



MATERIAL SAFETY DATA SHEET

Formula 1855

PRODUCT USE: Cooling Water Scale and Corrosion Inhibitor

REVISION DATE: August 2011

1. PRODUCT AND COMPANY INFORMATION

Water Engineering Inc.
1574 County Rd 10
Mead, NE 68041

24 HOUR EMERGENCY TELEPHONE: (800) 255-3924
ACCOUNT NUMBER: MIS0004338
TO REQUEST AN MSDS: Contact Product Manager
CUSTOMER SERVICE: (800) 476-5545

MSDS NUMBER: 1855

PREPARED DATE: November 2000

2. HAZARDS CLASSIFICATION

OSHA REGULATORY STATUS: NON-REGULATED MATERIAL
GHS CLASSIFICATION: Not applicable
GHS SYMBOL: Not applicable
GHS SIGNAL WORD: Not applicable
GHS HAZARD STATEMENT: Not applicable

EMERGENCY OVERVIEW:

COLOR: Amber
PHYSICAL FORM: Liquid
ODOR: Slight
SIGNAL WORD: Not applicable
MAJOR HEALTH HAZARDS: Irritant to skin, eyes, and if ingested.
PHYSICAL HAZARDS: Data not available
ECOLOGICAL HAZARDS: Data not available
PRECAUTIONARY STATEMENTS: Data not available

POTENTIAL HEALTH EFFECTS:

INHALATION: Not available
SKIN CONTACT: Possible irritation with prolonged or repeated contact.
EYE CONTACT: Irritation
INGESTION: Irritation, nausea, vomiting; may be harmful.

TARGET ORGANS: Not available
CHRONIC EFFECTS: None known

CARCINOGEN STATUS:

OSHA: No
NTP: No
IARC: No

See Section 11: TOXICOLOGICAL INFORMATION

3. COMPOSITION/INFORMATION ON INGREDIENTS

COMPONENT: Potassium Hydroxide 45%
CAS NUMBER: 1310-58-3
PERCENTAGE: 10-15%

COMPONENT: 1-Hydroxyethylidene-1, 1-diphosphonic acid
CAS NUMBER: 2809-21-4
PERCENTAGE: 1-5%

COMPONENT: Polymaleic Acid
CAS NUMBER: 26099-09-2
PERCENTAGE: 1-5%

COMPONENT: 2-Phosphonobutane-1,2,4-Tricarboxylic Acid



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CAS NUMBER:	37971-38-1		
PERCENTAGE:	1-5%		

The remaining components are non-hazardous, proprietary information

4. FIRST AID MEASURES

INHALATION:	Not available
SKIN CONTACT:	Wash thoroughly with soap and water. Remove contaminated clothing.
EYE CONTACT:	Flush immediately with water for 15 minutes. Get medical attention.
INGESTION:	DO NOT INDUCE VOMITING. Dilute by drinking water or milk.

NOTE TO PHYSICIAN: Get medical attention for eye contact, ingestion, or if irritation persists.

5. FIRE FIGHTING HAZARDS

FIRE AND EXPLOSION HAZARDS:	None
EXTINGUISHING MEDIA:	As for surrounding fire; product is primarily water and will not burn.
FIRE FIGHTING:	None
SENSITIVITY TO MECHANICAL IMPACT:	Not available
SENSITIVITY TO STATIC DISCHARGE:	Not available
FLASH POINT:	None(TCC)
HAZARDOUS COMBUSTION PRODUCTS:	Not available

6. ACCIDENTAL RELEASE MEASURES

OCCUPATIONAL RELEASE:

Small Spills:	Flush away with water.
Large Spills:	Dike to contain; reclaim as much as possible. Absorb on inert material. Flush residue away with water.

7. HANDLING AND STORAGE

STORAGE:	Keep out of reach of children
HANDLING:	Do not get in eyes. Avoid prolonged or repeated skin contact.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS:	Not available
BIOLOGICAL LIMIT VALUES:	Not available
VENTILATION:	None required
EYE PROTECTION:	Chemical splash goggles.
CLOTHING:	Wear proper clothing to minimize skin contact. Launder contaminated clothing before reuse.
GLOVES:	Rubber or plastic
PROTECTIVE MATERIAL TYPES:	Not available
RESPIRATOR:	None required

