

# SAFETY DATA SHEET

FLOOR QUAT NO. 318

Product ID: FP0318

Revised: 04-17-2017

Replaces: 09-13-2013

## 1. IDENTIFICATION

Product Identifier: FLOOR QUAT NO. 318

Other Identifiers: L0001334B

CAS Number: MIXTURE

Recommended Use: No data available.

Restrictions on Use: No data available.

Hydrite Chemical Co.  
300 N. Patrick Blvd.  
Brookfield, WI 53008-0948  
(262) 792-1450

### EMERGENCY RESPONSE NUMBERS:

24 Hour Emergency #: (414) 277-1311

CHEMTREC Emergency #: (800) 424-9300

## 2. HAZARD(S) IDENTIFICATION

GHS Classification(s): Skin Corrosion/Irritation Category 2  
Serious Eye Damage/Eye Irritation Category 2A  
Reproductive Toxicity Category 2

GHS Label Elements:

GHS Hazard Symbols:



Signal Word: Warning

Hazard Statements: Causes skin irritation.  
Causes serious eye irritation.  
Suspected of damaging fertility or the unborn child.

### Precautionary Statements:

Prevention: Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.  
Wash thoroughly after handling.  
Wear protective gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of water  
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
IF exposed or concerned: Get medical advice or attention.  
Specific treatment (see First Aid on SDS or on this label).  
If skin irritation occurs: Get medical advice or attention.  
If eye irritation persists: Get medical advice or attention.  
Take off contaminated clothing and wash before reuse.

Storage: Store in a secure manner.

Disposal: Dispose of in accordance with local, regional and international regulations.

Hazards Not Otherwise Classified: None known.

Percentage of Components with Unknown Acute Toxicity:

Oral: 34.4 %

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Dermal: 67 %  
Inhalation Vapor: 100 %  
Inhalation Dust/Mist: 100 %

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### Substances/Mixtures:

| <u>Chemical or Common Name/Synonyms</u> | <u>CAS Number</u> | <u>% by Wt.</u> |
|-----------------------------------------|-------------------|-----------------|
| Sodium Tetraborate Decahydrate          | 1303-96-4         | < 40 %          |
| Sodium Tetraborate Pentahydrate         | 12179-04-3        | < 40 %          |

### 4. FIRST-AID MEASURES

#### Description of Necessary Measures:

**Eye Contact:** If in eyes: Immediately flush eyes with plenty of water for at least 15 minutes while holding eyelids open. Tilt head to avoid contaminating unaffected eye. Get immediate medical attention.

**Skin Contact:** If on skin: Flush skin with plenty of water while removing contaminated clothing and shoes. Do not reuse clothing or shoes until cleaned. If irritation develops or persists, get medical attention. Wash with soap and water.

**Inhalation:** If inhaled: Remove to fresh air. Get medical attention if breathing becomes difficult or respiratory irritation occurs.

**Ingestion:** If swallowed: Wash out mouth with water provided person is conscious. Call a physician immediately. Give several glasses of water. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

#### Most Important Symptoms/Effects, Acute and Delayed:

**Eye Contact:** May cause moderate irritation.

**Skin Contact:** May cause mild irritation. Prolonged or repeated exposure may cause: redness, peeling, skin damage.

**Skin Absorption:** May be absorbed through skin. Prolonged contact may cause: skin damage. May result in absorption of boron leading to systemic poisoning as seen with ingestion.

**Inhalation:** May cause mild irritation. Inhalation of high concentrations may irritate: upper respiratory tract. Occasional mild irritation effects to nose and throat may occur from inhalation of dust at levels greater than 10 mg/m<sup>3</sup>.

**Ingestion:** May cause moderate irritation. Symptoms of overexposure may include: nausea, vomiting, diarrhea, weakness, depression, headache, shock, skin rashes, cracked lips, loss of hair. Large amounts may cause:

**Indication of Immediate Medical Attention and Special Treatment Needed:** Observation only is required for adult ingestion in the range of 4-8 grams of Sodium Tetraborate Decahydrate. For ingestion of larger amounts, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analyses of urine or blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning or to guide treatment. Observation only is required for adult ingestion in the range of 4-8 grams of sodium tetraborate pentahydrate. For ingestion of larger amounts, maintain adequate kidney function and force fluids. Gastric lavage is recommended for symptomatic patients only. Hemodialysis should be reserved for massive acute ingestion or patients with renal failure. Boron analyses of urine or blood are only useful for documenting exposure and should not be used to evaluate severity of poisoning or to guide treatment.

### 5. FIRE-FIGHTING MEASURES

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**Extinguishing Media:** For fires in area use appropriate media. For example: Water spray. Dry chemical. Carbon dioxide. Foam.

