

MATERIAL SAFETY DATA SHEET - 16 Sections

SECTION 1 -- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Identifier WATER GLASS ITEM 146		
Product Use GLUE FOR SEALING CARTONS & SHIPPING LABELS FLOOR SEALER, EGG PRESERVATIVE		
Manufacturer's Name RUTLAND FIRE CLAY COMPANY		EMERGENCY CONTACT CHEMTREC
Street Address 7 CRABTREE ROAD		EMERGENCY DOMESTIC PHONE NUMBER 800-424-9300
City JACKSONVILLE	State IL	EMERGENCY INTERNATIONAL CONTACT NUMBER 703-527-3887
Zip code 62650		
Date MSDS Prepared November 4, 2010	MSDS Prepared By GENE ADDISON	Phone Number 217-245-7810

SECTION 2 -- COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Ingredients (<i>specific</i>)	%	CAS Number	LD ₅₀ of Ingredient (<i>specify species and route</i>)	LC ₅₀ of Ingredient (<i>specify species</i>)
SODIUM SILICATE		7732-18-5	2000-3000 MG/KG (RAT ACUTE ORAL)	494 MG/L (WATER FLEA)

SECTION 3 -- HAZARD IDENTIFICATION

Route of Entry	<input checked="" type="checkbox"/> SKIN CONTACT	<input type="checkbox"/> SKIN ABSORPTION	<input checked="" type="checkbox"/> EYE CONTACT	<input checked="" type="checkbox"/> INHALATION	<input checked="" type="checkbox"/> INGESTION
[Emergency Overview]	CLEAR LIQUID IRRITATING TO EYES, SKIN, RESPIRATORY TRACT, AND GASTROINTESTINAL TRACT.				
[Potential Health Effects]	ROUTES OF ENTRY INGESTION & INHALATION TARGET ORGANS EYES, SKIN, RESPIRATORY TRACT, GASTROINTESTINAL TRACT IRRITANCY POTENTIALLY BY ALL ROUTES OF EXPOSURE SENSITIZING CAPABILITY NONE KNOWN REPRODUCTIVE EFFECTS NONE KNOWN CANCER INFORMATION NONE KNOWN				

SECTION 4 -- FIRST AID MEASURES

Skin Contact	WASH THOROUGHLY WITH SOAP & Water. WASH CLOTHING BEFORE REUSE. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.
Eye Contact	IMMEDIATELY FLUSH EYES WITH A DIRECTED STREAM OF WATER FOR AT LEAST 15 MINUTES, FORCIBLY HOLDING EYELIDS APART TO ENSURE COMPLETE IRRIGATION OF ALL EYE AND LID TISSUE. IF IRRITATION PERSISTS, GET MEDICAL ATTENTION.
Inhalation	REMOVE TO FRESH AIR. IF BREATHING IS DIFFICULT, HAVE TRAINED PERSON ADMINISTER OXYGEN. IF RESPIRATION STOPS, HAVE A TRAINED PERSON ADMINISTER ARTIFICIAL RESPIRATION. GET MEDICAL ATTENTION IMMEDIATELY.
Ingestion	NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE LARGE QUANTITIES OF WATER. IF AVAILABLE, GIVE LARGE AMOUNT OF MILK. IF VOMITING OCCURS, SPONTANEOUSLY, KEEP AIRWAY CLEAR & GIVE MORE WATER. GET MEDICAL ATTENTION IMMEDIATELY.

Product Identifier

SECTION 5 -- FIRE FIGHTING MEASURES

Flammable NONFLAMMABLE	If yes, under what conditions	
Means of Extinction N/A		
Flashpoint (°C) and Method N/A		
Auto ignition Temperature (°C) N/A		
Hazardous Combustion Products N/A		

