

Safety Data Sheet

FLOOR QUAT NO. 318

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations
Issue date: 1/29/2004
Revision date: 7/18/2024

SECTION 1: Identification

Identification

Product Name : FLOOR QUAT NO. 318
Product code : FP0318
CAS-No. : MIXTURE
Synonyms : No additional information available
Recommended use : No additional information available
Restrictions on use : No additional information available

Supplier

Hydrite Chemical Co.
17385 Golf Parkway
Brookfield, WI, 53045
T 262-792-1450

Emergency telephone number

EMERGENCY RESPONSE NUMBERS:
24 Hour Emergency #: (414) 277-1311
CHEMTREC Emergency #: (800) 424-9300

SECTION 2: Hazard(s) identification

Classification of the substance or mixture

GHS US classification

Serious eye damage/eye irritation Category 2A
Reproductive toxicity Category 2

GHS Label elements, including precautionary statements

GHS US labeling

Hazard pictograms (GHS US) :



Signal word (GHS US) :

Warning

Hazard statements (GHS US) :

Causes serious eye irritation
Suspected of damaging fertility or the unborn child

Precautionary statements (GHS US)

Prevention :

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

Response :

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

FLOOR QUAT NO. 318

Product code: FP0318

If exposed or concerned: Get medical advice/attention.
If eye irritation persists: Get medical advice/attention.

Storage : Store in a secure manner.

Disposal : Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Hazards not otherwise classified

Hazards not otherwise classified : May be harmful if swallowed.

Unknown acute toxicity (GHS US)

Unknown acute toxicity (GHS US) : 98.65% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal)
66% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Dust/Mist))

SECTION 3: Composition/Information on ingredients

Substances/ Mixtures

Name	Product identifier	%	GHS US classification
SODIUM TETRABORATE DECAHYDRATE	CAS-No.: 1303-96-4	25 – 50	Eye Irrit. 2A, H319 Repr. 2, H361
SODIUM TETRABORATE PENTAHYDRATE	CAS-No.: 12179-04-3	25 – 50	Eye Irrit. 2A, H319 Repr. 2, H361

Note: Any chemical identity and/or exact percentage not expressly stated is being withheld as a trade secret or is due to batch variation.

SECTION 4: First-aid measures

Description of first aid measures

First-aid measures general : IF exposed or concerned: Get medical advice/attention.

First-aid measures after inhalation : If inhaled: Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, give artificial respiration, preferably mouth-to-mouth. GET MEDICAL ATTENTION IMMEDIATELY.

First-aid measures after 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.

First-aid measures after 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. Remove contact lenses, if present and easy to do. Continue rinsing.

First-aid measures after ingestion : If swallowed: Call a physician immediately. DO NOT induce vomiting unless directed to do so by a physician. Never give anything by mouth to an unconscious person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Most important symptoms and effects (acute and delayed)

Symptoms/effects after inhalation : May cause moderate irritation. May irritate nose and throat. upper respiratory tract. Avoid breathing dust, mist or spray.

Symptoms/effects after skin contact : May cause slight irritation to the skin. Dust may cause irritation in skin folds or by contact in combination with tight clothing. Prolonged or repeated skin contact may cause drying, cracking, or irritation. redness. Damaged skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Absorption of boron may result in systemic poisoning, as seen with ingestion or absorption through the skin.

Symptoms/effects after eye contact : May cause moderate irritation.

FLOOR QUAT NO. 318

Product code: FP0318

- Symptoms/effects after ingestion : May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Large amounts may cause: Weakness. Headache. shock. Absorption of boron may result in systemic poisoning, as seen with ingestion or absorption through the skin.
- Immediate medical attention and special treatment, if necessary : 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.

SECTION 5: Fire-fighting measures

Extinguishing media

- Suitable extinguishing media : Water spray. Dry powder. Foam. Carbon dioxide.
- Unsuitable extinguishing media : No additional information available

Specific hazards arising from the chemical

- Fire hazard : No fire hazard.
- Hazardous decomposition products : Toxic fumes may be released. Sodium oxide. Sulfur oxides (SO_x).
- Firefighting instructions : Evacuate personnel to a safe area. Do not enter fire area without proper protective equipment, including respiratory protection. Stay upwind/keep distance from source. Move containers from fire area if it can be done without personal risk. Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures

- Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". Do not exceed the occupational exposure limits (OEL).
- Emergency procedures : Evacuate unnecessary personnel. Ventilate spillage area.

