SAFETY DATA SHEET

I. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

IDEAS ADDITIVES LLC
625 SOUTH MAIN STREET
LOMBARD, ILLINOIS 60148

I. PHYSICAL DATA

PRODUCT NAME: AJM-AQ-CI
CHEMICAL FAMILY: Water Soluble Corrosion Inhibitor
FORMULA: Trade Secret

INFORMATION PHONE: 1-800-274-2010
EMERGENCY PHONE: 1-800-424-9300

II. HAZARDOUS IDENTIFICATION

NFPA RATING (SCALE 0-4) Health = 2 Flammability = 1 Reactivity = 0

EMERGENCY OVERVIEW: Do not ingest. Do not inhale dust. Use adequate ventilation and wash after handling.

GHS CLASSIFICATION:

Health	**Environmental**
Acute Toxicity: Cat. 4 Eye Irritation: Cat. 2 Skin Irritation: Cat. 2	Acute Aquatic Toxicity: Not established Chronic Aquatic Toxicity: Not established

GHS LABEL ELEMENTS:
Symbol(s):



Signal Word

Warning

Hazard Statements

This material is hazardous according to OSHA definition. May cause irritation to skin, eyes, and respiratory tract. This material is combustible.

Precautionary Statements

Wear protective gloves/protective clothing/eye protection/face protection IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or you feel unwell: Call a doctor/physician.

III. COMPOSITION/ INFORMATION ON INGREDIENTS

COMPONENT: Trade Secret
CAS NUMBER:

102-71-6	Triethanolamine	20-40%
7732-18-5	Water	20-40%
141-43-5	Monoethanolamine	10-30%
Confidential	Proprietary Ingredient	10-30%

IV. FIRST AID MEASURES

EYE CONTACT: Wash eyes with water for at least 30 minutes. If irritation persists, get medical attention.
SKIN CONTACT: Wash affected area with soap and water for approximately 30 minutes
INHALATION: Remove exposed person to fresh air.
INGESTION: Do not induce vomiting. Get immediate medical attention.

V. FIRE FIGHTING MEASURES

EXTINGUISHING MEDIA: Use carbon dioxide, foam, sand or sodium bicarbonate.
SPECIAL FIRE FIGHTING PROCEDURES: Avoid breathing vapors or dusts. Use self-contained breathing apparatus with full face piece and protective clothing.
UNUSUAL FIRE AND EXPLOSIVE

HAZARDS: None known.

VI. ACCIDENTAL RELEASE MEASURES

IF MATERIAL IS RELEASED OR SPILLED: Contain spill and transfer to suitable containers.

Stop leak if you can do it without risk.
Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. If material is too viscous for pumping scrape it up with shovels into suitable containers for recycle or disposal.
Large Spills: Dike far ahead of spill for later recovery and disposal. Prevent entry into waterways, sewers, basements or confined areas.

VII. HANDLING AND STORAGE

STORAGE: Observe all federal, state and local regulations when storing or disposing of this substance. Keep away from incompatible substances.

Use good engineering practices to establish good ventilation. Avoid contact with skin, eyes and clothing. Wear suitable protective equipment to protect from contact. Avoid breathing mist or vapors. Wash skin thoroughly after handling. Store inn closed containers away from extreme heat, sparks, open flame or oxidizing materials.

VIII. EXPOSURE CONTROLS/ PERSONAL PROTECTION

SKIN PROTECTION:	Wear appropriate protective gloves to prevent direct contact.
EYE PROTECTION:	Wear safety goggles to prevent eye contact with substance.
OTHER PROTECTIVE EQUIPMENT:	Impervious apron if needed to avoid prolonged or repeated skin contact.
ENGINEERING CONTROLS:	Good general ventilation and/or local exhaust ventilation at the point of generation is recommended.