**Specific Hazards Arising from the Chemical:**

**Fire and Explosion Hazards:** Material will not ignite or burn.

**Hazardous Combustion Products:** Sodium oxide. Sulfur oxides. Irritating and/or toxic gases.

**Special Protective Equipment and Precautions for Fire-Fighters:** Evacuate area of unprotected personnel. Wear protective clothing including NIOSH-Approved self-contained breathing apparatus. Remain upwind of fire to avoid hazardous vapors and decomposition products.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions, Protective Equipment, Emergency Procedures:** Evacuate unprotected personnel from area. Maintain adequate ventilation. Follow personal protective equipment recommendations found in Section 8. Never exceed any occupational exposure limit.

**Methods and Materials for Containment and Clean Up:** Sweep up material into containers and dispose of properly. Flush remaining area with water to remove trace residue and dispose of properly. Avoid direct discharge to sewers and surface waters. Notify authorities if entry occurs.

## 7. HANDLING AND STORAGE

**Precautions for Safe Handling:** Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area. Wash thoroughly after handling.

**Conditions for Safe Storage, Including any Incompatibilities:** Store in a cool, dry place. Keep away from incompatible materials. Dry, indoor storage is recommended. Store at an ambient temperature. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. HYGROSCOPIC MATERIAL. Avoid contact with moisture. Store in closed containers.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**OSHA Exposure Guidelines:**

**Component**

**Limits**

No components found.

**ACGIH Exposure Guidelines:**

**Component**

**Limits**

Sodium Tetraborate Decahydrate

2 mg/m<sup>3</sup> TWA (inhalable particulate matter, listed under Borate compounds, inorganic); 6 mg/m<sup>3</sup> STEL (inhalable particulate matter, listed under Borate compounds, inorganic)

Sodium Tetraborate Pentahydrate

2 mg/m<sup>3</sup> TWA (inhalable particulate matter, listed under Borate compounds, inorganic); 6 mg/m<sup>3</sup> STEL (inhalable particulate matter, listed under Borate compounds, inorganic)

**Engineering Controls:** General room ventilation is required. To keep exposure below established limits, local exhaust may be necessary. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist.

**Individual Protection Measures:**

**Eye/Face Protection:** Wear safety glasses with side shields while handling this product. If dust may be generated, then wear chemical safety goggles. Do not wear contact lenses.

**Skin Protection:** Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Protective gloves: Rubber.

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**Respiratory Protection:** Respiratory protection may be required to avoid overexposure when handling this product. If exposure limits are exceeded, wear: NIOSH-Approved respirator for dusts and mists. DO NOT exceed limits established by the respirator manufacturer. All respiratory protection programs must comply with OSHA 29 CFR 1910.134 and ANSI Z88.2 requirements and must be followed whenever workplace conditions require a respirator's use.

**Other Protective Equipment:** Eye-wash station. Safety shower. Protective clothing.

**General Hygiene Conditions:** Wash with soap and water before meal times and at the end of each work shift.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

**Physical State:** Powder.

**Color:** Blue.

**Odor:** Slight odor.

**Odor Threshold:** N.D.

**pH:** 9.0 (1%)

**Freezing Point (deg. F):** N.D.

**Melting Point (deg. F):** N.D.

**Initial Boiling Point or Boiling Range:** N.D.

**Flash Point:** N.A.

**Flash Point Method:** N.A.

**Evaporation Rate (nBuAc = 1):** N.D.

**Flammability (solid, gas):** N.D.

**Lower Explosion Limit:** N.A.

**Upper Explosion Limit:** N.A.

**Vapor Pressure (mm Hg):** N.D.

**Vapor Density (air=1):** N.D.

**Specific Gravity or Relative Density:** 52 #/ft<sup>3</sup>

**Solubility in Water:** Moderate

**Partition Coefficient (n-octanol/water):** N.D.

**Autoignition Temperature:** No Data

**Decomposition Temperature:** N.D.

**Viscosity:** N.D.

**% Volatile (wt%):** N.D.

**VOC (wt%):** ~0.08-0.16

**VOC (lbs/gal):** N.D.

**Fire Point:** N.D.

## 10. STABILITY AND REACTIVITY

**Reactivity:** No data available.

**Chemical Stability:** Stable under normal conditions.

**Possibility of Hazardous Reactions:** Hazardous polymerization will not occur under normal conditions. Reaction with strong reducing agents, such as metal hydrides or alkali metals, will generate hydrogen gas, which could create an explosive hazard.

**Conditions to Avoid:** When heated it loses water, eventually forming anhydrous borax (Na<sub>2</sub>B<sub>4</sub>O<sub>7</sub>).  
HYGROSCOPIC MATERIAL. Avoid contact with moisture.

**Incompatible Materials:** Strong reducing agents. Metal hydrides. Alkali metals. Elemental zirconium. Aluminum. Magnesium. Strong oxidizing agents.

