Safety Data Sheet
M M R 25

SECTION 1- PRODUCT IDENTIFICATION

PRODUCT NAME	M M R 25
SYNONYMS	Product is a mixture: No synonyms are available
PRODUCT USE	Highly Alkaline Chlorinated Material
SUPPLIER	WESMAR CO. INC.
SUPPLIER'S ADDRESS	5720 204TH ST SW, LYNNWOOD, WA 98036 (206) 783-5344
EMERGENCY RESPONSE PHONE	PERS: 1-800-633-8253

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SECTION 2 – HAZARD IDENTIFICATION

CLASSIFICATION OF THE SUBSTANCE OR MIXTURE

GHS – US CLASSIFICATION	:	H290	Metal corrosion Category 1
	:	H314	Skin Corrosion Category 1A
	:	H318	Serious Eye Damage Category 1
	:	H335	STOT SE 3
	:	H400	Aquatic Acute Category 1
	:	H411	Aquatic Chronic Category 2

LABEL ELEMENTS : **GHS – US LABELING** The product is classified and labeled according to the Globally Harmonized System (GHS).

HAZARD PICTOGRAMS :

SIGNAL WORD	:	**DANGER**	
HAZARDS STATEMENTS (GHS-US)	:	H290	May be corrosive to metals.
	:	H302	Harmful if swallowed
	:	H314	Causes severe skin burns and eye damage.
	:	H335	May cause respiratory irritation.
	:	H400	Very toxic to aquatic life.
	:	H411	Toxic to aquatic life with long lasting effects.
PRECAUTIONARY HAZARDS (GHS-US)	:	P234	Keep only in original container
	:	P260	Do not breathe vapors/mist/spray.
	:	P261	Avoid breathing dust/fume/gas/mist/vapors/spray.
	:	P264	Wash skin and contaminated clothing thoroughly after handling.
	:	P273	Avoid release into the environment.
	:	P280	Wear suitable protective gloves/protective clothing/eye protection/face protection.
	:	P301+P310	IF SWALLOWED: Call a POISON CENTER/doctor/physician if you feel unwell.
	:	P303+P361 +P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
	:	P304+P340	IF INHALED: Remove victim to fresh air and keep comfortable for breathing.
	:	P305+P351 +P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	:	P312	Call a POISON CENTER/doctor/physician if you feel unwell.
	:	P321	Specific treatment (See Section 4.)
	:	P363	Wash contaminated clothing before reuse.
	:	P390	Absorb spillage to prevent material damage.

	:	P391	Collect spillage.
	:	P403+P233	Store in a well ventilated place. Keep container tightly closed.
	:	P405	Store locked up.
	:	P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

OTHER HAZARDS : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.
CLASSIFICATION SYSTEM: : NFPA/HMIS Definitions: 0-Least, 1-Slight, 2-Moderate, 3-High, 4-Extreme.
NFPA ratings (scale 0-4): : Health = 3, Fire = 0, Reactivity = 1
HMIS ratings (scale 0-5): : Health = 3, Fire = 0, Reactivity = 1
OTHER HAZARDS : Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions.

SECTION 3 – COMPOSITON/INFORMATION ON INGREDIENTS

CHEMICAL CHARACTERIZATION : Mixtures
DESCRIPTION : Mixture of the substances listed below with nonhazardous additions.

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Sodium Hydroxide	1-5	1310-73-2	215-185-5	Metal Corr. Cat. 1, Skin Corr. Cat. 1A Eye Dam. Cat. 1, Aquatic Acute Cat. 3
Sodium Hypochlorite	1-5	7681-52-9	321-668-3	Metal Corr. Cat 1, Skin Corr. Cat 1B Eye Dam Cat. 1, STOT SE 3 Aquatic Acute Cat. 1, Aquatic Chronic Cat 1.
Sodium dodecyl diphenyl oxide disulfonate	1-5	119345-04-9	Not Available	Eye Dam Cat 1

Corr. = Corrosion, Cat. = Category, Irrit. = Irritation, Dam. = Damage, STOT-SE = Systemic Target Organ Toxicity-Single Exposure.

SECTION 4 – FIRST AID MEASURES

EYE CONTACT : Immediately flush eyes with water for at least 15 minutes. Hold eyelids open to ensure adequate flushing. Remove contact lenses, if present and easy to do so. Continue rinsing. Immediate call a POISON CENTER or doctor/physician.

SKIN CONTACT : Remove contaminated clothing and shoes. Wash affected skin area with water for at least 15 minutes. Delayed skin damage is possible if product is not completely washed off. Get immediate medical attention. Wash contaminated clothing before reuse.

