



SAFETY DATA SHEET

SECTION 1 : IDENTIFICATION

Product identifier used on the label:

Product Name: Westco Zinc Borate

Other means of identification:

Product Description: Chemical Family: Inorganic Borates

Synonyms: Zinc Borate, Zinc Borate Hydrate

Recommended use of the chemical and restrictions on use:

Product Use/Restriction: Westco Zinc Borate is a flame retardant and smoke suppressant for rubber and plastic compounds.

Chemical distributor, or other responsible party Name, address, and telephone number:

Distributor Name: Western Reserve Chemical Corporation

Address: 4837 Darrow Road
Stow, OH 44224
USA

General Phone Number: 330 650 2244

General Fax Number: 330 650 2255

Emergency phone number:

Emergency Phone Number: Chemtrec 1 800 424 9300 USA

Website: www.wrchem.com

SECTION 2 : HAZARD(S) IDENTIFICATION

Classification of the chemical in accordance with CFR 1910.1200(d)(f):

GHS Class: This substance is non hazardous and is not classified under the Globally Harmonized System.

Hazard Statements: Avoid inhalation and contact with skin. May cause some irritation to eyes and skin.

Hazards not otherwise classified that have been identified during the classification process:

Emergency Overview: Avoid inhalation of dust and contact with skin and eyes.

Route of Exposure: Primary Routes of Entry: Inhalation, ingestion, eye and skin contact.

Eye: May cause eye irritation.

Skin: May cause skin irritation.

Inhalation: May cause respiratory irritation if inhaled.

Signs/Symptoms: Inhalation of the dust may cause irritation of the respiratory tract. May cause eye irritation and may be irritating to the skin of sensitive individuals.

SECTION 3 : COMPOSITION/INFORMATION ON INGREDIENTS

Mixtures:

Chemical Name	CAS#	Ingredient Percent	EC Num.
Zinc Borate 2335	1332-07-6	Concentration : B2O3 46.0~48.0%; ZnO 37~40 %	

SECTION 4 : FIRST AID MEASURES

Description of necessary measures:

Eye Contact: In case of contact with eyes, flush with copious amounts of water of at least 15 minutes. . If irritation persists, call a physician.

Skin Contact: In case of contact, immediately wash with soap and copious amounts of water. If irritation persists, call a physician.

Inhalation: If inhaled, remove to fresh air. If necessary , get medical attention
Ingestion: If swallowed, immediately wash out mouth with water provided person is conscious. Call a physician.

Indication of immediate medical attention and special treatment needed:

Note to Physicians: Treat symptomatically.

SECTION 5 : FIRE FIGHTING MEASURES

Suitable and unsuitable extinguishing media:

Suitable Extinguishing Media: Water spray, Dry chemical, Carbon dioxide or appropriate foam.

Specific hazards arising from the chemical:

Hazardous Combustion Byproducts: If heated to decomposition product may emit: zinc oxide, boron oxide.

Special protective equipment and precautions for fire-fighters:

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Fire Fighting Instructions: No Information Provided.

SECTION 6 : ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Personnel Precautions: Procedures of Personal Precautions: Exercise appropriate precautions to minimize direct contact with skin and eyes. Avoid generation of dust. Do not breathe dust. Provide adequate ventilation.

Environmental precautions:

Environmental Precautions: Do not allow to penetrate into soil, waterbodies or drains.

Methods for cleanup: Sweep up and transfer to a dry, clean, container with lid for disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Notes : Reference to other sections: See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.

SECTION 7 : HANDLING and STORAGE

Precautions for safe handling:

Handling: Wear appropriate protective clothing and gloves. Avoid breathing dust. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Mechanical exhaust required. Keep away from ignition sources, heat and flame. Incompatibilities: strong oxidants and food. No smoking at working site.

Hygiene Practices: Follow good industrial hygiene practices when handling this material. Wash thoroughly after handling. Avoid contact with eyes and skin. Avoid inhaling vapor or mist.

Special Handling Procedures: Protect from excessive heat.

Conditions for safe storage, including any incompatibilities:

Storage: Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame .Store in a tightly closed container. Incompatibilities: strong oxidants and food.

Specific end use(s):

Work Practices: Safety showers and eye wash stations should be available.

SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE GUIDELINES:

Guideline Info: Contains no substances with occupational exposure limit values.

Appropriate engineering controls:

Engineering Controls: Use ventilation equipment if available. Safety shower and eye bath.

Individual protection measures:

Eye/Face Protection: Wear chemical safety goggles

Skin Protection Description: Apron or coveralls should be used to prevent contact with skin or clothing.

Hand Protection Description: Wear compatible protective gloves.

Respiratory Protection: Wear dust mask.

Other Protective: Other Protect: No smoking, drinking and eating at working site. Wash thoroughly after handling.

PPE Pictograms:



SECTION 9 : PHYSICAL and CHEMICAL PROPERTIES

PHYSICAL AND CHEMICAL PROPERTIES:

Physical State Appearance: White, crystalline powder, odorless
Melting Point: MP/MP Range: >300
Solubility: 0.3% at 25C
pH: 6~7
Molecular Weight: 434.66/mol

SECTION 10 : STABILITY and REACTIVITY

Chemical Stability:

Chemical Stability: Stable under normal temperatures and pressures.

Possibility of hazardous reactions:

Hazardous Polymerization: Will not occur.

Conditions To Avoid:

Conditions to Avoid: No Data

Incompatible Materials:

Incompatible Materials: Materials to Avoid: Strong oxidants, acids.

Hazardous Decomposition Products:

Special Decomposition Products: If heated to decomposition product may emit: zinc oxide, boron oxide.

SECTION 11 : TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION:

Acute Toxicity: Acute toxicity (Dermal, Inhalative, skin corrosion/irritation): Based on available data, the classification criteria are not met.

Skin: LD50 Dermal: (rabbit) > 10g/kg **

Ingestion: LD50 Oral (rat) > 10g/kg**

Sensitization: May be irritating to the skin of sensitive individuals.

Mutagenicity: Germ cell mutagenicity/Genotoxicity: Based on available data, the classification criteria are not met.

Reproductive Toxicity: No Data

SECTION 12 : ECOLOGICAL INFORMATION

Ecotoxicity:

Ecotoxicity: LC50 Duckling (Anas platyrhynchos) >5620ppm **
LC50 Sunfish (Lepomis macrochirus) > 335ppm Fish toxicity: LC50 Oncorhynchus mykiss: 0,16 mg/L/96 h
NOEC: Oncorhynchus mykiss: 0,130 mg/L/25 h

Bioaccumulative potential:

Bioaccumulation: No data available

Mobility in soil:

Mobility In Environmental Media: No data available

Notes : Do not allow to penetrate into soil, waterbodies or drains.

SECTION 13 : DISPOSAL CONSIDERATIONS

Description of waste:

Waste Disposal: Appropriate Method of Disposal of substance: Discarded material is not a hazardous waste. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical Incinerator equipped with and afterburner and scrubber. Observe all federal, state, and local environmental regulations.

Contaminated Packaging: Dispose of waste according to local, state, federal regulation.

SECTION 14 : TRANSPORT INFORMATION

DOT Shipping Name: Non regulated.

DOT Pictograms: 

IATA Shipping Name: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IMDG Shipping Name : Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

ADR Shipping Name : Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

RID Shipping Name : Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

ICAO Shipping Name: Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

SECTION 15 : REGULATORY INFORMATION

Safety, health and environmental regulations specific for the product:

TSCA Inventory Status: Components of this product are listed in the U.S. EPA TSCA chemical substance inventory.

SARA: SARA: Zinc Borate is not listed under Sec. 302, as an extremely Hazardous Substance, but is a CERCLA Hazardous Substance and emergency release reporting under SARA may be required if off-site releases exceed RQ

SECTION 16 : ADDITIONAL INFORMATION

HMIS Ratings:

HMIS Health Hazard: 1

HMIS Fire Hazard: 0

HMIS Reactivity: 0

HMIS Personal Protection: J

Health Hazard	1
Fire Hazard	0
Reactivity	0
Personal Protection	J

SDS Revision Date: October 27, 2015

Notes : Important Note: This information relates to the specific product described herein and may not be valid for this material when used in combination with other raw materials. The information provided is without warranty regarding its accuracy or completeness. The information may not be valid under all conditions. The user has the final responsibility for determining the suitability of the product in a given application.

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