

IDENTITY

DroGo® "B"

SECTION I

Company: Haddon Holdings 8441 Main Street Vancouver, B.C. V5X 3Y2	EMERGENCY TELEPHONE NUMBER	800-424-9300 or 703-527-3887
	Phone: 604-325-3281	1-888-4-HADDON Fax 604-325-4382
	Valid: Nov. 2016 - Nov. 2019	

2. Composition / Information on ingredients

Name	CAS#	Wt%	OSHA PEL	ACGIH TLV
Sodium Hydrosulfite	7775-14-6	<35		10 mg/m ³
Sodium Metabisulfite	7681-57-4	<5	5 mg/m ³	5 mg/m ³
Tetrasodium Pyrophosphate	7722-88-5	<35	5 mg/m ³	5 mg/m ³
Sodium Tripolyphosphate	7758-29-4			10 mg/m ³

3. Hazard(s) identification

Emergency overview: White Powder with Sulfur like odor. Contact with small amount of water or humid atmosphere may cause chemical reaction. In case of fire: oxides of sulfur and phosphorus.

Eye Contact: May cause moderate to severe eye irritation.

Skin Contact: May cause skin irritation.

Inhalation: Can cause upper respiratory tract, nose and throat irritation. Persons with a know respiratory system response such as wheezing or asthmatic reactions to irritants must be excluded from exposure.

Ingestion: Can cause abdominal discomfort with burning sensation and coughing.

Chronic hazards: May cause sensitization in persons allergic to sulfites.

Physical hazards: Spilled material could be slippery.

HMIS RATINGS	
HEALTH	3
FLAMMABILITY	1
PHYSICAL HAZARD	2
PERSONAL PROTECTION	

Hazard Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

HMIS® III: The HMIS® III ratings displayed on the front of this MSDS are from the HMIS® Third Edition. There have been significant changes made to the system. "PH" stands for "Physical Hazard" as defined in the OSHA Haz Com Standard and replaces the former code "R" for "Reactivity." For a more detailed explanation of the system and the ratings, please contact our Health, Safety, and Environmental Staff at 201-997-3300.

HMIS® III is a trademark of The National Paint and Coatings Association (NPCA).

4. First Aid Measures

Eye contact:

If in eyes, immediately flush with running water for at least 15 minutes. Get emergency medical attention.

Skin contact:

If on skin, flush immediately with water for at least 15 minutes. Wash contact area with soap and water. Remove contaminated clothing, wash before re-use. If irritation occurs, get medical attention.

Inhalation:

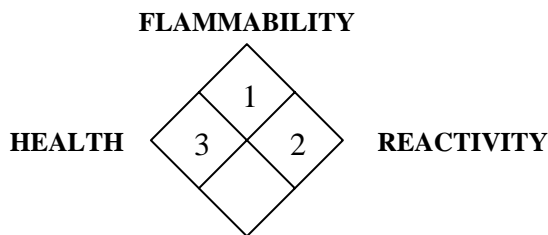
If inhaled, move affected person to fresh air. If drowsiness, dizziness or irritation of nose persists; get immediate emergency medical attention.

Ingestion:

If swallowed, get emergency medical attention (Never give anything by mouth to an unconscious person.).

5. Firefighting Measures

NFPA RATINGS



Hazard Scale: 0 = Minimal, 1 = Slight, 2 = Moderate, 3 = Serious, 4 = Severe

Fire Fighters should use NIOSH approved SCBA & full protective equipment when fighting chemical fire. Use water spray to cool nearby containers exposed to fire.

Suitable extinguishing media: Flood with large amounts of water.

Unsuitable extinguishing media: ND

Specific hazards in case of fire: Oxides of sulfur and phosphorus.

6. Accidental Release Measures

Environmental precautions:

Dispose in accordance with local regulations.

Methods and materials for containment and cleaning up:

Recover as a dry material. (Material considered hazardous because of reactivity with moisture).

Do not flush into storm sewer or contaminate ground water.

7. Handling and storage

Handling: Keep separate from oxidizers, acids and flammable materials.

Storage: Keep container sealed when not in use. Store in dry storage place and at temperature below 50°C.

Do not store in a substitute container.