SWALLOWING (INGESTION) : If ingested, dilute swallowed material by drinking water. DO NOT INDUCE VOMITING. Never give anything by mouth to an unconscious person. Immediate call a POISON CENTER or doctor/physician.

INHALATION : When symptoms occur, go into open air and ventilate suspected area. Remove to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER/doctor/physician.

GENERAL MEASURES : Never give anything by mouth to an unconscious person. Rescue personnel must wear appropriate protective equipment during removal of victims from contaminated areas. Treat symptomatically and supportively.

MOST IMPORTANT SYSMPTOMS AND EFFECTS: BOTH ACUTE AND DELAYED

GENERAL : Causes severe skin burns and eye damage. Effects of exposure (inhalation, ingestion or skin contact) to substance may be delayed. If exposed or concerned, get medical attention

INHALATION : Inhalation may cause immediate severe irritation progressing quickly to chemical burns.

SKIN CONTACT : Causes severe irritation which will progress to chemical burns.

EYE CONTACT : Causes serious eye damage. Contact may cause immediate severe irritation progressing quickly to chemical burns.

INGESTION	:	Contact may cause immediate severe irritation progressing quickly to chemical burns.

SECTION 5 – FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA	:	Water spray, fog, carbon dioxide, foam, dry chemical
SPECIAL HAZARDS (FIRE)	:	Not flammable. Contains sodium hypochlorite which may act as an oxidizer in some cases intensifying a fire.
EXPLOSION HAZARDS	:	Product is not explosive.
REACTIVITY (FIRE)	:	Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release toxic chlorine gases, and explosive hydrogen gas. When heated to decomposition, emits toxic fumes. Ammonium or Nitrogen containing compounds can react with sodium hypochlorite in this product releasing toxic chlorine gas. May be corrosive to metals.

SPECIAL INSTRUCTIONS TO FIRE FIGHTERS

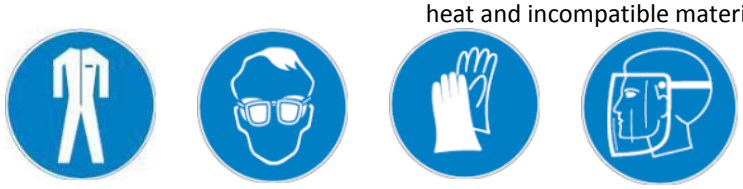
PRECAUTIONARY MEASURES	:	Exercise caution when fighting any chemical fire.
FIREFIGHTING INSTRUCTIONS	:	Use water spray or fog for cooling exposed containers.
PROTECTION DURING FIREFIGHTING	:	Do not enter fire area without proper protective equipment, including respiratory protection.
HAZARDOUS COMBUSTION PRODUCTS	:	Potassium oxides. May liberate toxic gases. Sodium oxides. Phosphorous oxides. Chlorine gas. Nitrogen oxides. Carbon oxides (CO, CO_2). Explosive Hydrogen gas.
OTHER INFORMATION (FIRE)	:	Do not allow run-off from fire fighting to enter drains or water courses.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES	:	Do not allow product to spread into the environment. Do NOT breathe vapors, mist or spray. Avoid all contact with skin, eyes or clothing. Use appropriate personal protective equipment (PPE). Evacuate unnecessary personnel. Ventilate are.
ENVIRONMENTAL PRECAUTIONS	:	Keep spilled material away from sewage/drainage systems and waterways. This product contains a U.S. EPA Reportable Quantity (RQ) substance. If amounts exceeding the Reportable Quantity are released, notification of the National Response Center (800) 424-8802 is required. See section15 for more information.
METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP	:	**Containment:** Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. **Cleaning Up:** Clear up spills immediately and dispose of waste safely. Absorb spillage to prevent material damage. Contact competent authorities after a spill.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING	:	Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and again when leaving work. Do not eat, drink or smoke when using this product. Wash hands and forearms thoroughly after handling.
CONDITIONS FOR SAFE STORAGE	:	Store in a dry, cool and well ventilated place. Keep container closed when not in use. Keep/store away from extremely high or low temperatures, direct sunlight, heat and incompatible materials (Strong acid, Strong oxidizers).



SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE) : The TLV in section in section III is the ACGIH/TLV-TWA (threshold limit value/time weighted average concentration for an eight hour work day). The STEL is the short term exposure limit and the (Ceil) is the ceiling limit.

