










## Comparison of Regulatory Requirements for FloMag® H Magnesium Hydroxide Slurry vs. Caustic Soda

	Magnesium Hydroxide	Sodium Hydroxide
<b>Common Name</b>	Magnesium Hydroxide, Milk of Magnesia	Sodium Hydroxide, Liquid Caustic Soda 50%
<b>Chemical Formula</b>	Mg(OH) <sub>2</sub>	NaOH
<b>GHS Signal Word</b>	None Required	
<b>GHS Pictogram</b>	None Required	  Corrosive Acute Health Hazard H314: Causes severe skin burns and eye damage. H335: May cause respiratory irritation. P307+315: If exposed, get immediate medical attention. P301+P330+P331: IF SWALLOWED: Rinse mouth. Do not induce vomiting. P280: Wear protective gloves/protective clothing/eye protection/face protection. P264: Wash thoroughly after handling. P273: Avoid release into the environment. Onset of symptoms may be delayed following exposure.
<b>DOT List DOT Placard</b>	Not Regulated None Required	DOT 1824-154 (solution) CORROSIVE CLASS 8 
<b>NFPA 704</b>	0-0-0 	3-0-1 CORROSIVE 
<b>CDC - NIOSH</b>	Not Listed	RTECS Number: WB4900000
<b>TSCA (40 CFR 710)</b>	ID 8137 CAS 1309-42-8	ID 8150 CAS 1310-73-2
<b>USA – RCRA</b>	Not Listed	D002 (Corrosive Waste) Waste may be hazardous waste.
<b>USA - OSHA</b>	Not Listed	OSHA Serious Violation for not wearing eye and face protection Standard 29 CFR 19100.133 (a) (1) - Substance 2260
<b>USA - CERCLA Reportable Quantity</b>	Not Listed	1000# as NaOH; 2000# = 1320 gallons @50% solids
<b>SARA Title III 311/312</b>	Not Listed	Acute Health Hazard
<b>Canadian: WHMIS</b>	Domestic Substance List: Listed	 Class E Corrosive Material Ingredient Disclosure List: Listed Domestic Substance List: Listed Corrosive 1B, STOT-SE 3

	Magnesium Hydroxide	Sodium Hydroxide
<b>Chemical Formula</b>	Mg(OH) <sub>2</sub>	NaOH
<b>European Union (REACH) Hazard Class / Precautions</b>	Not Classified	Corrosive 1B, Specific Organ Toxicity (STOT) - SE 3 R35: Causes severe burns C: Corrosive S18: Handle and open containers with care. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S37/39: Wear suitable gloves and eye/face protection. S62: If swallowed, do not induce vomiting. S64: If swallowed, rinse mouth with water if victim is conscious.
<b>Stability &amp; Reactivity</b>	Does not react violently with water. Stable.	Direct contact with water may cause a violent exothermic reaction. This material reacts violently with acids, organic halogen compounds and metals (zinc, tin, aluminum etc.) giving off highly flammable hydrogen gas.

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