PERSONAL PROTECTIVE EQUIPMENT (Pictograms):



IX. PHYSICAL AND CHEMICAL PROPERTIES

BOILING POINT: 320°F
VAPOR PRESSURE: 0.05 mmHg@ 20°C

SOLUBILITY IN WATER: Soluble
SPECIFIC GRAVITY: >1.0 @ 25ºC
APPEARANCE: Colorless to Yellow liquid
ODOR: Slight Ammonia Odor
FLASH POINT: N/A contains water
FLAMMABLE LIMITS **LOWER:** N/A **UPPER:** N/A

X. STABILITY AND REACTIVITY

STABILITY:	This product is stable at ambient temperatures.
CONDITIONS TO AVOID:	Extreme heat or cold.
INCOMPATIBILITY:	Avoid contact with strong acids and strong oxidizers.
HAZARDOUS DECOMPOSITION PRODUCTS:	Exposure to high temperatures, such as those associated with fires causes product decomposition, resulting in the release of carbon monoxide, carbon dioxide, and other decomposition products.
HAZARDOUS POLYMERIZATION:	Will not occur.

XI. TOXICOLOGY INFORMATION

POTENTIAL ACUTE HEALTH EFFECTS:
Eye: May cause severe irritation with possible corrosion to eyes.
Skin: Skin irritation will occur with redness.

POTENTIAL CHRONIC HEALTH EFFECTS:
Chronic effects: Excessive exposure may cause severe irritation of the nose, throat, and lungs. Material can also cause liver and kidney damage and/or weakness.
Target organs: No known significant effects or critical hazards.
Carcinogenicity: No known significant effects or critical hazards.
Mutagenicity: No known significant effects or critical hazards.
Teratogenicity: No known significant effects or critical hazards.
Fertility effects: No known significant effects or critical hazards.
Developmental effects: No known significant effects or critical hazards.

XII. ECOLOGICAL INFORMATION

No information available.

XIII. DISPOSAL INFORMATION

WASTE DISPOSAL: Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state and local regulations.

XIV. TRANSPORTATION INFORMATION

DOT CLASSIFICATION

Proper Shipping Name: Ethanolamine Solution
Class: 8 (corrosive)
UN Number: 2491
PG: III



XV. REGULATORY INFORMATION

STATUS:
US (TSCA): Y
CANADA (DSL): Y
EUROPE (EINECS/ELINCS): Y
AUSTRALIA (AICS): Y
CHINA (IESCS): Y
JAPAN (ENCS): Y
SOUTH KOREA (KECI): Y

Y= All ingredients are on the inventory or exempt from listing
N= One or more non-exempt ingredients are not on the inventory

SECTION 302 EXTREMELY HAZARDOUS CHEMICALS:

CAS#	Component	% by Wt.
102-71-6	Triethanolamine	20-40%
141-43-5	Monoethanolamine	10-30%

SECTION 313 TOXIC CHEMICALS:

Component	CAS#	% by Wt.
None		

SARA TITLE III:
ACUTE (IMMEDIATE HEALTH HAZARD): Yes

CHRONIC (DELAYED HEALTH HAZARD): Yes
SUDDEN PRESSURE RELEASE: No
FIRE HAZARD: No
REACTIVE HAZARD: No

CERCLA (Comprehensive Environment Response, Compensation and Liability Act):

There is no calculable reportable quantity (RQ) for this product.

CLEAN WATER ACT: Under section 311 (b) (4) of this act, contamination of surface waters by petroleum products must be reported immediately to the National Response Center.

XVI. OTHER INFORMATION

TSCA (TOXIC SUBSTANCE CONTROL ACT) STATUS:
All components of this formula are included in the TSCA inventory. This product does not contain nor was manufactured with Class 1 or 11 ozone depleting chemicals, Section 611 of the Clean Air Act.

NFPA

HEALTH HAZARD
4-Deadly
3- Extreme Danger
2- Hazardous
1-Slightly Hazardous chemical change
0-Normal Material heated

FIRE HAZARD
Flash Points
4-Below 73°F
3-Below 100°F
2-Above 100°F, Not exceeding 200°F
1-Above 200°F
0-Will not burn

REACTIVITY
4-May detonate
3-Shock and heat may detonate
2-Violent
1-Unstable if
0-Stable

