

I. Product and Supplier Information

Product Name: Ceramic Motor Seal
 Product Purpose: Forms rigid seal in crevices and joints.
 Chemical Family or Formula: Alkaline inorganic salt solution
 Supplier: Irontite by Kwik-Way Inc.
 9860 Baldwin Place
 El Monte, CA 91731

MSDS Number: KWP CMS
 Publication Date: Feb. 1, 2008
 Replaces: April 6, 2006
 Phone: 626-443-0296 or 800-423-3384
 Web page: www.ironite.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*
1344-09-8	No	NA	Silicic acid, sodium salt	None	Not established	
1318-93-0	No	NA	Sodium montmorillonite	None	Not established	
14807-96-6	No	NA	Magnesium silicate hydrate	None	Not established	
9002-88-4	No	NA	Polyolefin	None	Not established	
1317-33-5	No	NA	Molysulfide	None	Not established	
1333-86-4	No	NA	Carbon black	None	Not established	
7732-18-5	No	NA	Water	None	Not established	

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 contact with uncured product.

Routes of Entry: 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 NA

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: Not a consideration.

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:

Not a consideration.

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 air None

Lower Flammable/Explosive Limit, % in air 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:**

Minimal to no hazard from spill.

Small Spill:

Scrape up for use, reclaim or disposal.

Large Spill:

Scrape up for use, reclaim or disposal.

VII. Handling and Storage

Handling:

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

VIII. Exposure Controls and Personal Protection

Ventilation:

No ventilation considerations required for this product.

Protective Equipment for Routine Use of Product Where Appropriate:

Respiratory Protection:

Not a consideration as there are no hazardous fumes associated with this product.

Skin:

Wear appropriate gloves to protect skin during extended handling.

Eyes:

Do not rub eyes with contaminated hands or toweling.

Protective Clothing Type:

Generally not required. Wear clothing as appropriate for handling and contact with product.

Exposure Limit Data : See Section II

IX. Physical Data

Physical State:	Liquid	Vapor Density (Air = 1):	Not volatile
Color:	Grey	Vapor Pressure 20°C:	None

Odor:	Nil	Evaporation Rate (Butyl acetate =1):	Not applicable
Molecular Weight:	Not available	Volatiles % by wt.:	55 approx.
pH (@ 25 Deg. C):	Not applicable	Boiling Point @ 20 mm Hg:	NA
Octanol/Water Coeff:	No data	Freezing Point:	NA
Solubility in Water:	Approx. 95%		
Bulk Density:	Not applicable		
Specific Gravity:	Approx. 1.4		

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:	Water will disperse material and make it unsuitable for use, but offer no hazard.
Hazardous decomposition Products:	None
Decomposition Temperature:	Not determined
Product May Be Unstable At Temperatures Above:	none

XI. Toxicological Information

Component Animal Toxicology

Results for major ingredient: Contains no toxic ingredients.

Oral LD50 value mg/kg: No Data

Dermal LD50 value mg/kg: No Data

Inhalation LC50 value: No Data

Mutagenicity:

No data.

Carcinogenicity:

The chemicals in this product are 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 CFR172.101:	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.