COMPONENT (USA)	OSHA PEL – TWA	ACGIH TLV-Ceiling	ACGIH – STEL
Sodium Hydroxide	2 mg/m^3 (Ceiling)	2mg/m^3	2mg/m^3 (Ceiling)
Sodium Hypochlorite	2 mg/m^3	Not Established	2mg/m^3
Sodium dodecyl diphenyl oxide disulfonate	Not Established	Not Established	Not Established

EYE PROTECTION : Wear chemical splash goggles or face shield.
SKIN PROTECTION : Minimize contact with product. Wear chemical resistant coveralls, boots, gloves, apron and/or suitable long-sleeved clothing.
RESPIRATORY PROTECTION : In case of brief exposure use respiratory filter device. In case of intensive or longer exposure, use respiratory protective device that is independent of circulating air.
VENTILATION : Ensure adequate ventilation.
ADDITIONAL MEASURES : Emergency eyewash and safety shower facilities should be available in the immediate work area.
REQUIRED WORK/HYGIENE : Wash hands thoroughly after handling. Keep away from all food stuffs, beverages and feed. Do not eat, drink or smoke in work area.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear light yellow liquid with mild odor
ODOR : Mild chlorine odor.
ODOR THRESHOLD : Not available
PH : > 13.5
MELTING POINT/FREEZING POINT : Not available
BOILING POINT : Not available
FLASHPOINT : Not applicable
EVAPORATION RATE : Not available
FLAMMABILITY : Non flammable, Non combustible
LOWER FLAMMABILITY LIMIT : Not applicable
UPPER FLAMMABILITY LIMIT : Not applicable
VAPOR PRESSURE : Not available
VAPOR DENSITY (AIR=1) : Not available
RELATIVE DENSITY : 1.05
SOLUBILITY IN WATER : Soluble in water
PARTITION COEFFICIENT n-OCTANOL/WATER : Not available
AUTOIGNITION TEMPERATURE : Not available
DECOMPOSITION TEMPERATURE : Not available

SECTION 10 – STABILITY AND REACTIVITY

REACTIVITY : Thermal decomposition generates: Corrosive vapors. If the product is involved in a fire, it can release toxic chlorine gases. Explosion hydrogen gas. When heated to decomposition, emits toxic fumes. Ammonium or nitrogen containing compounds can react with the sodium hypochlorite in this product releasing toxic chlorine gas. May be corrosive to metals.
STABILITY : Stable under recommended storage conditions.
HAZARDOUS CONDITIONS TO : Direct sunlight. Extremely high or low temperatures. Heat. Combustible materials.

AVOID		Incompatible materials.
INCOMPATIBLE MATERIALS	:	Strong acids. Strong oxidizers. Metals. May be corrosive to metal. Phosphorous. Nitrogen containing compounds, ammonium compounds.
HAZARDOUS DECOMPOSITION PRODUCTS	:	Carbon oxides (CO, CO_2). Thermal decomposition generates: Corrosive vapors. Toxic gases. Chlorine gas. Hydrogen gas. Nitrogen oxides. Phosphorous oxides. Sodium oxides. Potassium oxides.

SECTION 11 – TOXICOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	:	**Sodium Hydroxide**
ACUTE TOXICITY	:	LD/LC50 values: Sodium Hydroxide: Oral LD50 = 500 mg/kg (rat). LC50 dermal and inhalation: Not listed. LD50 values: Potassium Hydroxide: Oral (rat): 214 mg/kg. LC50 dermal and inhalation: Not listed
TOXICOLOGICAL INFORMATION	:	**Sodium Hypochlorite**
PRIMARY ROUTES OF EXPOSURE	:	Eye, skin contact, inhalation
POTENTIAL HEALTH EFFECTS	:	Causes skin burns. Onset of symptoms may be delayed following exposure.
EYE CONTACT	:	Causes severe eye damage.
SKIN CONTACT	:	Causes skin burns. Onset of symptoms may be delayed following exposure.
INHALATION	:	Corrosive to respiratory tract.
INGESTION	:	May be harmful if swallowed. Ingestion may cause chemical burns, pain vomiting, difficulty breathing and other gastrointestinal effects.
CARCINOGENICITY	:	The components of this product are not classified as carcinogenic by OSHA, NTP or IARC.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE	:	Asthma and other respiratory conditions, skin disorders.
TOXICOLOGICAL INFORMATION	:	**Sodium dodecyl diphenyl oxide disulfonate**
ACUTE TOXICITY	:	Eye and skin irritant, Ingestion and Inhalation: Unknown
CHRONIC TOXICITY	:	No information available.
CARCINOGENICITY	:	This product is not listed as a human carcinogens by IARC, ACGIH, NTP or OSHA.

