommended exposure limit.

Additional Measures: Emergency showers and eye wash stations should be available. Educate and train employees in the safe handling of hazardous chemicals.

9. Physical And Chemical Properties

Physical Form: Powder

Color: Brown to Black

Odor: Odorless

Molecular Weight: 239.20 g/mol

Boiling Point: Decomposes 290°C

Melting/Freezing Point: Decomposes 290°C

Solubility In Water: Insoluble

Specific Gravity: 9.3

10. Stability And Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Incompatibilities: Strong reducing agents and finely powdered metals.

Instable Conditions: Excessive temperatures (see Incompatibilities).

Decomposition Temperature: Decomposes 290°C

Decomposition products: Oxides of lead.

11. Toxicological Information

RTECS Number: OG0700000

Routes of Exposure: Eye contact. Ingestion. Inhalation. Skin contact.

Toxicity Data: IPR-GPG LD50:220 MG/KG

Acute Health Effects: Irritating to the skin and eyes on contact. Inhalation will cause irritation to the lungs and mucus membrane. Irritation to the eyes will cause watering and redness.

Reddening, scaling, and itching are characteristics of skin inflammation. Follow safe industrial hygiene practices and always wear protective equipment when handling this compound.

Chronic Health Effects: Overexposure may cause reproductive disorder(s) based on tests with laboratory animals. Lead salts have been reported to cross the placenta and to induce embryo- and feto-mortality. They also have teratogenic effect in some animal species. No teratogenic effects have been reported with exposure to organometallic lead compounds. Adverse effects of lead on human reproduction, embryonic and fetal development and postnatal (e.g., mental) development have been reported. Excessive exposure can affect blood, nervous and digestive systems. The synthesis of hemoglobin is inhibited and results in anemia. If left untreated, neuromuscular dysfunction, possible paralysis and encephalopathy can result. Additional symptoms of overexposure include: joint and muscle pain, weakness of the extensor muscles (frequently the hand and wrist), headache, dizziness, abdominal pain, diarrhea, constipation, nausea, vomiting, blue line on the gums, insomnia and metallic taste. High body levels produce increased cerebrospinal pressure, brain damage, stupor leading to coma and often death.

Additional Acute Health Effects: This product is listed by EPA(EPA-B2 Sufficient evidence from animal studies; inadequate evidence or no data from epidemiological studies.) and IARC(IARC-2B

possibly carcinogenic to humans: limited evidence in humans in the absence of sufficient evidence in experimental animals) as a suspected carcinogen.

12. Ecological Information

Ecotoxicity: Not available at this time.

13. Disposal Considerations

Waste Disposal Method: Waste disposal should be in accordance with existing federal, state and local environmental regulations.

14. Transportation Information

Proper Shipping Name: Lead Dioxide

UN Number: 1872

Class: 5.1

P.G.: III

Label Code: 5.1

Other Information: Marine Pollutant

15. Regulatory Information

OSHA Status: This product is hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29 CFR 1910.1200.

TSCA Chemical Inventory: This compound is on the EPA Toxic Substance Control Act (TSCA) Inventory List

California Proposition 65: To the best of our knowledge, this product contains no levels of listed substances, which the State of California has found to cause cancer, birth defects or other reproductive effects.

SARA 313 Title III:

Section 320 Extremely Hazardous Substances: None

Section 311/312 Hazardous Categories: None

Section 313 Toxic Chemicals: Yes; Lead content 86.62%

16. Other Information

Prepared By: Michael Richard

Date: March 21, 2018

Reason For Issue: Emergency Contact Update

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