

Safety Data Sheet

SECTION 1: Identification

Product Name Typhoon
Product Code 21-69

Recommended use Acid based Wheel Cleaner & Aluminum Brightener

Manufacturer Mark V Products
 400 El Sobrante Road
 Corona, CA 92879
 (951) 280-9799

Emergency Phone # Chemtrec (800) 424-9300

SECTION 2: Hazard Identification

Classification of Substance Mixture

Health Statements: Danger, Poison, Corrosive
 H30: Harmful if swallowed.
 H315: Causes skin Irritation
 H319: Causes serious eye Irritation
 H332: Harmful if inhaled



Label Elements

Exposure routes Inhalation, Skin Absorption, Skin contact, Eye Contact, Ingestion

Eye Contact: May cause serious eye irritation. Symptoms include stinging, tearing, redness, blurred vision and blindness
Skin Contact: Causes skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying, cracking and possible tissue damage.
Ingestion: Can cause gastrointestinal irritation, burns, nausea, vomiting, diarrhea and death. Aspiration of material into lungs may cause chemical pneumonitis.
Inhalation: Excessive inhalation of vapors and mist can cause severe tissue damage, even death.

Precautionary Statements Keep out of the reach of children
Storage / Disposal Dispose of according to local, regional and/or national regulations.

Other Information

HMIS

HEALTH HAZARD	3 - Serious
FLAMMABILITY HAZARD	0 - Minimal
REACTIVITY HAZARD	1 - Slight
PERSONAL PROTECTION	D + u

SECTION 3: Composition / Information on Ingredients

HAZARDOUS INGREDIENT	CAS NUMBER	%
Sulfuric Acid	7664-93-9	< 1 - 10
Hydrofluoric Acid	7664-39-3	< 1
Phosphoric Acid	7664-38-2	< 1 - 10

SECTION 4: First Aid Measures

Description of first aid measures

Inhalation	Remove to fresh air. If breathing is difficult, administer oxygen. If breathing has stopped, give artificial respiration. Get immediate medical attention. Person should be examined by a physician and held under observation for 24 hours.
Skin	Wash with soap and water. Remove contaminated clothing and wash before re-use.
Eye	Remove contact lenses if present. Rinse with water for 15 minutes. Hold eyelids apart to ensure flushing. Get immediate medical attention.
Ingestion	Do not induce vomiting. If conscious, give two glasses of water. Follow with Milk of Magnesia. Get immediate medical attention. If spontaneous vomiting occurs, keep airway clear.

Most important systems and effects, both acute and delayed

Product is irritating to skin and mucous membranes. Product is a calcium seeker. Always wear protection (eye goggles, nitrile gloves, organic vapor respirator, rubber boots and rubber apron) when using product.

Indication of any immediate medical attention and special treatment needed

Note to Physician: Treat inhalation as chemical pneumonia. Monitor for hypocalcemia. 2.5% Calcium Gluconate in normal saline by nebulizer or by IPPB with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered.

SECTION 5: Fire Fighting Measures

Extinguishing media

Suitable Extinguishing Media C02, dry chemical, foam, water fog, water spray

Unsuitable Extinguishing Media None

Special hazards arising from the substance or mixture

Unusual Fire and Explosion Hazards None

Hazardous Combustion Products Combustion may produce Carbon Monoxide, CO₂ and potentially irritating fumes.

Advice for firefighters

Wear approved SCBA with full facepiece operated in positive pressure demand mode.
Hazardous Polymerization is not expected to occur
Avoid contact with strong oxidizing agents and strong acids

SECTION 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

Personal Precautions For large spills (100 gallons or more) wear appropriate protective equipment including rubber boots, gloves, goggles and apron.

Emergency Procedures Isolate spill or leak to prevent entering storm drains.

Environmental Precautions

Avoid run off to waterways and storm drains.

Methods and materials for containment and clean up

Containment / Clean up Measures

Stop leak if you can do it without risk.
Dike ahead of liquid spill to prevent entering storm drains.
Absorb and transfer to containers

SECTION 7: Handling and Storage

Precautions for safe handling

Handling Product is slippery. If product is spilled onto floor, clean area to prevent slipping.

Conditions for safe storage, including any incompatibilities

Storage Store in a cool, dry place. Keep away from oxidizers.

Incompatible Materials or Ignition Sources

Keep away from oxidizers and strong bases.

SECTION 8: Exposure Controls / Personal Protection

Exposure Controls

Engineering

Measures / Controls

Use in well ventilated area. If used in an enclosed area, provide fans or other mechanical means to provide adequate ventilation.

