



Vehicle Care Products



TYPHOON

Typhoon is a liquid alkaline detergent designed as a presoak for one and two step touchless car washes. Remarkably improved cleaning performance over other presoaks. It is also used as a step one presoak for high pressure automatics or a second step presoak in a two step application following a safe acid presoak. **Typhoon** can be used as a non-corrosive high pressure detergent for truck and other vehicle surfaces including polished aluminum. Excellent high pressure prep gun soap for hard-to-remove road film in friction tunnels.

FEATURES & BENEFITS

- **Penetrates and removes tough road film and grime**
- **Removes eyebrows from windshields**
- **Aluminum safe**
- **Hard water tolerant**
- **Pleasant scent**
- **Great car wash prep gun soap**
- **Used in truck washing of aluminum and painted surfaces, fleet washing, highway tunnel cleaning, railroad diesel engine cleaning, and floor scrubbing machines**

APPLICATION

Product Use	Recommended Dilution	Usage per Car
Touchless Automatics	1:16 to 1:32	4 to 8 oz. per gallon
Prep Guns	1:128 to 1:256	1/2 to 1 oz. per gallon
Wheel Washers	1:10 to 1:15	8 1/2 to 13 oz. per gallon

Please note that dilution ratios may need to be adjusted based upon conditions.

NOTE: See reverse side for MSDS information and General Cautions for Use

Visit our website at www.ver-techlabs.com

MATERIAL SAFETY DATA SHEET

(COMPLIES WITH 29CFR 1910.1200)

SECTION I - CHEMICAL PRODUCT & COMPANY IDENTIFICATION

Identity (As Used on Label and List): Typhoon
Product Class: Powdered Detergent
Emergency Telephone Number: 800-535-5053 (INFOTRAC)
Telephone Number for Information: 763-509-7937
Manufacturer's Name and Address:
Ver-tech Labs
6801 Bleck Drive
Rockford, MN 55373

SECTION II - COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Components (Specific Chemical Identity):

Chemical	Common Name(s)	%
A	Sodium Metasilicate Pentahydrate CAS #9004-82-4	
B	Sodium Carbonate CAS #497-19-8	

SECTION III - HAZARDS IDENTIFICATION

Emergency Overview

Appearance and Odor: Pink liquid, mild aroma.

Primary Hazards: Corrosive

Potential Health Hazards

Route(s) of Entry: Skin **Absorption:** Ingestion: X Inhalation: X

Eye: May cause irritation on contact

Skin: May cause irritation

Ingestion: Harmful if swallowed.

Inhalation: No hazardous vapors.

Signs and Symptoms of Exposure: Cause's irritation and possible damage to eyes and skin on direct contact. Symptoms may be delayed.

Carcinogenicity: NTP? No IARC Monographs? No

OSHA Regulated? No

Target Organ (s): No additional data

Medical Conditions Generally Aggravated by Exposure: Dermatitis

Health Hazards, Chronic: No effects expected.

SECTION IV - FIRST AID MEASURES

Emergency and First Aid Procedures:

If Swallowed: Do not induce vomiting. Drink water in large amounts and call a physician immediately. Never give anything by mouth to an unconscious person. **Eye Contact:** Flush eyes with running water for at least 15 minutes. If irritation persists, obtain medical attention. **Skin Contact:** Flush thoroughly with cool water. Remove and wash contaminated clothing before reuse.

Sources Used: Raw material data, general toxicology from the trade for similar products.

SECTION V - FIRE FIGHTING MEASURES

Flammability: No **Autoignition Temperature:** N. Ap.

Flash Point (method used): None

Flammable Limits: N. Ap.

LEL

UEL

Extinguishing Media: N. Ap.

Water?

Foam?

Water Fog?

Alcohol Foam?

CO₂?

Dry Chemical?

Vaporizing Liquid?

Other?

Special Fire Fighting Procedures: N. Ap.

Unusual Fire and Explosion Hazards: N. Av.

TDG Flammability Classification: Non-flammable

Sensitivity to Mechanical Impact: None

Sensitivity to Static Discharge: None

SECTION VI - ACCIDENTAL RELEASE MEASURES

Steps to be Taken in Case Material is Released or Spilled:

Contain spill. Collect spill. Thoroughly rinse affected area with water.

SECTION VII - HANDLING AND STORAGE

Precautions to be Taken in Handling and Storing:

Normal care in handling and storage.

Other Precautions: Keep out of reach of children. Keep from freezing.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory Protection (Specify Types): Do not breath dust

Ventilation: Local Exhaust: Not required **Special:** Not required

Mechanical (General): Not required **Other:** Not required

Protective Gloves: chemical resistant

Eye Protection: Not required **Footwear:** Chemical resistant

Other Protective Clothing or Equipment: Not required

Work/Hygienic Practices: No special procedures

SECTION IX - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point: Approximately 212°F (100°C)

pH: 12.7

Specific Gravity (H₂O) = 1: 1.07

% Volatile: N. Ap.

Vapor Density (Air = 1): N. Av.

Odor Threshold: N. Av.

Evaporation Rate (Butyl Acetate = 1): N. Av.

Oil/Water Distribution

Solubility in Water: Complete

Coefficient: N. Av.

Vapor Pressure (MM HG): N. Av.

Melting Point: N. Ap.

SECTION X - STABILITY AND REACTIVITY

Stability: Unstable: Stable: X

Conditions to Avoid: N. Ap.

Incompatibility (materials to avoid): N. Av.

Hazardous Decomposition or By-products: N. Av.

Hazardous Polymerization: May occur: Will not occur: X

Conditions to Avoid: N. Ap.

SECTION XI - TOXICOLOGICAL INFORMATION

Chemical	OSHA PEL	ACGIH TLV	Recom.	LD50	LC50
A	2mg/m3	2mg/m3	N. Ap.	800 mg/kg	N. Av.

B	2mg/m3	2mg/m3	N. Av.	140-340 mg/kg (rat, oral)	N. Av.
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Teratogen, Mutagen, Reproductive Toxin Status: No

Toxicologically Synergistic Products: N. Av.

SECTION XII - ECOLOGICAL INFORMATION

Ecotoxicological Information: N. Av.

Chemical Fate Information: N. Av.

SECTION XIII - DISPOSAL CONSIDERATIONS

Waste Disposal Method:

Dispose of spilled material in accordance with local, state and federal regulations. Waste from normal cleaning procedures may be sewer, depending on the materials and/or contaminants being cleaned as well as state, federal and local sewer commission regulations.

RCRA Hazard Class: D002 Characteristic Corrosive

SECTION XIV - TRANSPORT INFORMATION

Shipping Classification: Cleaning compound liquid

UN Number: NA

Packing Group: NA

SECTION XV - PREPARATION DATA

Prepared By: Safety and Health Department

Telephone Number: 763-509-7937

Date: 6-9-2009

SECTION XVI - REGULATORY INFORMATION

US Federal Regulations

TSCA Status: All ingredients listed.

CERCLA Reportable Quality: None

SARA Title III

Section 302 Extremely Hazardous Chemicals: None

Section 311/312 Hazard Category: None

Section 313 Toxic Chemicals: None

SECTION XVII - OTHER INFORMATION

None

N. Ap. - Not Applicable; N. Av. - Not Available

NFPA SYSTEM

2 A. Health Hazard 0 A. Fire Hazard 0 A. Reactivity Hazard

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