SECTION 6 -- ACCIDENTAL RELEASE MEASURES

Environmental Precautions	CONTAIN SPILL WITH DIKE OR MOATS TO PREVENT ENTRY INTO SEWERS OR WATERWAYS.
Cleanup Procedures	DRY MATERIAL CAN BE SHOVELED UP. LIQUID MATERIAL CAN BE REMOVED WITH A VACUUM TRUCK. NEUTRALIZE REMAINING TRACES WITH ANY DILUTE INORGANIC ACID. FLUSH SPILL AREA WITH Water FOLLOWED BY LIBERAL COVERING OF SODIUM CARBONATE. ALL CLEAN-UP MATERIAL SHOULD BE REMOVED FOR PROPER TREATMENT OR DISPOSAL. SPILLS ON OTHER THAN PAVEMENT, MAY BE HANDLED BY REMOVING THE AFFECTED SOIL & PLACING IN APPROVED CONTAINERS.
Personal Protection	EVACUATE UNNECESSARY PERSONNEL. FOLLOW PROTECTIVE MEASURES FROM SECTION 8.

SECTION 7 -- HANDLING AND STORAGE

Handling	WEAR PERSONAL PROTECTIVE EQUIPMENT AS DESCRIBED IN EXPOSURE CONTROLS/PERSONAL PROTECTION, SECTION 8 OF MSDS DO NOT GET ON SKIN OR CLOTHING AVOID BREATHING AIRBORNE PARTICULATES; WEAR RESPIRATORY PROTECTION FOR LARGE SPILLS WHEN EXPOSURE IS POSSIBLE.
Special Mixing and Handling Instructions	DO NOT ALLOW CONTACT WITH MATERIALS AS NOTED IN SECTION 10. CONTACT WITH ACIDS WILL CAUSE GELLING AND THE EVOLUTION OF HEAT.
Storage Requirements	KEEP CONTAINER TIGHTLY CLOSED AND PROPERLY LABELED. DO NOT STORE IN ALUMINUM CONTAINER OR USE ALUMINUM FITTINGS OR TRANSFER LINES, AS FLAMMABLE HYDROGEN GAS CAN BE GENERATED.

SECTION 8 -- EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Limits	<input checked="" type="checkbox"/> ACGIH TLV 2 MG/M3	<input checked="" type="checkbox"/> OSHA PEL 2 MG/M3	<input type="checkbox"/> OTHER (Specify)
Specific Engineering Controls (Such as ventilation, enclosed process)			
ADEQUATE GENERAL VENTILATION			
Personal Protective Equipment			
<input checked="" type="checkbox"/> GLOVES	<input type="checkbox"/> RESPIRATOR	<input checked="" type="checkbox"/> EYEWEAR	<input checked="" type="checkbox"/> FOOTWEAR <input checked="" type="checkbox"/> CLOTHING <input type="checkbox"/> OTHER
If checked, please specify type			
GLOVES	WEAR DISPOSABLE OR WASHABLE LATEX, VINYL, OR RUBBER GLOVES TO PREVENT CONTACT WITH SKIN		
EYEWEAR	WEAR GLASSES OR SAFETY TO AVOID CONTACT WITH EYES		
CLOTHING	WEAR APPROPRIATELY TO AVOID CONTACT WITH CHEMICAL		
FOOTWEAR	WEAR APPROPRIATELY TO AVOID CONTACT WITH CHEMICAL		

Product Identifier

SECTION 9 -- PHYSICAL AND CHEMICAL PROPERTIES

Physical State LIQUID	Odor and appearance COLORLESS, TURBID SLIGHTLY SOAPY ODOR	Odor Threshold (ppm) N/A
Specific Gravity 1.4	Vapor Density (Air = 1) N/A	Vapor Pressure (mmHg) N/A
Evaporation Rate N/A	Boiling Point (°F) 215°	Freezing Point (°F) 30°
pH 11.2	Coefficient of Water/Oil Distribution N/A	[Solubility in Water] 100%

SECTION 10 -- STABILITY AND RELIABILITY

Chemical Stability <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If no, under which conditions?
Incompatibility with other substances <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	If yes, which ones? ACIDS & METALS
Reactivity, and under what conditions? CONTACT WITH ACIDS WILL CAUSE GELLING AND THE EVOLUTION OF HEAT. PROLONGED CONTACT WITH ALUMINUM MAY PRODUCE FLAMMABLE HYDROGEN GAS	
Hazardous Decomposition Products NONE	

SECTION 11 -- TOXICOLOGICAL INFORMATION

Effects of Acute Exposure REPORTED IN SECTION 3
Effects of Chronic Exposure NONE REPORTED