8. Exposure controls / personal protection

Information on the system design:

Name	Concentration (C) wt%	Air Concentration (8 Hour)
Sodium Hydrosulfite	<35%	10 mg/m ³
Sodium Metabisulfite	<5%	5 mg/m ³
Tetrasodium Pyrophosphate	<35%	5 mg/m ³
Sodium Tripolyphosphate		10 mg/m ³

Engineering Controls:

Use in well-ventilated area with local exhaust. An eye wash station should be within direct access. Access to safety shower or washing station is recommended.

Respiratory protection:

None needed when used with adequate ventilation and local exhaust.

Eye protection:

Safety glasses with side shields or chemical goggles must be worn.

Do not wear contact lenses.

Skin protection:

Wear rubber gloves, rubber apron and proper protective clothing. Wash thoroughly after handling. Do not smoke, eat or drink in work area.

9. Physical and chemical properties

Physical state: Powder

Colour White

Odour: Sulfur like Odor

pH-value: Not applicable

Initial boiling point: Not applicable

Flash point: Not applicable

Relative density: ~1.1 g/cm³ at 20°C

Solubility: soluble in water <17% at 20°C

10. Stability and reactivity

Chemical stability: Stable, if used according to specifications.

Possibility of hazardous reactions: Moisture, Oxidizing Agents, or acidic materials.

Conditions to avoid: Avoid moisture and heat above 50°C.

Materials to avoid: Acids, Oxidizing Agents.

Hazardous decomposition products: In case of fire; Oxide of Sulfur and Phosphorus.

11. Toxicological information

Acute Toxicity:

Acute Toxicity:		
Test	Results	Basis
Oral LD ₅₀	Not available	
Dermal LD ₅₀	Not available	
Inhalation LD ₅₀	Not available	
Eye Irritation	moderate to severe	Product ingredients

Chronic Toxicity:

Test	Results
Dermal Sensitization	Not Available
Carcinogenicity	Not Listed IARC, NTP, OSHA

12. Ecological information

Aquatic Toxicity: Not Determined.

13. Disposal considerations

Waste Disposal:

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

14. Transport information

Land (DOT): Not Regulated.

Land (TDG): Not Regulated.

SEA (IMDG): Not Regulated.

AIR (IATA): Not Regulated.

15. Regulatory information

All components are on TSCA (U.S.A), EINECS (EUROPE), AICS (Australia), ENCS (Japan), ECL (Korea), and DSL (Canada).

U.S. Regulations:

U.S. Superfund Amendments and Reauthorization Act (SARA) Title III:

SARA (311/312) HAZARD CATEGORIES: Fire

SARA 313: This product contains the following SARA 313 Toxic Release Chemicals.

Chemical Name	CAS Number	Concentration

The following product components are cited on the lists below:

Chemical Name	CAS Number	% W/W Range	List Citations
Sodium Hydrosulfite	7775-14-6	15 – 40	WHMIS ¹
Sodium Metabisulfite	7681-57-4	1 – 5	HPA, WHMIS ²
Tetrasodium Pyrophosphate	7722-88-5	30 – 60	HPA, WHMIS ³

¹B6: Reactive Flammable Material – becomes spontaneously combustible on contact with water vapour.

¹F: Dangerously Reactive Material - reacts vigorously with water releasing a very toxic gas: SO₂

²Uncontrolled product according to WHMIS classification criteria.

³D2B Toxic Material Causing Other Toxic Effects - eye irritation in animals.

Note: Citation descriptions are for individual components only. DroGo “B” is not spontaneously combustible.

16. Other information

ACGIH = American Conference of Governmental Industrial Hygienists

AICS = Australian Inventory of Chemical Substances

DOT = Department of Transportation

DSL = Domestic Substance List (Canada)

ECL = Existing Chemicals List

EINECS = European Inventory of New and Existing Chemicals

ENCS = Inventory of Existing and New Chemicals Substances

HMIS = Hazardous Materials Identification System

HPA = Hazardous Product Act (Canada)

IATA = International Air Transportation Association

IMDG = International Maritime Dangerous Goods

ND = Not Determined

NFPA = National Fire Protection Association

NIOSH = National Institute for Occupational Safety and Health

OSHA = Occupational Safety & Health Administration

PEL = Permissible Exposure Limits

SCBA = Self Contained Breathing Apparatus

STEL = Short Term Exposure Limits

TDG = Transportation of Dangerous Goods (Canada)

TLV = Threshold Limit Values

TSCA = Toxic Substance Control Act

TWA = Time-Weighted Average

WHMIS = Workplace Hazardous Material Information System (Canada)

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