

Section 01 Identification

Product Identifier Bayoxide E 33 Other Means of Identification CAS: 51274-00-1

on Use

Product Use and Restrictions For commercial or industrial use. Water purification

Initial Supplier Identifier ClearTech Industries Inc.

> 1500 Quebec Avenue Saskatoon, SK. Canada

S7K 1V7

Phone: 800.387.7503 Fax: 888.281.8109 www.cleartech.ca

Prepared By ClearTech Industries Inc. technical writer

24-Hour Emergency Phone 306.664.2522

Section 02 Hazard Identification

GHS-Classification

This product has been assessed in accordance with the Hazardous Products Regulations and is not classified as a hazardous substance or mixture.

Hazards Not Otherwise Classified

Not available

Supplemental Information

Not available

Section 03 Composition / Information on Ingredients

Ingredients:

Chemical name Common name(s) CAS number Concentration (w/w%) Iron hydroxide oxide C.I. Pigment Yellow 42 51274-00-1 >70% (as iron oxide)

Section 04 First-Aid Measures

Description of necessary first-aid measures

Inhalation Get medical advice / attention if you feel unwell or are concerned. Ingestion Get medical advice / attention if you feel unwell or are concerned.

Skin If skin irritation occurs or if you feel unwell: Get medical advice / attention.

contact

Eve Gently brush product off face. Do not rub eyes. Let the eyes water naturally for a few minutes. Look right and contact left, then up and down. If particle / dust does not come out, cautiously rinse eye with lukewarm gently flowing

water for 5 minutes or until particle / dust is removed, while holding the eyelids open. If eye irritation persists:

Get medical advice / attention. Do not attempt to manually remove anything from the eyes.

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Most important symptoms and effects, both acute and delayed

Inhalation May cause respiratory irritation. Ingestion May cause discomfort or nausea.

Skin contact Not available

Eve contact May cause eye irritation and redness.

Further information For further information see Section 11 Toxicological Information.

Section 05 Fire Fighting Measures

Suitable extinguishing media Extinguish fire using extinguishing agents suitable for the surrounding fire.

Unsuitable extinguishing

media

Water jets are not recommended in fires involving chemicals.

Specific hazards arising from None known.

the chemical

for fire-fighters

Special protective equipment Wear NIOSH-approved self-contained breathing apparatus and protective clothing.

Section 06 Accidental Release Measures

Personal Precautions / **Protective Equipment / Emergency Procedures** Wear appropriate personal protective equipment (See Section 08 Exposure Controls and

Personal Protection). Stay upwind, ventilate area.

Environmental Precautions Prevent material from entering waterways, sewers or confined spaces. Notify local health

and wildlife officials. Notify operators of nearby water intakes.

Methods and Materials for Containment and Cleaning

Up

Dry sweeping is not recommended. Pre-damping the material or use of a vacuum is preferred. Shovel into clean, dry, labeled containers and cover. Flush area with water.

Section 07 Handling and Storage

Precautions for Safe Handling Use proper equipment for lifting and transporting all containers. Use sensible industrial

hygiene and housekeeping practices. Wash thoroughly after handling. Avoid all situations

that could lead to harmful exposure.

Inspect containers for damage or leaks before handling. If the original label is damaged or missing replace with a workplace label. Have suitable emergency equipment for fires, spills

and leaks readily available.

Conditions for Safe Storage Store in a cool, dry, well-ventilated area, away from heat sources and incompatible

materials. Always store in original labeled container. Keep containers tightly closed when

not in use and when empty. Protect label and keep it visible.

Incompatibilities Not available

Section 08 Exposure Controls and Personal Protection

Exposure limits

There are no known exposure limits for this product.

Engineering controls

Ventilation Requirements Mechanical ventilation (dilution or local exhaust), process or personnel enclosure and

control of process conditions should be provided in accordance with all fire codes and regulatory requirements. Supply sufficient replacement air to make up for air removed by exhaust systems.

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Other No specific recommendations beyond the required hygiene facilities at the place of work.

Protective equipment

The following are recommendations only. It is the responsibility of the employer / user to conduct a hazard assessment of the process in which this product being used and determine the proper engineering controls and PPE for their process. Additional regulatory and safety information should be sought from local authorities and, if needed, a professional industrial hygienist.

Where there is potential eye or face exposure, safety glasses are recommended. Contact Eye and face protection

lenses are not recommended; they may contribute to severe eye injury.

Hand and body protection Where handling this product it is recommended that skin contact is avoided.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment.

Thermal hazards Not available

Section 09 Physical and Chemical Properties

Appearance

Physical state Solid Colour Brown

Not available Odour Odour threshold Not available

Property

pН 3.5-7.5 @ 5% >160 °C Melting point / freezing point

Initial boiling point and

boiling range

Not available

Flash point Not applicable Not available Evaporation rate **Flammability** Non-flammable Upper flammable limit Not available Lower flammable limit Not available Vapour pressure Not available Vapour density Not available

Relative density bulk: 0.46-0.57 g/cm³ Solubility 1.65 µg/L in water Partition coefficient: n-

octanol/water

Not available

Not available Auto-ignition temperature **Decomposition temperature** 180°C

Viscosity Not applicable Specific gravity Not applicable

Particle characteristics Particle size: 0.315-2.0 mm (>85%)

Particle shape: Powder

Section 10 Stability and Reactivity

Reactivity No specific test data related to reactivity available for this product or its ingredients.

