

I. Product and Supplier Information

Product Name: Thoro Flush
 Product Purpose:
 Product Synonyms: None

MSDS Number: KWP TF
 Publication Date: Feb. 1, 2008
 Replaces: April 6, 2006

Chemical Family or Formula: Alkaline inorganic salt mixture

Supplier: Irontite by Kwik-Way Inc.
 9860 Baldwin Place
 El Monte, CA 91731

Phone: 626-443-0296 or 800-423-3384
 Web page: www.irontite.com

Product Information: 800-423-3384
 Transportation Emergency: 800-423-3384

Note: The purpose of this MSDS is to provide safe handling, shipping and disposal information for users of the product. It is not intended to, nor does it, provide complete or extensive toxicological data on the product or its components.

II. Composition and Information on Ingredients

CAS #	SARA 313		Material or Component	Exposure Limits (ppm)		
	On?	De minimis		RQ#	TWA*	STEL*
MX-5B	No	NA	Red dye-No CAS number assigned	None	Not established	NE
7601-54-9	No	NA	Trisodium phosphate	None	NE	C5 mg/m3; 15 min
497-19-6	No	NA	Sodium Carbonate	None	Not established	NE

No component is listed in "Threshold and Biological Exposure Indices for 2004" from ACGIH except as noted above. Components listed in Title III Sec. 313 (EPCRA) are indicated by "Yes" above.

*TWA= Time Weighted Average; STEL= Short Term Exposure Limit; WEEL= Workplace Employee Exposure Level
 NE= Not Established "De minimis" = Threshold reporting limit for SARA 313 for this material.

III. Hazards Identification

Emergency Overview:

Eye and skin irritation from dust or solutions of the product in water.

Routes of Entry:

Inhalation, eye contact, skin contact, ingestion

Chemical Interactions:

No significant interactions known.

Medical Conditions Aggravated:

None known.

Human Threshold Response Data

Odor Threshold: Not established

Irritation Threshold: Not established

Hazard Category Classifications and Ratings for dust if produced

Hazard Categories:	Health	Fire	Pressure	Reactivity	Reference 49 CFR 171.8, OSHA 29 CFR 1910.1200 and SARA 302/311/312/313.
Immediate	Yes	No	No	No	
Delayed	No	No	No	No	

HMIS Hazard Ratings: Health 1 Fire 0 Instability 0 Other B, t (Glasses, gloves, dust respirator)

NFPA 704 Hazard Ratings: Health 1 Flammability 0 Reactivity 0 Special NA

Hazard Ratings: Least: 0 Slight: 1 Moderate: 2 High: 3 Extreme: 4

* "Yes" in Delayed Fire hazard category indicates that this material poses a spontaneous combustion hazard.

Hazards Identification (continued)

Breathing

Inhalation may cause irritation to the moist mucous membranes of the nose, throat and upper respiratory system. Use exposure controls or personal protection methods described in Sec. 12 as appropriate.

Skin Contact:

May cause skin irritation.

Eye contact:

May cause severe irritation.

Swallowing:

Not a likely occurrence.

Conditions aggravated by exposure:

None known.

Prolonged (Chronic) Health Effects

None known.

IV. First Aid

Inhalation:

Remove individual to fresh air. If not breathing, give artificial respiration or oxygen as appropriate.

Skin Contact:

Wash skin with cool water and pH-neutral soap or a mild detergent. Seek medical treatment if irritation or inflammation develops or persists. Seek immediate medical treatment in the event of burns.

Eyes:

Immediately flush eye thoroughly with water. Continue flushing eye for at least 15 minutes, including under lids, to remove all particles. Call physician immediately

Ingestion:

Do not induce vomiting. If conscious, have the victim drink plenty of water and call a physician immediately

V. Fire Fighting Measures**Flammability Summary (OSHA):**

Flammable Properties: Material will not burn under any circumstances.

Flash Point: None

Autoignition Temperature: None

Upper Flammable/Explosive Limit, % in a None

Lower Flammable/Explosive Limit, % in a None

Fire/Explosion Hazards: None

Extinguishing Media:

Use equipment appropriate to the main cause of the fire.

Fire Fighting Instructions:

Use equipment appropriate to the main cause of the fire.

VI. Accidental Release Measures**General:**

Avoid creating and breathing dust.

Small Spill:

Avoid creating and breathing dust during cleanup. Sweep up for use or disposal as a non hazardous dry waste.

