MAR-TEK INDUSTRIES

SAFETY DATA SHEET
REVISION DATE: 1/29/15

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

Product Name:	Mar-Tek 233
Product Code:	MT233
Product Use:	Carbon steel corrosion inhibitor
Manufacturer Address:	**Mar-Tek Industries** 301 Industrial Drive, Forney Texas 75126
Phone:	(214) 350-9401
Emergency Telephone No.:	
ChemTel Inc.	**(800) 255-3924 and +1(813) 248-0585**

SECTION 2: Hazards Identification

GHS Classification of substance or mixture

GHS Classification: Eye irritation Category 2A

GHS Label elements including hazards and precautionary statements:

Signal Word: Warning!

Pictogram

Hazard statements: H319 Causes serious eye irritation

Precautionary statements:

Prevention: P264 Wash hands thoroughly after handling.
P280 Wear eye protection/face protection.

Response: P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing.
P337+313 If eye irritation persists. Get medical advice/attention

SECTION 3: Composition/Information on Ingredients

Components		Classification
Chemical Name:	Triethanolamine	Eye irrit; 2A H319
Common Names:	Trolamine	
EINECS:	203-049-8	
CAS No.:	102-71-6	
Content (w/w):	1-10%	
Other non hazardous components	90%	

SECTION 4: First aid measure

Eyes: Flush with water for 15 minutes. Lift eyelids while flushing to decontaminate all areas around the eye and eyelid. Remove contact lenses if present and easy to do. Get medical attention, if irritation persists.
Skin: Remove contaminated clothing. Wash effected area with soap and water. If irritation persists seek medical attention. Decontaminate clothing and shoes before reuse. Discard contaminated leather article.
Ingestion: If swallowed, DO NOT induce vomiting. Drink 3 to 4 glasses of milk or water and call the nearest poison control center.
Inhalation: Evacuate to a safe area with plenty of fresh air. Allow the affected individual to rest in a well-ventilated area. If breathing distress continues, seek medical aid immediately.

SECTION 5: Fire-fighting measures

Suitable and unsuitable extinguishing media: Product may be flammable at high temperature. Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Use appropriate media adjacent fire. Cool unopened containers with water.
Special protective measure: Wear self contained, approved breathing apparatus and full protective clothing, including eye protection and boots.
Specific hazards arising from the chemical: May evolve carbon dioxide and other fragments of this product is involved in a fire.

SECTION 6: Accidental release measures

Personal precaution, protective equipment and emergency procedures: Wear recommended protective clothing. Remove contaminated garment promptly. Remove unnecessary personnel from the area. Floors may be slippery; use care to avoid falling.
Environmental precautions: Do not contaminate municipal sewers or other open bodies of water with runoff promptly.
Methods and materials for containment and cleaning up: Dike the spill immediately with appropriate materials to prevent the spread of liquid. Absorb the material with an inert absorbent such as sand, dirt, vermiculite, "oil dry" or use absorbent pads. Transfer liquids or solid diking material to a suitable container and dispose of in accordance with local, state or federal regulations.

SECTION 7: Handling and storage

Precaution for safe handling: Avoid prolonged contact in skin and eyes. Avoid breathing vapors. Use adequate ventilation if handling hot product. And wash work clothes frequently.
Conditions for safe storage, including any incompatibilities: Store in a dry, cool and well-ventilated area. This product may react with carbon dioxide or oxygen in the air to form hazardous products like strong oxidizing agents, acids. Always ensure that containers, whether empty, part full or full are tightly sealed unless in use.

SECTION 8: Exposure controls/personal protection

Engineering controls: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the workstation location.

Occupational exposure controls: Ventilation and appropriate grounding of containers.

Component	Exposure Limit	Basis	Entity
Triethanolamine	5 mg/m3	PEL	OSHA

Personal protective equipment

Eyes: Wear chemical or safety glasses or goggles.
Inhalation: Provide local exhaust, preferably mechanical. If exposure level is excessive, use an approved respirator.

Skin: Wear nitrile or rubber gloves or other material may be used if documented evidence of compatibility

Other recommendations: Provide eye wash stations, quick drench showers and washing facilities accessible to areas of use and handling.

