

MATERIAL SAFETY DATA SHEET

BORAX

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product Identifier

Code: Borax 250g or Borax 1kg
Product Name: Borax
IC Color: NA

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Preparation: Cleaning agent

1.3. Details of the Supplier of the Safety Data Sheet

Company: COLOR RARE LTD (Canada) | COLOR-RARE L.L.C. (USA)
Tel/Fax:
Internet: www.colorare.ca | www.colorare.us
Emergency No.:

Canada Contact your local Provincial Poison Centre or 911

<http://www.capcc.ca/>

Ontario: 1-800-268-9017

Quebec: 1-800-463-5060

USA American Association of Poison Control Centers 1-800-222-1222

<http://www.aapcc.org/>

SECTION 2: Hazards Identification

2.1. Classification of the substance or mixture.

The product is NOT classified as hazardous pursuant to the provisions set forth in EC Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product requires a safety datasheet that complies with the provisions of EC Regulation 1907/2006 and subsequent amendments. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

2.1.1. Regulation 1272/2008 (CLP) and following amendments and adjustments.

Made in Italy

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Imported and distributed in USA by COLOR-RARE L.L.C and in Canada by COLOR-RARE LTD

Hazard classification and indication:

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Specific toxicity for certain target organs - single exposure, category 3	H335	May irritate the airways.

2.1.2. Directive 67/548/EEC and following amendments and adjustments.

Danger Symbols: Xi
R phrases: 41

The full wording of the Risk (R) and hazard (H) phrases is given in section 16 of the sheet.

2.2. Label elements.

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Pictograms:



Signal words: Danger

Hazard statements:

H318 Causes serious eye damage.
H315 Causes skin irritation.
H335 May irritate the airways.

Precautionary statements:

P264 Wash thoroughly after handling.
P280 Wear protective gloves / eye protection / face protection.
P302+P352 IF ON SKIN: wash with plenty of water
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor
P304+P340 IF INHALED: Transport person outside and hold them in a position where they can breathe comfortably.
P403+P233 Store in a well-ventilated area. Keep the container closed tightly.

Contains: sodium borate / sodium tetraborate / disodium tetraborate.

2.3. Other hazards.

On the basis of available data, the product does not contain any PBT or vPvB in percentage greater than 0,1%.

SECTION 3: Composition/Information on Ingredients

sodium borate / sodium tetraborate / disodium tetraborate.

SECTION 4: First-Aid Measures

General information: It is not recommended to inhale this product, or put into eyes or mouth.

EYES: Immediately rinse eyes with plenty of water for at least 15 minutes, occasionally lifting upper and lower lids, until no evidence of product remains. Get medical attention if pain or irritation persist.

SKIN: Rinse affected area with large amounts of water until no evidence of product remains. Get medical attention if irritation persists.

INGESTION: Treat symptomatically and supportively. Maintain airway and respiration. If vomiting occurs, keep head below hips to prevent aspiration. Dilution by rinsing the mouth and giving water or milk to drink is generally recommended. If unconscious, the victim should not be given anything to drink. Contact physician or local poison control center.

INHALATION: Immediately remove from exposure area to fresh air. Keep affected person warm and at rest. Treat symptomatically and supportively. Contact physician or local poison control center. If breathing has stopped, give artificial respiration, and get medical attention immediately.

NOTE TO PHYSICIAN: The physician's judgment should be used to control symptoms and clinical condition based on the individual reactions of the patient.

SECTION 5: Fire-Fighting Measures

5.1. Extinguishing media

Extinguish using agent suitable for type of surrounding fire. Product is fire retardant.

5.2. Special hazards arising from the substance or mixture

Do not inhale fumes

5.3. Advice for firefighters.

GENERAL INFORMATION

In case of fire, wear a full-face positive-pressure self-contained breathing apparatus and protective suit. Move container from fire area if you can do it without risk. Apply cooling water to sides of containers that are exposed to flames until well after fire is out. Use flooding amounts of water as a fog, solid streams may be ineffective. Avoid inhaling vapors; keep upwind.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS

Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6: Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear skin, eye and respiratory protection as recommended in Section 8. Stop or reduce any leaks if it is safe to do so. Spills present a slipping hazard. Keep unnecessary personnel away. Ventilate spill area if possible. Ensure clean-up is conducted by trained personnel only. Make sure area is slip-free before re-opening to traffic.