SECTION 12 – ECOLOGICAL INFORMATION

TOXICOLOGICAL INFORMATION	:	**Sodium Hydroxide**
AQUATIC TOXICITY	:	LC50 fish: 40mg/l.
PERSISTENCE AND DEGRADABILITY	:	No relevant information available.
BIOACCUMULATIVE POTENTIAL	:	No relevant information available.
NOTES	:	Water hazard class 1 (Self assessment): slightly hazardous for water. Do not allow undiluted product or large quantities of this product to reach ground water, water course or sewage system. Must no reach bodies of water or drainage ditch undiluted or un-neutralized. Rinse off larger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms.
ECOLOGICAL INFORMATION	:	**Sodium Hypochlorite**
ECOTOXICITY	:	This material may be toxic to aquatic organisms.
BIODEGRADABILITY	:	Degrades slowly to sodium chloride, sodium chlorate and oxygen
ECOLOGICAL INFORMATION	:	**Sodium dodecyl diphenyl oxide disulfonate**
ECOTOXICITY	:	Harmful to aquatic organisms. Marine pollutant
CHEMICAL FATE	:	Not readily biodegradable

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL RECOMMENDATIONS	:	This product must be disposed of in accordance with Federal, state and local environmental regulations. Discarded materials may be considered hazardous waste due to pH/corrosivity. It is the responsibility of the product user to determine at the time of disposal whether a material containing, or derived from this product, should be classified as a hazardous waste.
ECOLOGY-WASTE MATERIALS	:	This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME	:	UN3266, CORROSIVE LIQUID, BASIC, INORANIC, N.O.S. (SODIUM HYDROXIDE, SODIUM HYPOCHLORITE) 8, PGII
HAZARD CLASS AND LABEL	:	8 (Corrosive)
UN NUMBER	:	UN3266
PACKAGING GROUP	:	PGII
EPA REPORTABLE QUANTITY (RQ)	:	1000 LBS. (454 KG) as Sodium Hydroxide 100%.
MARINE POLLUTANT	:	Marine Pollutant
EMERGENCY RESPONSE GUIDE	:	ERG-154

SECTION 15 – REGULATORY INFORMATION

U.S. FEDERAL REGULATORY INFORMATION:

LISTED CARCINOGEN	:	Not listed
TSC STATUS	:	The ingredients of this product are listed on TSCA (Toxic Substances Control Act) inventory (40CFR 710.)
SARA SECTION 302	:	None
SARA SECTION 311/312 HAZARD CLASS	:	Immediate (acute) health hazard.
SARA SECTION 313	:	Not Listed
NFPA HEALTH	:	3
NFPA FLAMMABILITY	:	0
NFPA REACTIVITY	:	1

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION	:	C: Corrosive, Xn: Harmful.
DSD/DPD RISK (R) PHRASES	:	R34: Causes severe burns. R22: Harmful is swallowed.
DSD/DPD SAFETY (S) PHRASES	:	S1/2: Keep locked up and out of reach of children. S18: Handle and open containers with care. S26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S36/S37/39: Wear suitable protective clothing, gloves and eye/face protection. S45: In case of accidents or if you feel unwell, seek medical advice immediately. Show label where possible. S61: Avoid release to the environment. S64: If swallowed, rinse mouth with water if victim is conscious.
DSD/DPD HAZARD SYMBOL	:	C: Corrosive, Xn: Harmful

CANADIAN REGULATORY INFORMATION

WHMIS CATEGORY : Class E: Corrosive, Class D2B: Materials that cause other toxic effects (TOXIC). Sodium Hypochlorite,

INGREDIENT DISCLOSURE LIST : Listed, This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the sds contains all of the information required by the CPR.

DOMESTIC SUBSTANCES LIST (DSL) : Listed

SECTION 16 – OTHER INFORMATION

DISCLAIMER : The information contained herein has been compiled from sources believed to be realiable and accurate to the best of our knowledge at this date. It is provided without warranty, expressed or implied, as to the results of use of this information or to the product to which it relates. Wesmar Co. assumes no responsibility for injury to any person or property resulting from any use of the material. Each user assumes the risk in their use of this product and should review the data and recommendations in the specific context of their intended use.

CERCLA : Comprehensive Environmental Response, Compensation, and Liability Act.
EINECS : European Inventory of Existing Commercial Chemical Substances
IMDG : International Maritime Code for Dangerous Goods
IARC : International Agency for Research on Cancer
IATA : International Air Transportation Association
ACGIH : American Conference of Governmental Industrial Hygienists
NFPA : National Fire Protection Association (USA)
NTP : National Toxicology Program
SARA : Superfund Amendments and Reauthorization Act
TSCA : Toxic Substances Control Act
HMIS : Hazardous Materials Identification System (USA)
WHMIS : Workplace Hazardous Materials Information System
LC50 : Lethal concentration, 50 percent
LD50 : Lethal dose, 50 percent
STOT : Systemic Target Organ Toxicity
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