Table 3.8 Acute Toxicity

Acute toxicity	Cat. 1	Cat. 2	Cat. 3	Cat. 4	Category 5
Oral (mg/kg)	≤ 5	> 5 ≤ 50	> 50 ≤ 300	> 300 ≤ 2000	Criteria: ▪ Anticipated oral LD50 between 2000 and 5000 mg/kg; ▪ Indication of significant effect in humans;* ▪ Any mortality at class 4;* ▪ Significant clinical signs at class 4;* ▪ Indications from other studies.* *If assignment to more hazardous class is
Dermal (mg/kg)	≤ 50	> 50 ≤ 200	> 200 ≤ 1000	> 1000 ≤ 2000	
Gases (ppm)	≤ 100	> 100 ≤ 500	> 500 ≤ 2500	> 2500 ≤ 5000	
Vapors (mg/l)	≤ 0.5	> 0.5 ≤ 2.0	> 2.0 ≤ 10	> 10 ≤ 20	
Dust & mists (mg/l)	≤ 0.05	> 0.05 ≤ 0.5	> 0.5 ≤ 1.0	> 1.0 ≤ 5	

					not warranted.

Figure 4.11

ACUTE ORAL TOXICITY - Annex 1					
	Category 1	**Category 2**	**Category 3**	**Category 4**	**Category 5**
LD_{50}	£ 5 mg/kg	> 5 < 50 mg/kg	³ 50 < 300 mg/kg	³ 300 < 2000 mg/kg	³ 2000 < 5000 mg/kg
Pictogram					No symbol
Signal word	Danger	Danger	Danger	Warning	Warning
Hazard statement	Fatal if swallowed	Fatal if swallowed	Toxic if swallowed	Harmful if swallowed	May be harmful if swallowed

Table 3.9 Skin Corrosion/Irritation

Skin Corrosion Category 1			**Skin Irritation Category 2**	**Mild Skin Irritation Category 3**
Destruction of dermal tissue: visible necrosis in at least one animal			Reversible adverse effects in dermal tissue Draize score: ≥ 2.3 < 4.0 or persistent inflammation	Reversible adverse effects in dermal tissue Draize score: ≥ 1.5 < 2.3
Subcategory 1A Exposure < 3 min. Observation < 1hr,	Subcategory 1B Exposure < 1hr. Observation < 14 days	Subcategory 1C Exposure < 4 hrs. Observation < 14 days		

Table 3.10 Eye Effects

Category 1 Serious eye damage	**Category 2 Eye Irritation**	
Irreversible damage 21 days after exposure Draize score: Corneal opacity ≥ 3 Iritis > 1.5	Reversible adverse effects on cornea, iris, conjunctiva Draize score: Corneal opacity ≥ 1 Iritis > 1 Redness ≥ 2 Chemosis ≥ 2	
	Irritant Subcategory 2A Reversible in 21 days	**Mild Irritant** Subcategory 2B Reversible in 7 days

Figure 4.9

GHS Pictograms and Hazard Classes		
		

▪ Oxidizers	▪ Flammables ▪ Self Reactives ▪ Pyrophorics ▪ Self-Heating ▪ Emits Flammable Gas ▪ Organic Peroxides	▪ Explosives ▪ Self Reactives ▪ Organic Peroxides
		
▪ Acute toxicity (severe)	▪ Corrosives	▪ Gases Under Pressure
		
▪ Carcinogen ▪ Respiratory Sensitizer ▪ Reproductive Toxicity ▪ Target Organ Toxicity ▪ Mutagenicity ▪ Aspiration Toxicity	▪ Environmental Toxicity	▪ Irritant ▪ Dermal Sensitizer ▪ Acute toxicity (harmful) ▪ Narcotic Effects ▪ Respiratory Tract ▪ Irritation

Figure 4.10

Transport "Pictograms"		
		
Flammable Liquid Flammable Gas Flammable Aerosol	**Flammable solid Self-Reactive Substances**	**Pyrophorics (Spontaneously Combustible) Self- Heating Substances**
		
Substances, which in contact with water, emit	**Oxidizing Gases Oxidizing Liquids Oxidizing Solids**	**Explosive Divisions 1.1, 1.2, 1.3**

flammable gases (Dangerous When Wet)		
		
Explosive Division 1.4	**Explosive Division 1.5**	**Explosive Division 1.6**
		
Compressed Gases	**Acute Toxicity (Poison): Oral, Dermal, Inhalation**	**Corrosive**
		
Marine Pollutant	**Organic Peroxides**	

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IDEAS ADDITIVES LLC
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