6.2. Environmental precautions

Small or household quantities may be disposed in sewer or other liquid waste system. For larger quantities check with your local water treatment plant.

6.3. Methods and material for containment and cleaning up

SMALL SPILLS: Contain and absorb with sand or other absorbent material and place into containers for later disposal. Wash site of spillage thoroughly with water. LARGE SPILLS: Dike far ahead of spill to prevent further movement. Recover by pumping or by using a suitable absorbent material and place into containers for later disposal. Dispose in suitable waste container.

6.4. Reference to other sections

Any information on personal protection and disposal is given in sections 8 and 13.

SECTION 7: Handling and Storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Hygienic measures: Wash hands at the end of work. Preventive skin protection recommended. Do not get in eyes or on skin. Do not take internally. Use with adequate ventilation. Avoid generating aerosols and mists. Keep the containers closed when not in use. Have emergency equipment (for fires, spills, leaks, etc.) readily available.

7.2. Conditions for safe storage, including any incompatibilities

Store in original containers in a cool dry area. Store away from excessive heat and incompatible substances. Storage areas for large quantities (warehouse) should be well ventilated. Keep the containers tightly closed and clearly labeled containers when not in use.

7.3. Specific end use(s).

Information not available.

SECTION 8: Exposure Controls/Personal Protection

8.1. Control parameters

Parameters to be controlled (DE): TLV-TWA: 2 mg/m³

8.2. Exposure controls

This product is a cleaning product. The use of this product by the consumer is safe under normal and recommended use. The information provided below refers to the occupational settings. The following exposure limits exist for the ingredients listed below. The TLV-TWA is the ACGIH Threshold Limit Value – Time Weighted Average, TLV-STEL is the ACGIH Threshold Limit Value – Short-Term Exposure Limit.

INGREDIENT	CAS NUMBER	EXPOSURE LIMIT
Borate Compounds, Inorganic	1303-96-4	TLV-TWA: 2 mg/m ³ , TLV-STEL: 6 mg/m ³ .

ENGINEERING CONTROLS: Provide local exhaust or general dilution ventilation to keep potential exposure to airborne contaminants as low as possible.

RESPIRATOR: Air contamination monitoring should be carried out where dusts are likely to be generated, to assure that the employees are not exposed to airborne contaminants above the permissible exposure limits. If respiratory protection is required, it must be based on the contamination levels found in the workplace, must not exceed the working limits of the respirator and be jointly approved by the National Institute for Occupational Safety and Health and the Mine Safety and Health Administration (NIOSH-MSHA).

FOR FIRE FIGHTING AND OTHER IMMEDIATELY DANGEROUS TO LIFE OR HEALTH CONDITIONS: Any self-contained breathing apparatus that has a full facepiece and is operated in a pressure-demand or other positive-pressure mode. Any supplied-air respirator that has a full facepiece and is operated in a pressure-demand or other positive pressure mode in combination with an auxiliary self-contained breathing apparatus operated in pressure demand or other positive-pressure mode.

CLOTHING: Protective clothing is required where repeated or prolonged skin contact may occur.
GLOVES: Chemical-resistant gloves are required where repeated or prolonged skin contact may occur.
EYE/FACE PROTECTION: Safety glasses are required to prevent eye contact where dusty conditions are anticipated.

SECTION 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Appearance: crystalline powder

Colour:	White
Odour:	none
Odour threshold:	odourless
pH:	9.25
Melting or freezing point:	144 °F (62 °C)
Boiling point:	Not available.
Distillation range:	5.8% @ 20 °C
Flash point:	Product is not flammable, combustible or explosive.
Evaporation Rate:	Not available.
Flammability of solids and gases:	Not available.
Lower inflammability limit:	Not available.
Upper inflammability limit:	Not available.
Lower explosive limit:	Not available.
Upper explosive limit:	Not available.
Vapour pressure:	Not available.
Vapour density:	Not available.
Specific gravity:	48 lbs/cubic ft
Solubility:	Soluble in water
Partition coefficient: n-octanol/water:	Not available.
Ignition temperature:	Not available.
Decomposition temperature:	Not available.
Viscosity:	Not available.
Reactive Properties:	Not available.
VOC (Directive 2004/42/EC):	Not available.
VOC (volatile carbon):	Not available.

SECTION 10: Stability and Reactivity

10.1. Reactivity

Polymerization does not occur under normal temperatures and pressures.

10.2. Chemical stability

Stable under normal ambient temperature (70°F, 21°C) and pressure (1 atm).

