

Safety Data Sheet

SUPER STEEM MP

SECTION 1 – PRODUCT IDENTIFICATION

PRODUCT NAME SUPER STEEM MP
SYNONYMS Product is a mixture: No synonyms are available
PRODUCT USE Alkaline 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



SECTION 2 – HAZARD IDENTIFICATION

GHS – US CLASSIFICATION : H290 Metal corrosion Category 1
: H314 Skin Corrosion Category 1B
: H318 Serious Eye Damage Category 1B
: H412 Aquatic Acute Category 3

HAZARD PICTOGRAMS :



SIGNAL WORD : **DANGER**

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

GHS PHYSICAL HAZARDS : H290 May be corrosive to metals.
: H314 Causes severe skin burns and eye damage.
: H318 Causes serious eye damage.
: H412 Harmful to aquatic life with long lasting effects.

GHS PRECAUTIONARY HAZARDS : P101 If medical advice is needed, have product container or label at hand.
P102 Keep out of reach of children.
P103 Read label before use.
P260 Do not breathe dust/fume/gas/mist/vapors/spray.
P264 Wash skin and contaminated clothing thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P280 Wear suitable protective gloves/protective clothing/eye protection/face protection.
P301+P330 IF SWALLOWED. Rinse mouth. Do NOT induce vomiting.
+P331
P303+P361 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.
+P353
: P305+P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
+P338
: P305+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position.
: P310 Immediately call a POISON CENTER or doctor/physician.
: P330 Rinse mouth if ingested.
: P405 Store locked up.
: P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

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 = 0
HMIS ratings (scale 0-5): : Health = 3, Fire = 0, Reactivity = 0

SECTION 3 – COMPOSITON/INFORMATION ON INGREDIENTS

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

COMPONENT	PERCENT	CAS #	EC #	GHS CLASS
Sodium Hydroxide	25-45	1310-73-2	215-185-5	Metal Corr Cat 1 Skin Corr. Cat. 1A, Eye Dam. Cat. 1 Acute Aquatic Cat 3
Sodium Carbonate		497-19-8	207-838-8	Skin Irrit. Cat 2, Eye Irrit. Cat 2A
Sodium Tripolyphosphate		7758-29-4	231-838-7	Skin & Inhalation Irrit. Cat 4
Sodium Metasilicate		6834-92-0	229-912-9	Corr to Metals Cat 1, Skin Corr: Cat 1C, Eye Corr. Cat 1, Acute Tox Oral Cat 4
Sodium Dodecylbenzene Sulfonate BAF		25155-30-0	246-680-4	Skin Irrit Cat 4, Eye Dam Cat 2 Acute Tox Cat 4, STOT SE Cat 3

Corr. = Corrosion, Dam. = Damage, Tox = Toxic, Irrit = Irritation, Cat = Category, Tox = Toxic, STOT-SE = Specific 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.

SECTION 5 – FIRE FIGHTING MEASURES

- EXTINGUISHING MEDIA** : Dry chemical, foam, water or carbon dioxide
- SPECIAL PROTECTIVE EQUIPMENT AND PRECAUTIONS FOR FIREFIGHTER** : In the event of a fire, wear a NIOSH (USA) or CEN (EU) approved, positive pressure, self-contained breathing apparatus (SCUBA) and full protective clothing. Evacuate all non-essential personnel from the danger area.
- UNUSUAL FIRE AND EXPLOSION HAZARDS** : No further relevant information is available.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

- PERSONAL PRECAUTIONS, PROTECTIVE EQUIPMENT AND EMERGENCY PROCEDURES** : Restrict access to keep out unauthorized or unprotected personnel. Wear protective equipment. Avoid inhalation and direct contact.
- 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

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METHODS AND MATERIALS FOR CONTAINMENT AND CLEAN-UP

Response Center (800) 424-8802 is required. See section 15 for more information.

: All clean-up personnel must be properly trained. Confine the spill and remove incompatible materials and ignition sources. Ensure adequate ventilation. Secure the source of the leak if conditions are safe. Neutralize spill and collect using an appropriate absorbent material such as clay or vermiculite. Place waste in an appropriate container for disposal. Use care during clean-up to avoid exposure to the material and injury from broken containers.

SECTION 7 – HANDLING AND STORAGE

PRECAUTIONS FOR SAFE HANDLING

: Use with adequate ventilation. Wear proper protective equipment. Do not mix with water or acids without proper dilution and agitation to prevent a potentially violent reaction.

CONDITIONS FOR SAFE STORAGE

: Store in closed, properly labeled containers. Protect containers from heat, physical damage, ignition sources and incompatible materials. Have emergency equipment for fires and spills readily available.



SECTION 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

TLV (THRESHOLD LIMIT VALUE)

: The TLV 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	OSHA PEL – TWA	ACGIH TLV – Ceiling	ACGIH – STEL
Sodium Hydroxide	2 mg/m ³ (Ceiling)	2 mg/m ³	2 mg/m ³ (Ceiling)
Sodium Carbonate	Not Established	Not Established	Not Established
Sodium Tripolyphosphate	Not Established	Not Established	Not Established
Sodium Metasilicate	8 hr Recommended 3mg/m ³	Not Established	Not Established
Sodium Dodecylbenzene Sulfonate BAF	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

: Off white free flowing powder with pleasant odor.

ODOR

: Mild odor

ODOR THRESHOLD

: Not available

PH

: > 12.5

MELTING POINT/FREEZING

: Not available

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POINT	
BOILING POINT	: Not available
FLASHPOINT	: Non flammable, non combustible
EVAPORATION RATE	: Not available
FLAMMABILITY	: Not applicable
LOWER FLAMMABILITY LIMIT	: Not applicable
UPPER FLAMMABILITY LIMIT	: Not applicable
VAPOR PRESSURE	: Not available
VAPOR DENSITY (AIR=1)	: Not available
RELATIVE DENSITY	: > 1.0
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

STABILITY	: Stable under recommended storage conditions.
HAZARDOUS CONDITIONS TO AVOID	: No decomposition if used according to specifications.
INCOMPATIBLE MATERIALS	: Keep away from strong acids.
HAZARDOUS DECOMPOSITION PRODUCTS	: No dangerous decomposition products known.

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
PRIMARY IRRITANT EFFECT:	
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.
TOXICOLOGICAL INFORMATION	: Sodium Carbonate
ACUTE TOXICITY	: Not Classified. LD50 values: Oral LD50: 4090mg/kg (rat).
SKIN CORROSION/IRRITATION	: Causes skin irritation.
SERIOUS EYE DAMAGE/IRRITATION	: Causes serious eye irritation.
TOXICOLOGICAL INFORMATION	: Sodium Tripolyphosphate
ACUTE TOXICITY	: Oral - rat LD50 - 5,400 mg/kg; practically non-toxic Dermal - rabbit LD50 - > 7,940 mg/kg; practically non-toxic Eye Irritation - rabbit - 3.3/110.0; slightly irritating Skin Irritation - rabbit - 0-0/8.0 (24-hr exp.); not irritating Inhalation - LC50 > 0.39 mg/L (rat, 4 hr) (maximum attainable concentration)
TOXICOLOGICAL INFORMATION	: Sodium Metasilicate
ACUTE TOXICITY	: LD50 Oral: 1280mg/kg (Rat), 2400mg/kg (mouse)

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CHRONIC TOXICITY	:	No data were available regarding chronic exposure, reproductive or teratological effects, or carcinogenicity for sodium metasilicate.
CARCINOGENICITY	:	This product is not classified as a carcinogen by NTP, IARC or OSHA.
TOXICOLOGICAL INFORMATION	:	Sodium Dodecylbenzene Sulfonate
ACUTE TOXICITY	:	LD50 Oral rat: 438 mg/kg.
INHALATION TOXICITY	:	No data available
DERMAL TOXICITY	:	No data available
SKIN CORROSION/IRRITATION	:	Skin – rabbit Result: Skin irritation - 24 h
SERIOUS EYE DAMAGE/IRRITATION	:	Eyes – rabbit Result: Severe eye irritation - 24 h
RESPIRATORY/SKIN SENSITISATION	:	No data available
GERM CELL MUTAGENICITY	:	No data available
CARCINOGENICITY	:	No components of this product present at levels greater than or equal to 0.1% are identified as probable, possible or confirmed human carcinogen by IARC ACGIH, NTP or OSHA.

