Safety Data Sheet
Revision Date: 10/30/2019

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product Name:	Mar-Tek 911
Product Code:	MT911
Product Use:	General Purpose Cleaner
Manufacturer Address:	Mar-Tek Industries 301 Industrial Drive, Forney Texas 75126
Phone:	(214) 350-9401
Emergency Telephone No.:	ChemTel Inc. 1-800-255-3924

SECTION 2: Hazards Identification

GHS Classification of substance or mixture:

GHS Classification:

Skin corrosion/irritation	Category 1, 1A, AB,1C
Specific target organ toxicity (single exposure)	Category 3

GHS Label elements including hazards and precautionary statements:

Signal word: **DANGER**

Pictogram

Hazard statements:

H314 Causes severe skin burns and eye damage.
H335 May cause respiratory irritation; or
H336 May cause drowsiness or dizziness

Precautionary statements:

Prevention:

P260 Do not breathe dust or mists.
P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P271 Use only outdoors or in well-ventilated area.

Response:

P301+330+331 IF SWALLOWED: Rinse mouth. Do not induce vomiting.
P302+361+354 IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes.
P363 Wash contaminated clothing before reuse.
P304+340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P316 Get emergency medical help immediately.
P321 See treatment (Refer SDS section 4)
P305+354+338 IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P319 Get medical help if you feel unwell.

Storage:

P405 Store locked up.
P403+233 Store in a well-ventilated place. Place container tightly closed

Disposal:

P501 Dispose in accordance to local/regional/national/international regulation.
Supplemental hazard statements: Corrosive to eyes and skin. Irritating to respiratory system

SECTION 3: Composition/Information on Ingredients

Components	
Chemical Name:	Sodium Metasilicate
Common Name:	Water glass
EC Number:	229-912-9
CAS Number:	6834-92-0
Content:	1-5%
Chemical Name:	Ethanolamine
Common Name:	MEA
EC Number:	205-483-3
CAS Number:	141-43-5
Content:	1-6%
Chemical Name:	Potassium Hydroxide
Common Name:	Caustic Potash
EC Number:	215-181-3
CAS Number:	310-58-3
Content:	1-6%
Non- hazardous components	85%

SECTION 4: First aid measure

General advice: *Treat symptomatically.*

If inhaled: Remove person to fresh air and keep comfortable for breathing. Get medical help immediately.
If on skin (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If swallowed: Rinse mouth. DO NOT INDUCE VOMITING. Get medical help if you feel unwell.
MOST IMPORTANT SYMPTOMS/EFFECT ACUTE AND DELAYED
Corrosive. Prolonged contact cause serious eye and tissue damage. May cause burns in mucous membranes, throat, esophagus and stomach. Symptoms may be delayed.

SECTION 5: Fire-fighting measures

Suitable extinguishing media: Use fire extinguishing media appropriate for surrounding materials.
Unsuitable extinguishing media: Carbon Dioxide
Specific hazards arising from the chemical: Fire may produce irritating, corrosive and or toxic gases.
Special protective equipment and precautions for firefighters: Firefighters should wear full protective clothing including self -contained breathing apparatus.
Fire –fighting equipment/instructions: Keep containers cool with a water spray if involved with fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep unnecessary personnel away. Local authorities should be advised if significant spillages couldn't be contained. Stay upwind. Keep out low areas. Ensure adequate ventilation. Avoid any exposure. Use personal protection recommended in Section 8 of the SDS.
Methods and materials for containment and cleaning up: Should not be released into the environment.
Large spills: Dike far ahead of liquid spill for later disposal. Use non-combustible material like vermiculite, sand or earth soak up the product and place into a container for later disposal.
Small spills: Absorb spill with vermiculite or inert material. Clean contaminated surface thoroughly. After removal flush contaminated area thoroughly with water.
Never return spills in original container for re-use.
Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water.

SECTION 7: Handling and storage

Precaution for safe handling: Avoid contact with skin and eyes. Keep containers closed when not in use.
Conditions for safe storage, including any incompatibilities: Keep container in a well-ventilated place. Keep this and all chemicals out of hands of children.

SECTION 8: Exposure controls/personal protection

Occupational exposure limit: Ventilation and appropriate grounding containers:

Component	Exposure Limit Values	Basis	Entity
Sodium Metasilicate	Contains no substances with occupational exposure limit values		
Ethanolamine	3ppm (8mg/m3) 6ppm(15mg/m3) 3ppm(8mg/m3) 6ppm(15mg/m3) 3ppm (8mg/m3) 6ppm(15mg/m3)	TWA STEL TWA STEL TWA STEL	NIOSH (REL) ACGIH (TLV) CAL/OSHA PELs
Potassium Hydroxide	2mg/m3 2mg/m3	Ceiling Ceiling	ACGIH (TLV) NIOSH (REL)

Biological limit values: No biological limits noted for the ingredients.
Appropriate engineering controls: None usually needed
Individual protection measures, such as personal protective equipment:
Eye protection: Safety glasses or approved equivalent as necessary to minimize eye contact.
Skin protection: Neoprene or other materials may be used if documented evidence of compatibility. Wear appropriate chemical resistant gloves. Be aware that the liquid may penetrate the gloves.
General hygiene considerations: When using, do not eat, drink or smoke. Wash hands before breaks and immediately after handling the product. Remove and isolate contaminated clothing and shoes. Handle in accordance with good industrial hygiene and safety practice. Launder contaminated clothing before reuse.