**Hazardous Decomposition Products:** Sodium oxide. Sulfur oxides.

## 11. TOXICOLOGICAL INFORMATION

**FLOOR QUAT NO. 318****Product ID: FP0318****Routes of Exposure:** Eyes, Ingestion, Inhalation, Skin, Absorption.**Symptoms/Effects: Acute, Delayed and Chronic:****Eye Contact:** May cause moderate irritation.**Skin Contact:** May cause mild irritation. Prolonged or repeated exposure may cause: redness, peeling, skin damage.**Skin Absorption:** May be absorbed through skin. Prolonged contact may cause: skin damage. May result in absorption of boron leading to systemic poisoning as seen with ingestion.**Inhalation:** May cause mild irritation. Inhalation of high concentrations may irritate: upper respiratory tract. Occasional mild irritation effects to nose and throat may occur from inhalation of dust at levels greater than 10 mg/m<sup>3</sup>.**Ingestion:** May cause moderate irritation. Symptoms of overexposure may include: nausea, vomiting, diarrhea, weakness, depression, headache, shock, skin rashes, cracked lips, loss of hair. Large amounts may cause:**Numerical Measures of Toxicity:**

| <u>Component</u>   | <u>Oral LD50</u> | <u>Dermal LD50</u>    | <u>Inhalation LC50</u> |
|--------------------|------------------|-----------------------|------------------------|
| Sodium Tetraborate | No Data          | Rabbit: > 10000 mg/kg | No Data                |
| Decahydrate        |                  |                       |                        |
| Sodium Tetraborate | Rat: 2403 mg/kg  | No Data               | No Data                |
| Pentahydrate       |                  |                       |                        |

**Cancer Information:**

This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.

**Medical Conditions Aggravated by Exposure to Product:** No data available.**Other:** Animal ingestion studies in several species, at high doses, indicate that borates cause reproductive and developmental effects. A human study of occupational exposure to borate dust showed no adverse effect on reproduction. Symptoms of accidental over-exposure to borate products have been associated with ingestion or by absorption through large areas of damaged skin. These may include nausea, vomiting, and diarrhea, with delayed effects of skin redness and peeling.**12. ECOLOGICAL INFORMATION****Ecotoxicological Information:** No data available.**Chemical Fate Information:** No data available.**13. DISPOSAL CONSIDERATIONS****Hazardous Waste Number:** N.A.**Disposal Method:** Dispose of in accordance with all local, state and federal regulations. Since emptied containers retain product residue, follow label warnings even after container is emptied. Chemical additions to, processing of, or otherwise altering this material may make this waste management information incomplete, inaccurate, or otherwise inappropriate. Furthermore, state and local waste disposal requirements may be more restrictive or otherwise different from federal laws and regulations.**14. TRANSPORT INFORMATION****DOT (Department of Transportation):****Proper Shipping Name:** Not regulated by the DOT.**15. REGULATORY INFORMATION**

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**TSCA Inventory Status:** This product or all components of this product are listed on the EPA/TSCA Inventory of Chemical Substances.

Sodium tetraborate pentahydrate appears on the U.S. EPA TSCA Inventory under the cas# representing the anhydrous form of this inorganic salt (1330-43-4).

**SARA Title III Section 311/312 Category Hazards:**

| SARA Title III Section 311/312 Category Hazards: |                          |                    |                         |             |                 |             |           |
|--------------------------------------------------|--------------------------|--------------------|-------------------------|-------------|-----------------|-------------|-----------|
| <u>Immediate (Acute)</u>                         | <u>Delayed (Chronic)</u> | <u>Fire Hazard</u> | <u>Pressure Release</u> |             | <u>Reactive</u> |             |           |
| Yes                                              | Yes                      | No                 | No                      |             | No              |             |           |
| Regulated Components:                            |                          | <u>CAS</u>         | <u>CERCLA</u>           | <u>SARA</u> | <u>SARA</u>     | <u>U.S.</u> | <u>WI</u> |
| <u>Component</u>                                 |                          | <u>Number</u>      | <u>RQ</u>               | <u>EHS</u>  | <u>313</u>      | <u>HAP</u>  | <u>65</u> |
| Sodium Tetraborate Decahydrate                   |                          | 1303-96-4          | No                      | No          | No              | No          | Yes       |
| Sodium Tetraborate Pentahydrate                  |                          | 12179-04-3         | No                      | No          | No              | No          | Yes       |

\*Prop 65 - May Contain the Following Trace Components:  
No data available.

## 16. OTHER INFORMATION

### Hazard Rating System

Health: 1\*

Flammability: 0

Reactivity: 0

\* = Chronic Health Hazard

### NFPA Rating System

Health: 1

Flammability: 0

Reactivity: 0

Special Hazard: None

### SDS Abbreviations

N.A. = Not Applicable

N.D. = Not Determined

HAP = Hazardous Air Pollutant

VOC = Volatile Organic Compound

C = Ceiling Limit

N.E./Not Estab. = Not Established

SDS Prepared by: JAK

Reason for Revision: Changes made throughout the SDS.

Revised: 04-17-2017

Replaces: 09-13-2013

The data in this Safety Data Sheet relates to the specific material designated and does not relate to its use in combination with any other material or process. The data contained is believed to be correct. However, since conditions of use are outside our control it should not be taken as warranty or representation for which HYDRITE CHEMICAL CO. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.