10.3. Possibility of hazardous reactions

No hazardous reactions are foreseeable in normal conditions of use and storage.

10.4. Conditions to avoid

Avoid storing in direct sunlight, avoid extremes of temperature, avoid contact with incompatible substances.

10.5. Incompatible materials.

Strong oxidizers, acids, zirconium.

10.6. Hazardous decomposition products.

Thermal decomposition products may include toxic oxides of sodium and boron.

SECTION 11: Toxicological Information

11.1. Information on toxicological effects

PRODUCT INFORMATION SUMMARY: This product is a cleaning product. The use of this product by consumers is safe under normal and recommended use. Direct contact with eyes may cause irritation, with possibility of corneal injury if not removed promptly. It may be harmful if swallowed. Repeated or prolonged excessive exposure with skin can result in defatting and drying which may result in irritation and dermatitis.

COMPONENT ANALYSIS: The following toxicity information is for the hazardous ingredient(s) when used as technical grade and is provided as reference for the occupational settings.

PRODUCT / INGREDIENT	LD50 / DRAIZE SCORE	TOXICITY / IRRITATION RATING
ACUTE ORAL TOXICITY		
Sodium Tetraborate Decahydrate	2,660 mg/kg (rat)	Moderately Toxic

SENSITIZATION: This product is not considered a skin or respiratory sensitizer.

CARCINOGENICITY: None of the ingredients in this product are listed as carcinogens by the International Agency for Research on Cancer (IARC), the National Toxicology Program (NTP) or the Occupational Safety and Health Administration (OSHA).

MUTAGENICITY: None of the ingredients in this product are known to cause mutagenicity.

REPRODUCTIVE/FETAL/DEVELOPMENTAL TOXICITY: Sodium borate and boric acid interfere with sperm production, damage the testes and interfere with male fertility when given to animals by mouth at high doses. Boric acid produces developmental effects, including reduced body weight, malformations and death, in the offspring of pregnant animals given boric acid by mouth.

TARGET ORGAN TOXICITY: None of the ingredients in this product are known to have target organ toxicity.

EPIDEMIOLOGICAL INFORMATION: None of the ingredients in this product are known to have health-related information in working populations.

SECTION 12: Ecological Information

The product is a natural earth mineral and will not produce ecological negative effects. This product is anticipated to be safe for the environment at concentrations predicted in household settings under normal use conditions.

12.1. Toxicity.

Information not available.

12.2. Persistence and degradability.

The persistence and degradability of this product has not been determined.

12.3. Bio accumulative potential.

The bioaccumulation potential of this product has not been determined.

12.4. Mobility in soil.

The mobility of this product (in soil and water) has not been determined.

12.5. Results of PBT and vPvB assessment.

Information not available.

12.6. Other adverse effects.

Information not available.

SECTION 13: Disposal Considerations

13.1. Waste treatment methods.

This product is not hazardous waste and can be disposed of in accordance with federal, provincial and local regulations.

SECTION 14: Transport Information

NO RESTRICTIONS. This material is not considered as dangerous according to the current provisions on road transport of dangerous goods.

14.1. UN number

Not applicable

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

Not applicable

14.6. Special precautions for user

Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Information not relevant

SECTION 15: Regulatory Information

This product is not a dangerous substance according to EEC regulations.

SECTION 16: Other Information

The product is a natural earth mineral constituent.

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Imported and distributed in USA by COLOR-RARE L.L.C and in Canada by COLOR-RARE LTD

The information contained in this document is based on our own knowledge on the date of the current version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product.

This document must not be regarded as a guarantee on any specific product property.

The correct and safe use of this product is the responsibility of the user; therefore, users must, comply with the current health and safety laws and regulations. Colorare is not liable for improper use of the product.

GENERAL BIBLIOGRAPHY

1. Directive 1999/45/EC and following amendments
2. Directive 67/548/EEC and following amendments and adjustments
3. Regulation (EC) 1907/2006 (REACH) of the European Parliament
4. Regulation (EC) 1272/2008 (CLP) of the European Parliament
5. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament
6. Regulation (EC) 453/2010 of the European Parliament
7. The Merck Index. - 10th Edition
8. Handling Chemical Safety
9. Niosh - Registry of Toxic Effects of Chemical Substances
10. INRS - Fiche Toxicologique (toxicological sheet)
11. Patty - Industrial Hygiene and Toxicology
12. N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition