



MATERIAL SAFETY DATA SHEET

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REVISION OF: 03/02/10

MSDS #2370

SODIUM HYDROXIDE 50%

1.0 CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

SUPPLIER: BRENNTAG SOUTHEAST, INCORPORATED
2000 E. PETTIGREW STREET
DURHAM, NC 27703

EMERGENCY SPILL INFORMATION:
(800) 424-9300 CHEMTREC (USA)
OTHER PRODUCT SAFETY INFORMATION
(919) 596-0681

PRODUCT NAME: SODIUM HYDROXIDE 50% ALL GRADES

COMMON NAMES/SYNONYMS: CAUSTIC SODA 50%

FORMULA: MIXTURE

DATE ISSUED: 10/17/07

HAZARD RATING (NFPA 704)

HEALTH: 3
FIRE: 0
REACTIVITY: 2
SPECIAL: NONE

HAZARD RATING SCALE:
0-MINIMAL 3-SERIOUS
1-SLIGHT 4-SEVERE
2-MODERATE

2.0 COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT	EXPOSURE LIMITS, PPM			HAZARD	CAS NO.
	OSHA PEL	ACGIH TLV	OTHER LIMIT		
SODIUM HYDROXIDE 50%	2	2		CORROSIVE	1310-73-2

3.0 HAZARDS IDENTIFICATION

NOTE TO PHYSICIAN:

PRIMARY ROUTES OF EXPOSURE: SEVERE BURNS TO EYES AND SKIN IMMEDIATE TREATMENT IS NECESSARY, INGESTION DAMAGES MUCOUS MEMBRANES AND TISSUES OF GASTRO-INTESTINAL TRACT.

SIGNS AND SYMPTOMS OF EXPOSURE:

INHALATION: EXCESSIVE INHALATION OF VAPORS CAN CAUSE NASAL AND RESPIRATORY DAMAGE, DIZZINESS, WEAKNESS, FATIGUE, NAUSEA, VOMITING, DIARRHEA, AND POSSIBLE UNCONSCIOUSNESS.

EYE CONTACT: LIQUID AND MISTS ARE CORROSIVE TO THE EYES. BRIEF CONTACT OF THE LIQUID CAUSES SEVERE EYE BURNS AND POSSIBLE BLINDNESS.

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From: BRENNTAG SOUTHEAST INC. To: RONILE INC Wednesday, March 17, 2010

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SKIN CONTACT: CONTACT WITH VAPORS, MISTS, AND LIQUID ARE CORROSIVE TO THE SKIN, AND CAUSE PERMANENT SKIN AND DAMAGE.

SWALLOWED: SWALLOWING LIQUID MAY CAUSE PERMANENT GASTROINTESTINAL DAMAGE.
CHRONIC EFFECTS OF EXPOSURE:

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: PERSONS WITH PRE-EXISTING SKIN OR EYE DISORDERS OR RESPIRATORY DISEASE MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

4.0 FIRST AID MEASURES

IF INHALED: REMOVE TO FRESH AIR. GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING. GIVE OXYGEN IF NECESSARY. GET IMMEDIATE MEDICAL ATTENTION.

IN CASE OF EYE CONTACT: IMMEDIATELY FLUSH EYES WITH LOTS OF RUNNING WATER FOR 30 MINUTES, LIFTING THE UPPER AND LOWER LIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION.

IN CASE OF SKIN CONTACT: IMMEDIATELY FLUSH SKIN WITH LOTS OF RUNNING WATER FOR 15 MINUTES. REMOVE CONTAMINATED CLOTHING AND SHOES; WASH BEFORE RE-USE. GET MEDICAL ATTENTION IF CONDITION PERSISTS.

IF SWALLOWED: DO NOT INDUCE VOMITING. IF CONSCIOUS GIVE 2 GLASSES OF WATER OR MILK. GET IMMEDIATE MEDICAL ATTENTION. DO NOT GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS OR CONVULSING PERSON.

5.0 FIRE FIGHTING MEASURES

FLASH POINT, DEG F: N/A
METHOD USED: TCC

FLAMMABLE LIMITS IN AIR, % (VOL)
LOWER: N/A UPPER: N/A

EXTINGUISHING MEDIA: DOES NOT BURN. APPLYING WATER TO THIS PRODUCT MAY CAUSE SPLATTERING OF THIS CORROSIVE LIQUID DRY CHEMICAL, FOAM OR CO₂. WATER SPRAY ON LARGE FIRES MAY BE INEFFECTIVE BUT SHOULD BE USED TO COOL EXPOSED STRUCTURES OR VESSELS. DO NOT USE A DIRECT WATER STREAM.

SPECIAL FIRE FIGHTING PROCEDURES: FIRE FIGHTERS SHOULD WEAR SELF-CONTAINED POSITIVE PRESSURE BREATHING APPARATUS. USE WATER SPRAY TO COOL NEARBY CONTAINERS AND STRUCTURES EXPOSED TO FIRE.

UNUSUAL FIRE AND EXPLOSION HAZARDS: EXTINGUISH ALL NEARBY SOURCES OF IGNITION, VAPORS ARE HEAVIER THAN AIR AND MAY BE MOVED ALONG GROUND BY AIR CURRENTS TO DISTANT IGNITION SOURCES.

6.0 ACCIDENTAL RELEASE MEASURES

ACTION TO TAKE FOR SPILLS OR LEAKS: ELIMINATE IGNITION SOURCES. WEAR CHEMICAL RESISTANT SLICKER SUIT AND COMPLETE PROTECTIVE EQUIPMENT INCLUDING RESISTANT GLOVES, RESISTANT BOOTS, CHEMICAL GOGGLES, AND FACE SHIELD. FOR SMALL SPILLS OR DRIPS, MOP OR WIPE UP AND DISPOSE OF IN DOT-APPROVED WASTE CONTAINERS. FOR LARGE SPILLS, CONTAIN BY DIKING WITH SOIL OR OTHER ABSORBENT MATERIAL AND COLLECT MATERIAL FOR PROPER DISPOSAL. ABSORBENT MATERIALS MUST ALSO BE DISPOSED OF PROPERLY. KEEP MATERIAL OUT OF SEWERS, STORM DRAINS, SURFACE WATERS, AND SOIL. IF SPILL OCCURS INDOORS, TURN OFF AIR CONDITIONING AND/OR HEATING SYSTEM TO PREVENT VAPORS FROM CONTAMINATING OTHER INDOOR AREAS.

COMPLY WITH ALL APPLICABLE GOVERNMENTAL REGULATIONS ON SPILL REPORTING AND HANDLING AND DISPOSAL OF WASTE.

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7.0 HANDLING & STORAGE

HANDLING AND STORAGE PRECAUTIONS: KEEP AWAY FROM HEAT, SPARKS, AND FLAMES. STORE IN A COOL, DRY PLACE. DO NOT EXPOSE TO TEMPERATURES ABOVE 120° FAHRENHEIT. KEEP CONTAINER TIGHTLY CLOSED WHEN NOT IN USE. DO NOT USE PRESSURE TO EMPTY CONTAINER. WASH SKIN THOROUGHLY AFTER HANDLING. DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING.

REPAIR AND MAINTENANCE PRECAUTIONS: DO NOT CUT, GRIND, WELD, OR DRILL ON OR NEAR CONTAINERS.

OTHER PRECAUTIONS: CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, WILL RETAIN PRODUCT RESIDUE AND VAPORS. ALWAYS OBEY HAZARD WARNINGS AND HANDLE EMPTY CONTAINERS AS IF THEY WERE FULL. CONTACT WITH ALUMINUM PARTS IN A PRESSURIZABLE FLUID SYSTEM MAY CAUSE VIOLENT REACTIONS. CONSULT EQUIPMENT SUPPLIER FOR FURTHER INFORMATION.

8.0 EXPOSURE CONTROLS/PERSONAL PROTECTION

VENTILATION: LOCAL MECHANICAL EXHAUST VENTILATION CAPABLE OF MAINTAINING EMISSIONS AT THE POINT OF USE BELOW THE LOWEST TLV.

