

MATERIAL SAFETY DATA SHEET

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1. PRODUCT IDENTIFICATION

CATALOG NO.: 9110
 PRODUCT NAME: Phosphate Slide (High), 5-100 ppm
 CHEMICAL FAMILY: Inorganic acid/salt solutions

2. INGREDIENTS

INGREDIENT	CAS NO.	%	NATURE OF HAZARD
Hydrochloric acid	7647-01-0	<38 (w/v)	Corrosive acid
Nonhazardous ingredients	N/A	<5	None
Deionized water	7732-18-5	to 100	None

Note: Percentages reflect the highest salt and acid concentrations of the color standards. The remaining color standards contain smaller percentages.

3. PHYSICAL/CHEMICAL CHARACTERISTICS

STATE: Liquid in glass APPEARANCE: Clear, dk blue ODOR: Acrid
 BOILING PT (F): 123 pH: <.01 SPECIFIC GRAVITY: 1.19
 VAPOR PRESSURE (mm Hg): 160 VAPOR DENSITY (AIR=1): 1.3
 PERCENT VOLATILE BY VOLUME: 95 SOLUBILITY IN WATER: Soluble

4. FIRE, EXPLOSION HAZARD AND REACTIVITY DATA

FLASH PT: NA METHOD: NA
 FLAMMABLE LIMITS: LEL: NA UEL: NA
 EXTINGUISHING MEDIA: Dry chemical, carbon dioxide, water spray or foam
 SPECIAL PROCEDURES: Wear self-contained (positive pressure if available) breathing apparatus and special protective clothing
 FIRE/EXPLOSION HAZARDS AND HAZARDOUS DECOMPOSITION PRODUCTS: Contact with metals may produce hydrogen gas. May emit toxic fumes of hydrogen chloride, chlorine.
 NFPA CODE: Health: 3 Flammability: 0 Reactivity: 2
 Specific: N/A
 CONDITIONS TO AVOID: Extreme heat, temperatures. Contact with metals, alkalis, strong oxidizers.

5. HEALTH HAZARD DATA

INGREDIENT: Hydrochloric acid
 TOXICITY: LD50(orl-rbt): 900 mg/kg LC50(ihl-rat): 3124 ppm/1H
 PEL: 7 mg/m3 (ceiling) TLV: 7 mg/m3 (ceiling)
 STEL: NE

ROUTE(S) OF ENTRY: Inhalation X Ingestion X Skin X
TARGET ORGAN(S): Eyes, skin, liver, respiratory tract
CARCINOGENICITY: NTP No IARC No OSHA No
HEALTH HAZARDS AND SYMPTOMS OF EXPOSURE:
EYES: Corrosive. Contact may cause stains and severe burns.
SKIN: Corrosive. Contact may cause stains and severe burns.
INGESTION: Corrosive. May cause severe gastrointestinal irritation,
cyanosis, headache, dizziness, burns of mouth, esophagus and
stomach.
INHALATION: Irritant
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: Eye, skin, and
respiratory conditions

6. PRECAUTIONARY MEASURES

PROTECTIVE EQUIPMENT: Rubber gloves, safety glasses, lab coat,
rubber apron, adequate ventilation
HANDLING: Avoid contact with eyes, skin, and clothing. Avoid
breathing chemical. Wash thoroughly after handling.
STORAGE: Cool, dry, well-ventilated area. Avoid direct sunlight.

7. EMERGENCY AND FIRST AID PROCEDURES

EYE AND SKIN CONTACT: Immediately flush eyes with water for 20
minutes or until chemical is removed. Call physician. Wash skin
thoroughly with baking soda, soap and water.
INGESTION: Give large amounts of water or large amounts of water
with milk of magnesia. Call physician. DO NOT INDUCE VOMITING.
DO NOT give anything by mouth to a person who is unconscious,
rapidly losing consciousness or convulsing.
INHALATION: Remove to fresh air. Call physician.

8. SPILL AND DISPOSAL PROCEDURES

SPILL OR RELEASE: Neutralize with soda ash. Absorb with vermiculite
or other inert material. Containerize for later disposal.
DISPOSAL: Method to comply with all local, state, and federal
regulations.

NA = Not applicable
ND = Not determined
NE = Not established

This Material Safety Data Sheet has been prepared in accordance with
29 CFR Part 1910.1200 and contains information believed to be
accurate and complete at the date of preparation. However, no
warranty is expressed or implied. Advice given under "Spill and
Disposal Procedures" assumes compliance with federal, state, and
local regulations regarding the disposal of hazardous waste.

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