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:		VAPOR DENSITY:	As water
COLOR:	Amber	SPECIFIC GRAVITY (water=1.000):	1.0-1.1
PHYSICAL FORM:	Liquid	BULK DENSITY:	Not available
ODOR:	Slight	WATER SOLUBILITY:	Complete
BOILING POINT:	212°F	pH:	>12
MELTING POINT:	Not available	VOLATILITY:	Not available
FLASH POINT:	None (TCC)	ODOR THRESHOLD:	Not available
DECOMPOSITION POINT:	Not available	EVAPORATION RATE:	1
VAPOR PRESSURE:	As water	COEFFICIENT OF WATER/OIL DISTRIBUTION:	Not available



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10. STABILITY AND REACTIVITY

REACTIVITY: Stable
CONDITIONS TO AVOID: None
INCOMPATIBILITIES: Do not mix with acids; neutralizes active ingredients.
HAZARDOUS DECOMPOSITION: If evaporated to dryness, as in fire, may release oxides of carbon, nitrogen, phosphorus
POLYMERIZATION: Will not occur

11. TOXICOLOGICAL INFORMATION

Formula 1855, Cooling Water Scale and Corrosion Inhibitor:

IRRITATION DATA: Not available
TOXICITY DATA: Not available
CARCINOGEN STATUS: None under OSHA, IARC or NTP.

12. ECOLOGICAL INFORMATION

ECOTOXICITY DATA: Not available
ALGAL TOXICITY: Not available
FATE AND TRANSPORT: Not available
BIODEGRATION: Not available
PERSISTENCE: Not available
BIOCONCENTRATION: Not available
OTHER ECOLOGICAL INFORMATION: Not available

13. DISPOSAL CONSIDERATIONS

Dispose of in accordance with Federal, State and Local regulations.

14. TRANSPORT INFORMATION

U.S. DOT 49 CFR 172.101:
PROPER SHIPPING NAME: NON-REGULATED MATERIAL
ID NUMBER: Not applicable
HAZARD CLASS OF DIVISION: Not applicable
PACKING GROUP: Not applicable
LABELING REQUIREMENTS: Not applicable

CANADIAN TRANSPORTATION OF DANGEROUS GOODS:

SHIPPING NAME: NON-REGULATED MATERIAL
UN NUMBER: Not applicable
CLASS: Not applicable
PACKING GROUP/RISK GROUP: Not applicable

15. REGULATORY INFORMATION

U.S. REGULATIONS:

CERCLA SECTIONS 102a/103 HAZARDOUS SUBSTANCES (40 CFR 302.4):

SARA TITLE III SECTION 302 EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355.30):

COMPONENT: Potassium Hydroxide 50%
CAS NUMBER: 1310-58-3
PERCENTAGE: 10-15%
T.P.Q.: 1,000 lbs
R.Q.: 1,000 lbs

COMPONENT: Maleic Acid
CAS NUMBER: 110-16-7
PERCENTAGE: 0-10%
T.P.Q.: 5,000 lbs
R.Q.: 5,000 lbs



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SARA TITLE III SARA SECTIONS 311/312 HAZARDOUS CATEGORIES (40 CFR 370.21):

ACUTE: NO
CHRONIC: NO
FIRE: NO
REACTIVE: NO
SUDDEN RELEASE: NO

SARA TITLE III SECTION 313 (40 CFR 372.65):

COMPONENT: Potassium Hydroxide 50%
CAS NUMBER: 1310-58-3
PERCENTAGE: 10-15%

COMPONENT: Maleic Acid
CAS NUMBER: 110-16-7
PERCENTAGE: 0-10%

OSHA PROCESS SAFETY (29 CFR 1901.119):

OTHER U.S. REGULATIONS:

STATE REGULATIONS:

California Proposition 65:

NEW JERSEY WORKER AND COMMUNITY RIGHT TO KNOW:

REPORTING REQUIREMENT:

(LIST CHEMICAL, CAS NUMBER, PERCENTAGE)

SPECIAL HEALTH HAZARD SUBSTANCE LIST:

(LIST CHEMICAL, CAS NUMBER, PERCENTAGE)

PENNSYLVANIA RIGHT TO KNOW:

REPORTING REQUIREMENT:

(LIST CHEMICAL, CAS NUMBER, PERCENTAGE)

CANADIAN REGULATIONS:

WHMIS CLASSIFICATION:

NATIONAL INVENTORY STATUS:

U.S. INVENTORY (TSCA):

TSCA 12(b) EXPORT NOTIFICATION:

CANADA INVENTORY (DSL/NDL):

16. OTHER INFORMATION

NFPA RATINGS/ HMIS RATINGS (SCALE 0-4): HEALTH= 1/1 FIRE= 0/0 REACTIVITY= 0/0 C

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