

# SAFETY DATA SHEET

PRODUCT CODE: Aluminum Oxide

## SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME:** Aluminum Oxide  
**PRODUCT CODES:** Aluminum Oxide

**MANUFACTURER:** National Polymers Inc.  
**STREET ADDRESS:** 9 Guttman Avenue  
**CITY, STATE, ZIP:** Charleroi, Pa. 15022

**INFORMATION PHONE:** 724-483-9300  
**EMERGENCY PHONE:** Chemtrec 800-424-9300  
**FAX PHONE:** 724-483-9306

**PREPARED BY:** Harry Jackson

**DATE REVISED:** 4/15/15

**Chemical Name or Class:** Aluminum oxide

## SECTION 2: HAZARDS IDENTIFICATION

### Hazard Overview

**GHS Classification:** Not classified as dangerous according to the regulations

### GHS Label Elements and Precautionary Statements:

**Label Elements:** None

#### Hazard Statements:

P102 Keep out of reach of children.

P103 Read label before use

#### Precautionary statements:

None

Other Non-Classifiable hazards information

#### Hazard Statements:

P261: Avoid breathing dust/fume/gas/mist/vapors/spray

P280: Wear Eye Protection/face protection

P285: In case of inadequate ventilation, use respiratory protection.

#### Precautionary statements:

P305+P351+P338: If in eyes: Rinse cautiously with water for several minutes. Remove contact lense, if present and easy to do. Continue rinsing.

P302+P352: If on skin, wash with plenty of soap and water.

### HMIS HAZARD CLASSIFICATION

**HEALTH:** 2      **FLAMMIBILITY:** 0      **REACTIVITY:** 0      **PERSONAL PROTECTIVE EQUIPMENT:** E

### POTENTIAL HEALTH EFFECTS

**EYES:** MAY CAUSE CORNEAL ABRASION OR IRRITATION BUT NO CORNEAL INJURY IS LIKELY.

**SKIN:** NONE KNOWN.

**INGESTION:** NONE KNOWN.

**INHALATION:** OVEREXPOSURE MAY CAUSE RESPIRATORY PROBLEMS OR RELATED SYMPTOMS.

**HEALTH HAZARDS (ACUTE AND CHRONIC):** ALUMINUM OXIDE IS TOXIC BY INHALATION OF DUST  
**MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:** RESPIRATORY CONDITIONS OR OTHER ALLERGIC RESPONSE.

### CARCINOGENICITY

OSHA: NO      NTP: NO      IARC: NO

NO LISTED INGREDIENTS OF THIS PRODUCT ARE REGULATED AS CARCINOGENS.

### ADDITIONAL CARCINOGENICITY INFORMATION:

N/A

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>INGREDIENT</u>	<u>CAS NO.</u>	<u>OSHA PEL</u>	<u>ACGIH TLV</u>	<u>OSHA STEL</u>	<u>WEIGHT %</u>
ALUMINUM OXIDE	1344-28-1	10mg/m3	10mg/m3	20mg/m3	100

\*\*\*No toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372 are present.\*\*\*

FOLLOW OSHA HAZARD COMMUNICATION RULE 29CFR SECTIONS 1910.1200, 1915.99, 1917.28, 1918.9, 1926.59, AND STATE AND LOCAL COMMUNITY RIGHT TO KNOW LAWS.

# SAFETY DATA SHEET

PRODUCT CODE: Aluminum Oxide

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## SECTION 4: FIRST AID MEASURES

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**EYES:** FLUSH EYES WITH WATER FOR AT LEAST FIFTEEN MINUTES AND CONSULT A PHYSICIAN IF CONDITION WARRANTS.  
**SKIN:** SKIN CONTACT WILL NORMALLY CAUSE NO HEALTH RISKS.  
**INGESTION:** IF INGESTED, CONSULT A PHYSICIAN.  
**INHALATION:** REMOVE VICTIM TO FRESH AIR AREA AND ADMINISTER OXYGEN IF NECESSARY.

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## SECTION 5: FIRE-FIGHTING MEASURES

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**FLAMMABLE LIMITS IN AIR,**                      **UPPER:** n/a  
(% by volume)                                      **LOWER:** n/a  
**FLASH POINT:** n/a  
**METHOD USED:** n/a  
**EXTINGUISHING MEDIA:** none known  
**SPECIAL FIRE FIGHTING PROCEDURES:** Aluminum oxide is neither a fire hazard nor an explosion hazard  
**UNUSUAL FIRE AND EXPLOSION HAZARDS:** No unusual fire hazards known.

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## SECTION 6: RELEASE MEASURES

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**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** WEAR RESPIRATOR AND USE DUSTLESS HANDLING EQUIPMENT TO CLEAN UP LARGE SPILLS. PLACE IN SUITABLE DISPOSAL CONTAINERS. FLUSH AREA WITH WATER TO REMOVE RESIDUE.

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## SECTION 7: HANDLING AND STORAGE

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**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** STORE IN COOL DRY PLACE. SEAL ALL PARTIALLY USED CONTAINERS. PROPERLY LABEL ALL CONTAINERS. AVOID BREATHING ANY DUST WHEN WORKING WITH THIS MATERIAL.

