

MI-CLEAN 59

Revised: 3/12/15

1 IDENTIFICATION

Product Code :2002018

Recommended use of the chemical and restrictions on use:Industrial applications

Hubbard-Hall Inc.

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2 HAZARDS IDENTIFICATION



Signal Word: DANGER

Hazard Category: Skin Corrosion/Irritation Hazard Category 2

Eye Damage/Irritation Hazard Category 2B

Toxic to Reproduction Hazard Category 1B

Hazard Statements: Causes skin irritation.

Causes eye irritation.

May damage fertility or the unborn child.

Prevention: Wash skin thoroughly after handling.

Wear rubber gloves, goggles and chemical protective clothing.

Obtain special instruction before use.

Do not handle until all safety precautions have been read and understood.

Response: If on skin: Wash with plenty of water.

Specific treatment - refer to poison center or doctor for advice.

If skin irritation occurs: Get Medical advice/attention.

Take off contaminated clothing and wash it before reuse.

If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to

If eye irritation persists: Get medical attention .

If exposed or concerned: Get medical advice/attention.

Disposal: Dispose of contents/container in accordance with local, regional, national, or international regulations.

Components with Unknown Dermal = 85%

Acute Toxicity

3 COMPOSITION INFORMATION

Chemical Name	Common Name And Synonyms	CAS No. and other Unique identifiers	Concentration %
Sodium Tetraborate Pentahydrate		1303-96-4	<10%
Sodium Tripolyphosphate	-	7758-29-4	~45%
Sodium Carbonate	Soda Ash	497-19-8	~5%
Tetrasodium Pyrophosphate	-	7722-88-5	<45%

4 FIRST AID**After Skin Contact:**

If on skin(on hair): Take off immediately all contaminated clothing. Rinse with water/safety shower. Call doctor if irritation persists.

After Eye Contact:

If in eyes: Rinse cautiously for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritated, call doctor.

After Ingestion:

If swallowed: Rinse mouth. Do NOT induce vomiting.

If swallowed: Rinse mouth. Call a doctor.

Most Important Symptoms/Effects**Eye:**

Irritation of eyes and skin.

Skin:

This product can cause mild, transient skin irritation. The severity of irritation will depend on the amount of material that is applied to the skin and the speed and thoroughness that it is removed. Symptoms include redness, itching, and burning of the skin. Repeated or prolonged skin contact can produce moderate irritation(dermatitis).

Indication of immediate medical attention:

Provide general supportive measures and treat symptomatically. Symptoms may be delayed. Keep victim under observation.

5 FIRE FIGHTING MEASURES**Suitable and Unsuitable extinguishing media:**

Will not burn or support combustion. Use extinguishing media appropriate for surrounding fire, such as water spray, dry chemical, foam or carbon dioxide.

Specific hazards arising from the chemical:

Carbon oxides may be produced.

Special protective equipment and precautions for firefighter

Wear chemical resistant protective equipment and self contained breathing apparatus (SCBA).

6 ACCIDENTAL RELEASE MEASURES**Methods and Materials for containment & cleaning up:**

Stop spill at source.

Caution: Spilled material may be slippery.

7 HANDLING AND STORAGE**Precautions for safe handling:**

Wash hands thoroughly after handling.

Wear rubber gloves, goggles and chemical protective clothing.

Eating, drinking and smoking in the work area is prohibited.

Conditions for safe storage,
inc any incompatibilities:

Keep container tightly closed.

8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Name	Std.	TWA-8hrs	STEL - 15 min.
Sodium Tetraborate Pentahydrate	ACGIH	2 mg/m3	-
Sodium Tripolyphosphate	Not established		
Sodium Carbonate	Not established		
Tetrasodium Prophosphate	ACGIH	5 mg/m3	

ACGIH - American Control of Governmental Hygenists
OSHA - Occupational Safety and Health Administration

Protective Gloves: Rubber gloves

Eye Protection: Wear chemical safety goggles.

9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance: White to off-white granular mixture
 Odor: NA
 Odor Threshold: N/A
 PH: 9-10 (10% solution)
 Melting Point/Freezing Point: N/A
 Initial Boiling Point and Boiling Range: N/A
 Flash Point: None
 Evaporation Rate: N/A
 Flammability (solid, gas): Non flammable
 Upper/Lower flammability or explosive limits: N/A
 Vapor Pressure: N/A
 Vapor Density: N/A
 Relative Density: N/A
 Solubility (ies): Complete in water
 Partition Coefficient; n-octanol/water: N/A
 Auto-ignition Temperature: N/A
 Decomposition Temperature: N/A
 Viscosity: N/A

10 STABILITY AND REACTIVITY

Reactivity: Hazardous Polymerization will not occur.
 Chemical Stability: Stable under normal conditions
 Possibility of Hazardous Reactions: Hazardous polymerization does not occur.
 Incompatible Materials: Avoid contact with strong oxidizers and strong acids.

11 TOXICOLOGICAL INFORMATION

Oral Administration:	Sodium Tetraborate Pentahydrate-LD50(Rat)-3305 mg/kg
Oral Administration:	Sodium Tripolyphosphate-LD50(Rat)-3900 mg/kg
Oral Administration:	Sodium Carbonate-LD50(Rat)-4090 mg/kg
Oral Administration:	Tetrasodium Pyrophosphate-rat-LD50-1-3 g/kg
Dermal administration:	Sodium Tetraborate Pentahydrate-LD50(Rabbit)->2000 mg/kg
Dermal administration:	Sodium Carbonate-LD50(Rabbit)->2000 mg/kg
Immediate effects:	Irritation/ burns of skin and eyes.
Cancer Hazard:	Not listed by IARC, NTP, OSHA, ACGIH
Routes of Exposure	Eyes, Skin, Inhalation, Ingestion
Reproductive Toxicity	Animal feeding studies with chemically related boric acid/ and or borax in rat, mouse and dog at high doses, have demonstrated effects on fertility and testes. Studies with chemically related boric acid in the rat, mouse and rabbit, at high doses, demonstrate developmental effects on the fetus, including fetal weight loss and minor skeletal variations. The doses administered were many times in excess of those to which humans would normally be exposed.

12 ECOLOGICAL INFORMATION

Persistence and Degradability:	Sodium Tetraborate Pentahydrate is an inorganic substance and does not biodegrade .
Biotic degradability:	Under environmental conditions, borates decompose to undissociated boric acid.
Bioaccumulation potential:	No data available
Water result:	Unlikely
Soil/Sediment Result:	Disperses in water.
	No data available

13 DISPOSAL CONSIDERATION

Dispose of in accordance with local, state and federal regulations.

14 TRANSPORT INFORMATION

UN Proper Shipping Name: NOT D.O.T. REGULATED

15 REGULATORY INFORMATION

HMIS: Health: 2 Flammability: 0 Reactivity: 0

16 OTHER INFORMATION

Disclaimer: The information is based on our knowledge to date but does not constitute an assurance of product properties and does not imply a legal contractual relationship.