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Stability This product is stable if stored according to the recommendations in Section 07.

Possibility of hazardous

reactions

Hazardous polymerization is not known to occur.

Conditions to avoid Avoid contact with incompatible materials.

Incompatible materials Hazardous decomposition Not available Not available

products

Section 11 Toxicological Information

Acute Toxicity (LD50 / LC50 values)

Component Route **Species** Value Exposure time

Iron hydroxide oxide Oral Rat >10,000 mg/kg bw

> Inhalation Rat >5 mg/L 4 hours

Toxic Health Effect Summary

Chemical

No known effects

characteristics

Not available Skin

Ingestion May cause discomfort or nausea. Inhalation May cause respiratory irritation.

Eve contact May cause eye irritation and redness.

Sensitization This product and its components at their listed concentration have no known sensitizing effects. Mutagenicity This product and its components at their listed concentration have no known mutagenic effects. Carcinogenicity This product and its components at their listed concentration have no known carcinogenic effects.

Reproductive toxicity

This product and its components at their listed concentration have no known reproductive effects.

Specific organ toxicity

This product and its components at their listed concentration have no known effects on specific

organs.

Aspiration hazard Not available **Synergistic**

materials

Not available

Section 12 Ecological Information

Ecotoxicity

Component	Туре	Species	Value	Exposure Time
Iron hydroxide oxide	LC50	Fish	>100 mg/L	96 hours
	EC50	Aquatic invertabrates	>100 mg/L	48 hours
	NOEC	Algea	>20 mg/L	72 hours

Biodegradability The domestic substance list categorizes iron hydroxide oxide as persistent.

Bioaccumulation The domestic substance list categorizes iron hydroxide oxide as non-bioaccumulative.

Insoluble in water Mobility Other adverse effects Not available

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Section 13 Disposal Considerations

Waste From Residues / **Unused Products**

Dispose in accordance with all federal, provincial, and local regulations including the

Canadian Environmental Protection Act.

Contaminated Packaging Do not remove label, follow label warnings even after the container is empty. Empty

containers should be recycled or disposed of at an approved waste handling facility.

Section 14 Transport Information

UN number This product does not meet the definition of dangerous goods per Part 2 of Transport of

Dangerous Goods Regulations

UN proper shipping name

and description

Not available

Transport hazard class(es) Not available Packing group Not available **Excepted quantities** Not available

Not listed as a marine pollutant under Canadian TDG Regulations, schedule III. Environmental hazards

Special precautions No special precautions Transport in bulk ERAP index: not available

MARPOL 73/78 and IBC Code:

This product is not listed in Chapter 17 of the IBC Code.

Additional information Secure containers (full or empty) during shipment and ensure all caps, valves, or closures

are secured in the closed position.

TDG PRODUCT CLASSIFICATION: This product has been classified on the preparation date specified at section 16 of this SDS, for transportation in accordance with the requirements of part 2 of the Transportation of Dangerous Goods Regulations. If applicable, testing and published test data regarding the classification of this product are listed in the references at section 16 of this SDS.

Section 15 Regulatory Information.

NOTE: THE PRODUCT LISTED ON THIS SAFETY DATA SHEET HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN HAZARDOUS PRODUCTS REGULATIONS. THIS SAFETY DATA SHEET CONTAINS ALL INFORMATION REQUIRED BY THOSE REGULATIONS.

All components of this product appear on the domestic substance list.

Section 16 Other Information

Date of latest revision: April 16, 2025

Note: The responsibility to provide a safe workplace remains with the buyer / user. The buyer / user should consider the health hazards and safety information contained herein as a guide and should take those precautions required in an individual operation to instruct employees and develop work practice procedures for a safe work environment. The information contained herein is, to the best of our knowledge and belief, accurate. However, since the conditions of handling and use are beyond our control, we make no guarantee of results, and assume no liability for damages incurred by the use of this material. It is the responsibility of the buyer / user to comply with all applicable laws and regulations regarding handling, using, reselling and shipping this product.

Attention: Receiver of the chemical goods / SDS coordinator

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Bayoxide E 33 ClearTech Industries Inc

As part of our commitment to the RDC Responsible Distribution® initiative, ClearTech Industries Inc. and its associated companies require, as a condition of sale, that you forward the attached Safety Data Sheet(s) to all affected employees, customers, and end-users. ClearTech will send any available supplementary handling, health, and safety information to you at your request.

If you have any questions or concerns please call our customer service center.

References:

- 1) NIOSH Pocket Guide to Chemical Hazards; U.S. Department of Health and Human Services, https://www.cdc.gov/niosh/npg/default.html
- 2) WorkSafe BC E-Limit: Workers' Compensation Foard of British Columbia, https://elimit.online.worksafebc.com/
- 3) ECHA Registered Substance Dossier; European Chemicals Agency, https://echa.europa.eu/registration-dossier/-/registered-dossier/15433
- 4) Transportation of Dangerous Goods Regulations; Transport Canada, https://laws-lois.justice.gc.ca/eng/regulations/SOR-2001-286/index.html
- 5) Globally Harmonized System of Classification and Labeling of Chemicals (GHS) Seventh revised edition
- 6) International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk (IBC Code) 2007 Edition
- 7) The ACS Style Guide

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