RESPIRATORY PROTECTION: NIOSH-APPROVED CANISTER RESPIRATOR IN THE ABSENCE OF ADEQUATE ENVIRONMENTAL CONTROLS AT THE POINT OF USE. USE SELF-CONTAINED BREATHING APPARATUS IN CONFINED OR ENCLOSED SPACES.

EYE PROTECTION: CHEMICAL GOGGLES WITH FULL FACE SHIELD. CONTACT LENSES SHOULD NOT BE WORN.

PROTECTIVE CLOTHING: LONG-SLEEVED SHIRT, TROUSERS, SAFETY SHOES. PRODUCT RESISTANT GLOVES, APRON, AND BOOTS MADE OF NEOPRENE OR VINYL.

OTHER PROTECTIVE MEASURES: AN EYEWASH AND SAFETY SHOWER SHOULD BE NEARBY, UNOBSTRUCTED AND READY FOR USE. PROTECTIVE EQUIPMENT SHOULD BE SELECTED, USED, AND MAINTAINED ACCORDING TO APPLICABLE STANDARDS.

9.0 CHEMICAL AND PHYSICAL PROPERTIES

BOILING POINT, DEG F: 284
MELTING POINT, DEG F: LESS THAN 0
SPECIFIC GRAVITY (WATER=1): 1.53
APPEARANCE AND ODOR: COLORLESS
LIQUID; SWEET, PUNGENT ODOR

VAPOR PRESSURE, MM HG/20 DEG C: 1.5
VAPOR DENSITY (AIR=1): N/A
WATER SOLUBILITY, %: COMPLETE
EVAPORATION RATE (BUTYL ACETATE=1): N/A

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10. STABILITY AND REACTIVITY

STABILITY: STABLE
POLYMERIZATION: WILL NOT OCCUR
CONDITIONS TO AVOID: HEAT, SPARKS, AND OPEN FLAMES.
MATERIALS TO AVOID: OXIDIZING OR REDUCING MATERIALS, MINERAL ACIDS, REACTIVE METALS (I.E., ALUMINUM, TIN, ZINC, AND THEIR ALLOYS) HYDROCARBONS
HAZARDOUS DECOMPOSITION PRODUCTS: MAY LIBERATE CARBON MONOXIDE, CARBON DIOXIDE, HYDROGEN.

11. TOXICOLOGICAL INFORMATION

CAUSTIC SODA: NO INFORMATION

12.0 ECOLOGICAL INFORMATION

ECOLOGICAL TESTING HAS NOT BEEN CONDUCTED ON THIS PRODUCT BY BRENNTAG SOUTHEAST

13.0 DISPOSAL INFORMATION

DISPOSAL METHODS: DISPOSE OF CONTAMINATED PRODUCT AND MATERIALS USED IN CLEANING UP SPILLS OR LEAKS IN A MANNER APPROVED FOR THIS MATERIAL. CONSULT APPROPRIATE FEDERAL, STATE, AND LOCAL REGULATORY AGENCIES TO ASCERTAIN PROPER DISPOSAL PROCEDURES.

NOTE: EMPTY CONTAINERS CAN HAVE RESIDUES, GASES, AND MISTS AND ARE SUBJECT TO PROPER WASTE DISPOSAL AS ABOVE.

14.0 TRANSPORTATION INFORMATION

SODIUM HYDROXIDE SOLUTION
8, UN 1824, PG II

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15.0 REGULATORY INFORMATION

SECTION 313 SUPPLIER NOTIFICATION

THIS PRODUCT CONTAINS THE FOLLOWING TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT OF 1986 AND OF 40 CFR 372:

CAS #.	CHEMICAL NAME	PERCENT BY WEIGHT
	NONE	

16.0 OTHER INFORMATION

CONTACT DIRECTOR OF REGULATORY AFFAIRS, BRENNTAG SOUTHEAST DURING BUSINESS HOURS, EASTERN TIME (919) 596-0681.

This Material Safety Data Sheet conforms to the requirements of ANSI Z400.1.

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