SECTION 12 – ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION	:	Sodium Hydroxide
AQUATIC TOXICITY	:	No relevant information available.
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 not 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 Carbonate
ECOTOXICITY	:	LC50 Fishes 1: 300mg/L, EC Daphnia: 265mg/L, LC50 Fishes 2: 740mg/L.
PERSISTENCE and DEGRADABILITY	:	No data available.
BIOACCUMULATIVE POTENTIAL	:	No data available.
ECOLOGICAL INFORMATION	:	Sodium Tripolyphosphate
ECOTOXICITY	:	Invertebrate: 48-hr LC50 Daphnia magna: > 1000 mg/L; Practically Nontoxic 96 hr. LC 50 > 100 mg/L, non-toxic (Rainbow trout, Inland silversides and mysid shrimp). [FMC I89-1081, 1082 & 1083] 48 hr. LC 50> 100 mg/L, non-toxic (Daphnia magna) [FMC I89-1084]
PERSISTENCE and DEGRADABILITY	:	No data available.
ENVIRONMENTAL FATE	:	Phosphates: Inorganic phosphates, including this product, at high concentrations in the environment have the potential to cause eutrophication in aquatic systems. This condition is characterized by excessive algal growth, and subsequent decreases in oxygen levels. In general, proper use and disposal of this product should pose no adverse ecological risk.
ECOLOGICAL INFORMATION	:	Sodium Metasilicate
ECOTOXICITY (Aquatic Toxicity)	:	This material has exhibited moderate toxicity to aquatic organisms.
BIODEGRADATION	:	This material is inorganic and not subject to biodegradation.
PERSISTENCE	:	This material is believed to persist in the environment.

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BIOCONCENTRATION : This material is not expected to bio-concentrate in organisms.

ECOLOGICAL INFORMATION : **Sodium Dodecylbenzene Sulfonate**
TOXICITY TO FISH : Mortality NOEC - Oncorhynchus kisutch - 3.1 mg/l - 3 d
Mortality LOEC - Oncorhynchus kisutch - 5.6 mg/l - 3 d
LC50 - Oncorhynchus mykiss (rainbow trout) - 3.2 - 5.6 mg/l - 96 h

SECTION 13 – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL : 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

SECTION 14 – TRANSPORTATION INFORMATION

DOT/IMDG/ IATA PROPER SHIPPING NAME : UN-1823, SODIUM HYDROXIDE, SOLID, MIXTURE 8, PG-II
HAZARD CLASS AND LABEL : 8 (Corrosive)
UN NUMBER : UN-1823
PACKAGING GROUP : PG-II
EPA REPORTABLE QUANTITY (RQ) : 1000 LBS. (454 KG) as Potassium Hydroxide 100%.
MARINE POLLUTANT : Not listed.
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 : **EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355, APPENDIX A):**
No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
SARA SECTION 311 HAZARD CATEGORIES (40 CFR 370): : None listed.
SARA SECTION 313 : This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
NFPA HEALTH : 3
NFPA FLAMMABILITY : 0
NFPA REACTIVITY : 0

EUROPEAN UNION REGULATORY INFORMATION:

EC CLASSIFICATION : C: Corrosive, Xn: Harmful.
DSD/DPD RISK (R) PHRASES : R34: Causes severe burns.
R22: Harmful if swallowed.



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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.



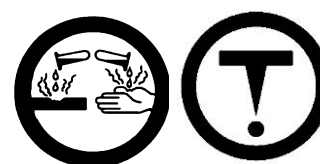
DSD/DPD HAZARD SYMBOL : C: Corrosive, Xn: Harmful

CANADIAN REGULATORY INFORMATION

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

DOMESTIC SUBSTANCES LIST (DSL) : Listed

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.



SECTION 16 – OTHER INFORMATION

DISCLAIMER : The information contained herein has been compiled from sources believed to be reliable 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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