**OTHER PRECAUTIONS:** AVOID BREATHING DUST GENERATED FROM THE MATERIAL. OBSERVE CONDITIONS OF GOOD GENERAL HYGIENE AND SAFE WORKING PRACTICES. PROVIDE TRAINING FOR YOUR EMPLOYEES RELATING TO OCCUPATIONAL EXPOSURE TO DUST.

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## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

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**RESPIRATORY PROTECTION:** USE A NIOSH APPROVED RESPIRATOR AS REQUIRED TO PREVENT OVER-EXPOSURE TO DUST IN ACCORDANCE WITH 29 CFR 1910.134. GENERAL EXHAUST IS USUALLY SUFFICIENT IN LIEU OF NIOSH RESPIRATOR. PROVIDE SUFFICIENT EXHAUST TO KEEP EXPOSURE LEVELS BELOW THE OSHA PEL LEVEL.

**VENTILATION :** GENERAL EXHAUST IS USUALLY SUFFICIENT TO CONTROL DUST AND EXPOSURE HAZARDS.

**PROTECTIVE GLOVES:** N/A

**EYE PROTECTION:** SPLASH GOGGLES OR GLASSES WITH SIDE SHIELDS.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** PROVIDE EQUIPMENT AS NECESSARY TO PREVENT THE INHALATION OF DUST.

**WORK HYGIENIC PRACTICES:** OBSERVE GOOD GENERAL HYGIENIC PRACTICES.

**SEE SECTION THREE FOR OCCPATONAL EXPOSURE LIMIT VALUES.**

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## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

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**APPEARANCE AND ODOR:** Dark color gray granular oxides

**BOILING POINT OR RANGE:** n/a

**VAPOR DENSITY (AIR = 1):** n/a

**SPECIFIC GRAVITY (H<sub>2</sub>O = 1):** 3.6

**EVAPORATION RATE:** n/a

**SOLUBILITY IN WATER:** insoluble

**Odor Threshold:** N/A

**pH:** N/A

**Melting point/freezing point:** N/A

**Vapor Pressure:** N/A

**Auto Ignition Temperature:** N/A

**Partition Coefficient: n-octanol/water:** N/A

**Decomposition Temperature:** N/A

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## SECTION 10: STABILITY AND REACTIVITY

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**STABILITY:** STABLE

# SAFETY DATA SHEET

PRODUCT CODE: Aluminum Oxide

**CONDITIONS TO AVOID (STABILITY):** CONTACT WITH POWERFULL OXIDIZING AGENTS SUCH AS FLUORINE, CHLORINE, TRIFLUORIDE, MANGANESE TRIOXIDE, OXYGEN TRIFLUORIDE.

**INCOMPATIBILITY (MATERIAL TO AVOID):** CAN REACT WITH STRONG OXIDIZING AGENTS.

**HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:** none known.

**HAZARDOUS POLYMERIZATION:** WILL NOT OCCUR

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## SECTION 11: TOXICOLOGICAL INFORMATION

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**Component Aluminum Oxide CAS# 1334-28-1:** Special Remarks on Chronic Effects on Humans: May cause cancer (tumorigenic) according to animal data. No human data found. Special Remarks on other Toxic Effects on Humans: Acute Potential Health Effects: Skin: May cause skin irritation. Eyes: Nuisance Dust. Dust may cause mechanical eye irritation. Inhalation: Nuisance Dust. Material is irritating to mucous membranes and upper respiratory tract. May cause lung injury. Ingestion: May be harmful if swallowed. Ingestion of large amounts may cause gastrointestinal tract irritation. It is expected to be a low hazard for normal industrial handling.

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## SECTION 12: ECOLOGICAL INFORMATION

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**Component Aluminum Oxide CAS# 1334-28-1:** Products of Biodegradation: Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise Toxicity of the Products of Biodegradation: The product itself and its products of degradation are not toxic.

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## SECTION 13: WASTE DISPOSAL

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**WASTE DISPOSAL METHOD:**

DISPOSE OF THE MATERIAL IN A WASTE DISPOSAL SITE IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL LAWS.

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## SECTION 14: Transport Information

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**DOT:** Not Regulated

**IMO/MDG** Not regulated

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## SECTION 15: REGULATORY INFORMATION

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**Component Aluminum Oxide CAS# 1334-28-1:** Federal and State Regulations: Illinois toxic substances disclosure to employee act: Aluminum oxide Rhode Island RTK hazardous substances: Aluminum oxide Minnesota: Aluminum oxide Massachusetts RTK: Aluminum oxide New Jersey: Aluminum oxide New Jersey spill list: Aluminum oxide California Director's list of Hazardous Substances: Aluminum oxide TSCA 8(b) inventory: Aluminum oxide SARA 313 toxic chemical notification and release reporting: Aluminum oxide Other Regulations: EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances. Other Classifications: WHMIS (Canada): Not controlled under WHMIS (Canada). DSCG (EEC): R36/38- Irritating to eyes and skin. S2- Keep out of the reach of children. S46- If swallowed, seek medical advice immediately

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## SECTION 16: OTHER INFORMATION

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**DISCLAIMER:** The information Contained herein is based on the data available and is believed to be accurate, However, the manufacturer makes no warranty expressed or implied regarding the accuracy of this data or the results obtained from the use thereof. Accordingly, we assume no responsibility for injury from the use of this product.

**N/A = Not Available**

See Section 1 for date of preparation