SECTION 12 -- ECOLOGICAL INFORMATION

Aquatic Toxicity		
FISH		
LC50 (96 HR.)	MOSQUITOFISH	1800 - 2320 MG/L
INVERTEBRATES		
EC50 (100 HR.)	WATER FLEA	247 MG/L
LC50 (48 HR.)	WATER FLEA	494 MG/L
LC50 (96 HR.)	SCUD	160 MG/L
LC50 (96 HR.)	POND SNAIL	631 MG/L
LC50 (28 DAY.)	POLYCHEATE WORM	643 - 765 µg/L
PLANT		
EC (7 DAY)	PHYTOPLANKTON	1500 µg/L
TERRESTRIAL ECOTOX DATA:		
WILDLIFE:		
LD (ORAL)	MOUSE	1.1 gm/Kg
ENVIRONMENTAL FATE DATA		
BIOTIC		
BIODEGRADATION	INORGANIC, NOT SUBJECT TO BIODEGRADATION	
ABIOTIC		
WATER SOLUBILITY	100%	
THERE IS LIMITED INFORMATION ON THE ENVIRONMENTAL FATE OF THIS MATERIAL. LABORATORY TESTS INDICATE THAT IT EXHIBITS LOW TOXICITY TO AQUATIC ORGANISMS & MODERATE TOXICITY TO TERRESTRIAL ANIMALS. THIS COMPOUND IS STRONGLY ALKALINE & MAY RAISE THE pH IF DISSOLVED IN SURFACE WATER. DUE CAUTION SHOULD BE EXERCISED TO AVOID THE RELEASE OF THIS MATERIAL INTO THE ENVIRONMENT.		

Product Identifier

SECTION 13 -- DISPOSAL CONSIDERATIONS

Waste Disposal DISPOSE OF IN ACCORD WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS

SECTION 14 -- TRANSPORT INFORMATION

Special Shipping Information	
	PIN
TDG NOT REGULATED	[DOT] NOT REGULATED
[IMO] NOT REGULATED	[ICAO] NOT REGULATED

SECTION 15 -- REGULATORY INFORMATION

SARA SECTION 302 RQ & TPQ NONE KNOWN	[OSHA] SODIUM SILICATE
SARA SECTION 313 NONE KNOWN	[TSCA] ALL INGREDIENTS ON TSCA LIST SIGNIFICANT NEW USE RULE
CLEAN AIR ACT CONTAINS NO HAZARDOUS AIR POLLUTANTS CLEAN WATER ACT NOT LISTED AS PRIORITY OR TOXIC POLLUTANT	[TSCA] HEALTH & SAFETY REPORTING LIST NOT ON LIST CHEMICAL TEST RULES NOT UNDER RULES SECTION 12b NOT LISTED
STATE RIGHT TO KNOW LISTS NOT ON ANY STATE LIST EUROPEAN /INTERNATIONAL REGULATIONS HAZARDOUS LABELING IN ACCORDANCE WITH EC DIRECTIVES IRRITANT HAZARD SYMBOLS XI RISK PHRASES R 36/38 SAFETY PHRASES S 24 S 26 S 28	CERCLA NOT REPORTABLE

SECTION 16 -- OTHER INFORMATION

THE ABOVE INFORMATION IS BELIEVED TO BE ACCURATE AND REPRESENTS THE BEST INFORMATION CURRENTLY AVAILABLE TO US. HOWEVER, WE MAKE NO WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, WITH RESPECT TO SUCH INFORMATION, AND WE ASSUME NO LIABILITY RESULTING FROM ITS USE. USERS SHOULD MAKE THEIR OWN INVESTIGATIONS, TO DETERMINE THE SUITABILITY OF THE INFORMATION FOR THEIR PARTICULAR PURPOSES. IN NO EVENT SHALL RUTLAND FIRE CLAY COMPANY BE LIABLE FOR ANY CLAIMS, LOSSES, OR DAMAGES OF ANY THIRD PARTY OR FOR LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF RUTLAND HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.	
HMIS Rating	NFPA Rating
Health : 2	Health : 2
Flammability : 0	Flammability : 0
Reactivity : 0	Reactivity : 0