Personal Protective Equipment

NIOSH approved acid gas cartridge respirator, chemical splash goggles, nitrile gloves, rubber apron, and rubber boots

General Industrial Hygiene

Considerations

Clean protective gear after use. Rinse with water and allow to dry.

SECTION 9: Physical and Chemical Properties

Information on Physical and Chemical Properties

Physical Form	Liquid	Appearance	Thin, soapy liquid
Color	Clear	Odor	Acidic
Taste	Data Lacking	Particulate Type	N/A
Particulate Size	N/A	Aerosol Type	N/A

General Properties

Boiling Pt	212 F	Melting Point	Data Lacking
pH	0.5 - 1.5	SG / Density	1.03 - 1.05
Water Solubility %	100	VOC	0 grams / Liter

SECTION 10: Stability and Reactivity

Reactivity	No dangerous reaction know under conditions of normal use
Chemical stability	Stable under normal temperatures and pressures.
Possibility of hazardous reactions	Hazardous polymerization is not expected to occur
Conditions to Avoid	Avoid contact with strong alkaline solutions, oxidizers, powdered metals & organic materials.
Hazardous Decomposition	Combustion may emit toxic, corrosive fumes of Hydrogen Fluoride, Sulfur Dioxide & Fluorine Gas.

SECTION 11: Toxicological Information

Sulfuric Acid

CAS# 7664-93-9

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact.
Toxicity to Animals: Acute oral toxicity (LD50): 4280 mg/kg (Rat.)
Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (irritant), of ingestion, .
Hazardous in case of skin contact (corrosive, permeator), of eye contact (corrosive).

Hydrofluoric Acid

CAS# 7664-39-3

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.
Toxicity to Animals: Acute toxicity of the vapor (LC50): 342 1 hours [Mouse].
Chronic Effects on Humans: May cause damage to the following organs: lungs, mucous membranes, skin, eyes, bones, teeth.
Other Toxic Effects on Humans: Extremely hazardous in case of inhalation (lung corrosive). Very hazardous in case of skin contact (corrosive, irritant,permeator), of eye contact (corrosive), of ingestion,

NOTES TO PHYSICIAN: Treat inhalation as chemical pneumonia. Monitor for hypocalcemia. 2.5% CalciumGluconate in normal saline by nebulizer or by IPPB with 100% oxygen may decrease pulmonary damage. Bronchodilators may also be administered.

For burns of large skin areas, (> 25 square inches), for ingestion and for significant inhalation exposure, severe systemic effects may occur. Monitor and correct for hypocalcemia, cardiac arrhythmias, hypomagnesemia and hyperkalemia. In some cases renal dialysis may be indicated. For certain burns, especially of the digits, use of intra-arterial Calcium Gluconate may be indicated.

SECTION 12: Ecological Information

Sulfuric Acid, Phosphoric Acid and Hydrofluoric Acid are very toxic to aquatic life.

Do not allow product into streams, storm drains or other bodies of water.

SECTION 13: Disposal Considerations

Dispose of according to local, state and federal regulations.

SECTION 14: Transport Information

Shipping Name: Corrosive Liquids, Poisonous, n.o.s. (Hydroflouric acid and Sulfuric Acid) 8
UN Listing: UN 2922
Packing Group: III
Constituent: Hydrofluoric Acid, Sulphuric Acid

SECTION 15: Regulatory Information

SARA 302 Components

Sulfuric Acid, Phosphoric Acid and Hydrofluoric Acid are reportable under requirements of SARA Title III, Section 302.

SARA 313 Components

This material contains Sulfuric Acid, Phosphoric Acid, and Hydrofluoric Acid.

Reportable quantity is 1000 lbs of Sulfuric Acid, 1000 lbs for Phosphoric Acid and 100 lbs for Hydrofluoric Acid.

California Prop. 65

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

TSCA

Sulfuric Acid and Hydrofluoric Acid are listed on TSCA. Reportable quantity is 1000 pounds of Sulfuric Acid, 1000 lbs of Phosphoric Acid and 100 lbs for Hydrofluoric Acid.

SECTION 16: Other Information

Dated: June 4, 2015

WARNING: This information contained in this MSDS is based on the data available to us from sources we believe to be reliable. No warranty or guaranty expressed or implied is made regarding the accuracy of this data or the results obtained from the reliance on this data. The manufacturer assumes no responsibility for injury from the use of this product. Be safe: Read this safety information and forward it to all persons who may be exposed to this product.