Large Spill:

Avoid creating and breathing dust during cleanup. Sweep up for use or disposal as a non hazardous dry waste.

VII. Handling and Storage

Handling:

Handle and store in a manner so that airborne dust does not exceed applicable exposure limits.

Use adequate ventilation and dust control. Use exposure control/ personal protection methods described in Section 10.

Storage

Store in a dry place. Keep containers closed when not in use.

VIII. Exposure Controls and Personal Protection

Ventilation:

Adjust ventilation to meet exposure limits.

Protective Equipment for Routine Use of Product Where Appropriate:

Respiratory Protection:

Use NIOSH/MSHA approved dust mask when airborne exposure may exceed exposure limits.

Skin:

Wear tough gloves to protect skin during extended handling.

Eyes:

Use chemical safety glasses with side shields, safety goggles and/or a full face shield where splashing is possible.

Protective Clothing Type:

Wear clothing as appropriate for handling and contact with product.

Exposure Limit Data : See Section II

IX. Physical Data

Physical State:	Powder	Vapor Density (Air = 1):	Not volatile
Color:	Red	Vapor Pressure 20°C:	None
Odor:	Nil	Evaporation Rate (Butyl acetate =1):	Not applicable
		Volatiles % by vol.:	Nil
Molecular Weight:	Not available	Boiling Point @ 20 mm Hg:	NA
pH (@ 25 Deg. C):	Not applicable	Freezing Point:	NA
Octanol/Water Coeff:	No data		
Solubility in Water:	Soluble		
Bulk Density:	Approx. 1.15		
Specific Gravity:	Not determined		

X. Stability and Reactivity**Stability and Reactivity Summary:**

Stable under normal conditions.

Reactive Properties:

Sensitivity to mechanical shock:	None
Hazardous Polymerization:	Cannot occur.
Conditions to Avoid:	None
Chemical Incompatibility:	None
Incompatible materials:	None
Hazardous decomposition Product:	None
Decomposition Temperature:	Not determined
Product May Be Unstable At Temperatures Above:	none

XI. Toxicological Information**Component Animal Toxicology**

Results for major ingredient: trisodium phosphate

Oral LD50 value mg/kg: No data

Dermal LD50 value mg/kg: >300 mg/kg (rbt)

Inhalation LC50 value: No data

Mutagenicity:

No data.

Carcinogenicity:

This chemical is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP, or EPA.

XII. Ecological Information**Ecological Toxicity Values:**

Environmental fate: No information found

Environmental Toxicity: No information found

XIII. Disposal Considerations

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THIS MATERIAL
THE USER OF THIS MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES
AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS

Waste Disposal Summary:

Product as supplied does not qualify as a hazardous waste.

Potential US EPA Waste Codes:

Not applicable.

Disposal Methods:

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

Components subject to land ban restrictions:

No components subject to land ban restrictions.

XIV. Transportation Information	
Proper Shipping Name, Hazard Class, UN/NA Number Packing Group, Emergency Response Guide Number	Not regulated.
Labels required per 49 CFR 172.101:	None
Size for "Limited quantity" per 49 CFR 173.150-.155:	Not applicable
Reportable Quantity ("RQ") per 49 CFR 172.101:	None
Passenger and Cargo Air & Rail (172.101):	Not regulated
Eff. Jan 1, 2001 Cargo only:	Not regulated
Vessel Stowage:	Not regulated

XV. Regulatory Information for Product as Supplied

UNITED STATES:

Toxic Substances Control Act (TSCA):

The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

Pesticide acceptance indication: US EPA Registration Number:

Not applicable

California Prop. 65: Not listed

Hazard Categories Sections 311/312 (40 CFR 370.2):

Health:

Acute No Fire: No Pressure: No
 Chronic No Reactivity: No

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

None

Reportable Quantity (40 CFR 302.4):

None

State Right-to-Know Regulations Status of Ingredients

Pennsylvania: None

New Jersey: None

Massachusetts: None

XVI. Additional Information

MSDS REVISION STATUS:

This MSDS is intended to provide adequate information for the safe industrial use of the product. It is not intended as a comprehensive reference for its component pure materials.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. WE BELIEVE THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF ITS PUBLICATION DATE, BUT MAKE NO WARRANTY THAT IT IS. IF THIS MSDS IS MORE THAN THREE YEARS OLD YOU SHOULD CONTACT THE SUPPLIER TO MAKE CERTAIN THAT THE INFORMATION IS CURRENT.

MSDS data source: Alfa-Aesar 9/26/2003