SECTION 9: Physical and chemical properties

Appearance	
Physical state:	Liquid
Color:	Amber liquid
Odor:	Slight characteristic
Odor threshold:	Not available
pH:	10.3
Melting point/freezing point:	Not determined
Initial boiling point/boiling range:	Not determined
Flash point:	Not available
Evaporation rate:	Not available
Flammability (solid, gas)	Not flammable
Upper/Lower flammability or explosive limits	
Flammability limit-lower (%):	Not available
Flammability limit-upper (%):	Not available
Vapor pressure:	Not available
Vapor density:	Not available
Density:	Not available
Solubility (ies):	Infinite
Specific gravity:	1.03
VOC % :	Not determined
Partition coefficient	
(n-octanol/water):	Not available
Auto-ignition temperature:	Not available
Decomposition temperature:	Not available

SECTION 10: Stability and reactivity

Chemical stability: Stable

Possibility of hazardous reactions: Will not occur.

Condition to avoid: Exposure to air and light. Excessive heat

Incompatible materials: Strong oxidizing agents, acids

Hazardous decomposition: May involve carbon dioxide, carbon monoxide and other unidentified products if involved in fire.

SECTION 11: Toxicological information

Information on likely route and sign and symptoms of exposure

Ingestion:	Irritation, nausea, nausea and vomiting.
Inhalation:	Irritation, coughing and wheezing
Skin contact:	Irritation, redness, and itchiness
Eye contact:	Irritation, redness, watering eyes and itchiness
Chronic toxicity	Not available
Teratogenicity	Not available
Mutagenicity	Not available
Embryotoxicity	Not available
Specific target organ toxicity:	Not available
Reproductive Toxicity:	Not available
Respiratory/Skin sensitization:	Not available
Acute toxicity	
Skin:	LD50 Dermal-rabbit- >22.5g/kg
Eyes:	Not available
Respiratory:	Not available
Ingestion:	LD50 Oral-mouse -5,846 mg/kg
	LD50 Oral-rabbit -2,200 mg/kg

LD50 Oral-guinea pig -2,200mg.kg

Carcinogenicity

IARC	3-group3: Not classified as to its carcinogenicity to humans (triethanolamine).
ACGIH	No component of this product present at levels greater than or equal to 0.1% is identified as carcinogen or potential carcinogen by ACGIH.
NTP	No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.
OSHA	No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

SECTION 12: Ecological information

Ecotoxicity

Aquatic vertebrate	LC50-Lepomis macrochirus (Bluegill)-450-1000mg/l-96h
Aquatic invertebrate	EC50-Daphnia-609.98 mg/l-48 h
Terrestrial	Not available
Persistence and degradability	Result 96%-readily bio gradable
Bio-accumulative potential	Not available
Mobility in soil	Not available
PBT and vPVB Assessment	Not available
Other adverse effects	Not available

SECTION 13: Disposal consideration

Waste disposal method: Incinerate this material and all associated wastes, or bury in an approved landfill in accordance with government regulations. If these are not available consign the recovered materials to a licensed hazardous waste contractor.
Contaminated packaging: Dispose of container and unused content in accordance with federal, state and local requirements.

SECTION 14: Transportation information

US Department Of Transportation

Shipping Name:	Not regulated
Hazard Class:	Not dangerous goods
UN Number:	Not dangerous goods
Packaging Group:	None
Label statement:	None
Marine pollutant:	NO

SECTION 15: Regulatory information

TSCA inventory status	All ingredients are listed on the TSCA inventory
DSCL (EEC)	All ingredients are listed on the DSCL inventory
California proposition 65	Not listed
Massachusetts Right to Know Act	Listed
New Jersey Right to Know Act	Listed
Pennsylvania Right to Know Act	Listed
SARA 302	Not listed
SARA 304	Not listed
SARA 311	Triethanolamine
SARA 312	Triethanolamine
SARA 313	Not listed
WHIMIS Canada	Not listed

SECTION 16: Other information

Revision Date: 1/29/2015

Revision was made in sections: General revision

NFPA Ratings:	Health	1
	Flammability	0
	Reactivity	0
HMIS Ratings:	Health	1
	Flammability	0
	Reactivity	0

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----------