



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



MATERIAL SAFETY DATA SHEET

Formula 1855

PRODUCT USE: Cooling Water Scale and Corrosion Inhibitor **REVISION DATE:** August 2011
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



MATERIAL SAFETY DATA SHEET

Formula 1855

PRODUCT USE: Cooling Water Scale and Corrosion Inhibitor

REVISION DATE: August 2011

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
PERSISTANCE: 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



MATERIAL SAFETY DATA SHEET

Formula 1855

PRODUCT USE: Cooling Water Scale and Corrosion Inhibitor

REVISION DATE: August 2011

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

Disclaimer:

Although reasonable care has been taken in the preparation of this document, we extend no warranties and make no representations as to the accuracy or completeness of the information contained herein, and assume no responsibility regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Each individual should make a determination as to the suitability of the information for their particular purpose(s).

The above information is not claiming characteristics of the product in term of legal claims of performance / guarantee. This information only describes safety measures and no liability may arise from the use or application of the product described herein. This information is given in good faith and based on our current knowledge of the product.