SECTION 9: Physical and chemical properties

Appearance
Physical state: liquid
Form: liquid
Color: Amber
Odor: Characteristic
Odor threshold
pH: 12-13
Melting point/freezing point:Not determined

Initial boiling point/boiling range: Not determined
Flash point: None
Evaporation rate: Not determined
Flammability (solid, gas)
Upper/Lower flammability or explosive limits
Flammability limit-lower (%): None
Flammability limit-upper (%): None
Vapor pressure: Not determined
Vapor density: Not determined
Specific gravity: 1.086
Solubility (ies): Not determined
Partition coefficient
(n-octanol/water): Not determined
Auto-ignition temperature: Not determined
Decomposition temperature: Not determined
Viscosity: Not determined

SECTION 10: Stability and reactivity

Reactivity: This product is non-reactive under normal condition of use, storage and transport
Chemical stability: Stable
Possibility of hazardous reactions: Hazardous polymerization does not occur.
Conditions to avoid: None known
Incompatible materials: Strong acids and strong oxidizers.
Hazardous decomposition products: May evolve carbon dioxide, carbon monoxide and other unidentified products if involve in a fire.

SECTION 11: Toxicological information

Information on likely routes of exposure:
Ingestion: May cause gastric disturbance
Inhalation: Irritating to nose, throat and lungs
Skin contact: May cause dermatitis and or drying of skin
Eye contact: Risk of serious eye damage
Symptoms related to the physical, chemical and toxicological characteristics: May cause eye irritation, may cause conjunctivitis, shortness of breath, cough and sore throat.
Information on toxicological effects
Acute toxicity: Harmful if swallowed.
Skin corrosion/irritation: Causes skin dryness
Serious eye damage/eye irritation: Causes eye damage
Respiratory sensitization: Not classified
Skin sensitization: Not classified
POTENTIAL HEALTH EFFECTS:
Inhalation: If sprayed or misted may cause chemical pneumonitis or chemical burns. This product is not toxic by inhalation.
Skin: Minimally irritating. Prolong contact may cause dermatitis and drying of skin.
Ingestion: Do not take internally. May cause nausea, gastrointestinal distress or diarrhea.
Eyes: May cause temporary eye irritation
Potential environmental effect: Not available

Germ cell mutagenicity: Not classified
Carcinogenicity: Not classified
Reproductive toxicity: Not classified
Specific target organ toxicity Single exposure: Not classified
Specific target toxicity Repeated exposure: Not classified
Aspiration hazard: Not classified
Chronic effects: Prolonged inhalation may be harmful.

SECTION 12: Ecological information

Eco-toxicity: The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large spill or frequent spills can have a harmful or damaging effect on the environment.
Persistent and degradability: No data available
Bio-accumulative potential: No data available
Mobility in soil: The product is water-soluble and may spread in water systems.
Other adverse effect: Expected to be harmful to aquatic organism.

SECTION 13: Disposal consideration

Disposal instruction: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Dispose of contents/container in accordance with the local/regional/national/international regulations. Dispose in accordance with all applicable regulation.
Hazardous waste code: D002: Waste Corrosive material. Waste code should be assigned by the user based on the application for which this product was used.
Waste from residue/unused product: Dispose of in accordance with the local regulations. Contaminated packaging: Dispose of in accordance with local regulations. Since empties containers may retain product residue, follow label warnings even after container emptied.

SECTION 14: Transportation information

Department of Transportation

Proper shipping name:	Potassium hydroxide, solution
Hazard Class:	8
UN Number:	1814
Packaging group:	II
Marine Pollutant:	No

SECTION 15: Regulatory information

U.S Federal regulations:
All ingredients are TSCA listed
Toxic Substances Control Act (TSCA)
Comprehensive Response Compensation and Liability Act (CERCLA)
Superfund Amendments and Reauthorization Act (SARA III)
SARA 302: EHS Reporting not required
SARA 311: Reporting not required

SARA 313: Emission and release reporting not required
SARA 304: Hazardous release reporting not required
SARA 312: Inventory reporting not required

State regulations:
US-California proposition 65-Carcinogens and Reproductive Toxicity (CRT)
Listed substance: No substance present
Pennsylvania Right to Know Act: (Potassium hydroxide: Listed but less than the reportable quantity)
New Jersey Right to Know Act: No substance present
Massachusetts Right to Know Act: (Potassium hydroxide: Listed but less than the reportable quantity)

SECTION 16: Other information

Revision Date: 10/30/19
NFPA rating:

HMIS III
Health: 1 Flammability: 0 Physical hazards: N/A

Abbreviation and acronyms
ACGIH American Conference of Governmental Industrial Hygienists

CAS	Chemical Abstract Service
CEIL	Ceiling
DOT	Department of Transportation
GHS	Globally Harmonized System
HCS	Hazards Communication Standards
HMIS	Hazardous Materials Identification System
IDLH	Immediate Dangerous to Life or Health
NE	Not Established
NIOSH	National Institute of Occupational Safety and Health
NFPA	National Fire Protection Association
OSHA	Occupational Safety and Health Administration
PEL	Permissible Exposure Limit
REL	Recommended Exposure Limit
SARA	Superfund amendments and Reauthorization Act
STEL	Short Term Limit
TLV	Threshold Limit Value
TSCA	Toxic Substances Control Act
TWA	Time Weighted Average
WHMIS	Workplace Hazardous Material Information System
WEEL	Workplace Environmental Exposure Levels

Disclaimer: Mar-Tek Industries provide the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This documentation is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

----------END OF SDS----------