Environmental precautions

- Environmental precautions : Avoid release to the environment. Notify authorities if product enters sewers or public waters.

Methods and material for containment and cleaning up

- For containment : No additional information available
- Methods for cleaning up : Take up mechanically (sweeping, shoveling) and collect in suitable container for disposal. Flush remaining area with plenty of water to remove trace residue and dispose of properly.
- Other information : Dispose of materials or solid residues at an authorized site.

SECTION 7: Handling and storage

Precautions for safe handling

- Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.
- Precautions for safe handling : Ensure good ventilation of the work station. Wear personal protective equipment. Avoid contact with skin, eyes and clothing. Avoid dust or mist formation. Avoid breathing dust/fume/gas/mist/vapors/spray. Do NOT taste or swallow.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Wash contaminated clothing before reuse.

FLOOR QUAT NO. 318

Product code: FP0318

Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep in a cool, well-ventilated place away from heat. Store in a secure manner. HYGROSCOPIC MATERIAL. Avoid contact with moisture. Store in a dry place.
Incompatible materials	: Keep away from incompatibles. Refer to Section 10 on Incompatible Materials.
Storage temperature	: ambient
Heat-ignition	: Keep away from all sources of ignition.
Packaging materials	: Keep only in the original container. Do not store in unlabeled or mislabeled containers. Keep container tightly closed.

SECTION 8: Exposure controls/personal protection

Control parameters

Component	ACGIH	OSHA
SODIUM TETRABORATE DECAHYDRATE	6 mg/m ³ STEL (inhalable particulate matter (Borate compounds, inorganic), 2 mg/m ³ TWA (inhalable particulate matter (Borate compounds, inorganic)	No data available
SODIUM TETRABORATE PENTAHYDRATE	6 mg/m ³ STEL (inhalable particulate matter (Borate compounds, inorganic), 2 mg/m ³ TWA (inhalable particulate matter (Borate compounds, inorganic)	No data available

Appropriate engineering controls

Appropriate engineering controls	: General room ventilation is required. Local exhaust ventilation, process enclosures or other engineering controls may be needed to maintain airborne levels below recommended exposure limits. Maintain adequate ventilation. Do not use in closed or confined spaces. Avoid creating dust or mist.
Environmental exposure controls	: Avoid release to the environment.

Individual protection measures/Personal protective equipment

Personal protective equipment	: Wear recommended personal protective equipment. Provide readily accessible eye wash stations and safety showers.
Hand protection	: Protective gloves. Chemical-resistant. Impervious.
Eye protection	: Wear safety glasses with side shields while handling this product. If dust may be generated, then wear chemical safety goggles.
Skin and body protection	: Prevent contact with this product. Wear gloves and protective clothing depending on condition of use. Chemical resistant safety shoes
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 information	: Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Physical state	: Solid
Color	: Blue.
Odor	: Slight odor.

FLOOR QUAT NO. 318

Product code: FP0318

Odor threshold	: No data available
pH	: 9 (1%)
Melting point	: No data available
Freezing point	: Not applicable
Boiling point	: No data available
Flash point	: Not applicable
Relative evaporation rate (butyl acetate=1)	: No data available
Flammability (solid, gas)	: Non flammable.
Vapor pressure	: No data available
Relative vapor density at 20°C	: No data available
Relative density	: No data available
Solubility	: moderate.
Partition coefficient n-octanol/water (Log Pow)	: No data available
Auto-ignition temperature	: Not applicable
Decomposition temperature	: No data available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: No data available
Explosion limits	: Not applicable
Explosive properties	: No data available
Oxidizing properties	: No data available
VOC content	: 0.08 – 0.16 %

SECTION 10: Stability and reactivity

Information on stability and reactivity

Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	: Stable under normal conditions.
Possibility of hazardous reactions	: Hazardous polymerization will not occur under normal conditions. Reacts with strong reducing agents. May result in a violent reaction with evolution of heat and harmful gases.
Conditions to avoid	: Keep away from heat, sparks and flame. HYGROSCOPIC MATERIAL. Avoid contact with moisture.
Incompatible materials	: strong oxidizing agents. strong reducing agents. alkali metals. metal hydrides. aluminum. magnesium. elemental zirconium.
Hazardous decomposition products	: Sodium oxide. Sulfur oxides (SOx).

SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

Numerical measures of toxicity

Component	Oral LD50	Dermal LD50	Inhalation LC50
SODIUM TETRABORATE DECAHYDRATE	Rat: 3493 mg/kg	Rabbit: > 10000 mg/kg	Rat: > 2 mg/m ³
SODIUM TETRABORATE PENTAHYDRATE	Rat: 2403 mg/kg	Rat:> 2000 mg/kg Source: ECHA	Rat (Dust/Mist): > 2.04 mg/l

Skin corrosion/irritation	: Not classified
Serious eye damage/irritation	: Causes serious eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified

FLOOR QUAT NO. 318

Product code: FP0318

Carcinogenicity	: Not classified This product does not contain 0.1% or more of the known or potential carcinogens listed in NTP, IARC, or OSHA.
Reproductive toxicity	: Suspected of damaging fertility or the unborn child.
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified
Viscosity, kinematic	: Not applicable
Likely routes of exposure	: Skin and eye contact. Ingestion. Inhalation.
Symptoms/effects after inhalation	: May cause moderate irritation. May irritate nose and throat. upper respiratory tract. Avoid breathing dust, mist or spray.
Symptoms/effects after skin contact	: May cause slight irritation to the skin. Dust may cause irritation in skin folds or by contact in combination with tight clothing. Prolonged or repeated skin contact may cause drying, cracking, or irritation. redness. Damaged skin. Repeated exposure to this material can result in absorption through skin causing significant health hazard. Absorption of boron may result in systemic poisoning, as seen with ingestion or absorption through the skin.
Symptoms/effects after eye contact	: May cause moderate irritation.
Symptoms/effects after ingestion	: May cause gastrointestinal irritation, nausea, vomiting and diarrhea. Large amounts may cause: Weakness. Headache. shock. Absorption of boron may result in systemic poisoning, as seen with ingestion or absorption through the skin.
Medical Conditions Aggravated by Exposure	: Eye disorders. Skin disorders. Dermatitis.
Other information	: 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. No target organ has been identified in humans. High dose animal ingestion studies indicate the testes are the target organs in male animals.

SECTION 12: Ecological information

Toxicity

No additional information available

Persistence and degradability

No additional information available

SECTION 13: Disposal considerations

Disposal methods

Waste treatment methods	: Dispose of in accordance with all local, state and federal regulations.
Additional information	: Do not re-use empty containers. DO NOT pressurize, cut, weld, solder, drill, grind or expose empty containers to heat, flame, sparks or other sources of ignition. Since emptied containers retain product residue, follow label warnings even after container is emptied. Disposal methods identified are for the product as sold. For proper disposal of used material, an assessment must be completed to determine the proper and permissible waste management options permitted under applicable rules, regulations and/or laws governing your location.

SECTION 14: Transport information

Modes of transport

DOT (Department of Transportation):

Not regulated by the DOT.

IMDG (International Maritime Dangerous Goods Code):

Not regulated by the IMDG.

IATA (International Air Transport Association):

Not regulated by the IATA.

FLOOR QUAT NO. 318

Product code: FP0318

Environmental hazards

No additional information available

Other transport information

No additional information available

SECTION 15: Regulatory information**US Federal regulations**

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

This product or mixture is not known to contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

SODIUM TETRABORATE PENTAHYDRATE (12179-04-3)

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

US State regulations

Component	CAS No.	State or local regulations
SODIUM TETRABORATE DECAHYDRATE	1303-96-4	Wisconsin HAP
SODIUM TETRABORATE PENTAHYDRATE	12179-04-3	Wisconsin HAP

SECTION 16: Other information**Hazard Rating System**

Health: 1 *
Flammability: 0
Physical: 0

NFPA Rating System

NFPA health hazard: 1
NFPA fire hazard: 0
NFPA reactivity: 0

Abbreviations and acronyms

HAP	Hazardous Air Pollutant
VOC	Volatile Organic Compound
STEL	Short Term Exposure Limit
TWA	Total Average Weight

FLOOR QUAT NO. 318

Product code: FP0318

Abbreviations and acronyms	
RQ	Reportable Quantity

Revision date: 7/18/2024

Supersedes: 7/19/2023

Issue date: 1/29/2004

Indication of changes: Changes made throughout the SDS. New format.

SDS Prepared by: EP

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.