

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE
USA: 1-423-780-2970)
FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: 1-800-424-9300 (OUTSIDE
USA: 1-703-527-3887)
FOR ALL MSDS QUESTIONS & REQUESTS, CALL: 1-800-511-MSDS (OUTSIDE
USA: 1-423-780-2347)

PRODUCT NAME: **APPLIED BIOCHEMISTS BLACK ALGAETRINE**

1. PRODUCT AND COMPANY IDENTIFICATION

Supplier

**Applied Biochemists
1400 Bluegrass Lakes Parkway ,
Alpharetta, GA, 30004
USA**

**Telephone: +17705215999
Telefax: +17705215999
Web: www.poolspacare.com**

REVISION DATE: 08/04/2011
SUPERCEDES: 11/02/2010
MSDS Number: 000000012485
SYNONYMS:
CHEMICAL FAMILY: None
DESCRIPTION / USE: None established
FORMULA: None established

Manufacturer

**Advantis Technologies
1400 Bluegrass Lakes Parkway
Alpharetta, GA 30004
United States of America**

2. HAZARDS IDENTIFICATION

OSHA Hazard
Classification:

Corrosive

Routes of Entry: Eyes Skin Inhalation Ingestion
Medical Conditions Aggravated: Asthma, Respiratory disorders

Human Threshold Response Data

Odor Threshold Not established for product.

Irritation Threshold Not established for product.

Hazardous Materials Identification System / National Fire Protection Association Classifications

<u>Hazard Ratings :</u>	<u>Health</u>	<u>Flammability</u>	<u>Physical / Instability</u>	<u>PPI / Special hazard.</u>
HMIS	3	0	0	
NFPA	3	0	0	

Immediate (Acute) Health Effects

Inhalation Toxicity: May cause respiratory irritation.

Skin Toxicity: Corrosive to skin May be harmful if absorbed through skin.

Eye Toxicity: Corrosive. Burns can occur following exposure. Direct contact may cause impairment of vision, corneal damage and/or blindness. Rinsing of the eye should take place immediately.

Ingestion Toxicity: May be harmful if swallowed. Irritation and/or burns can occur to the entire gastrointestinal tract, including the stomach and intestines, characterized by nausea, vomiting, diarrhea, abdominal pain, bleeding, and/or tissue ulceration or perforation.

Acute Target Organ Toxicity: This product is corrosive to all tissues contacted. Eyes, Skin, Respiratory Tract, Gastrointestinal tract

Prolonged (Chronic) Health Effects

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

Reproductive and Developmental Toxicity: No reproductive or developmental risk to humans is expected from exposure to this product.

Inhalation: There are no known or reported effects from chronic exposure.

Skin Contact: There are no known or reported effects from chronic exposure except for effects (if any) similar to those experienced from acute exposure.

Ingestion: There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.

Sensitization: Not expected to be a skin sensitizer.

Chronic Target Organ Toxicity: None known

Supplemental Health Hazard Information : No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

<u>CAS OR CHEMICAL NAME</u>	<u>CAS #</u>	<u>% RANGE</u>
Triethanolamine	102-71-6	
Ethanolamine	141-43-5	
QUATERNARY AMMONIUM COMPOUNDS, BENZYL-C12-16-ALKY	68424-85-1	
BASIC COPPER CARBONATE	12069-69-1	
ALCOHOL DENAT.	64-17-5	

4. FIRST AID MEASURES

General Advice:	Call a poison control center or doctor for treatment advice. For 24-hour emergency medical assistance, call Arch Chemical Emergency Action Network at 1-800-654-6911. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
Inhalation:	IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
Skin Contact:	IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
Eye Contact:	IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
Ingestion:	IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA): The product is not flammable., Not combustible., The substance or mixture is not classified as pyrophoric., Not explosive

Flammable Properties

Fire / Explosion Hazards: Will not burn
Extinguishing Media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire Fighting Instructions: Use water spray to cool unopened containers. In case of fire, use normal fire-fighting equipment and the personal protective equipment recommended in Section 8 to include a NIOSH approved self-contained breathing apparatus.
Hazardous Combustion Products: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal Protection for Emergency Situations: Additional protective clothing must be worn to prevent personal contact with this material. Those items include but are not limited to boots, impervious gloves, hard hat, splash-proof goggles, impervious clothing, i.e., chemically impermeable suit, self-contained breathing apparatus.

Spill Mitigation Procedures

Air Release: Keep people away from and upwind of spill/leak.
Water Release: solubleIf the product contaminates rivers and lakes or drains inform respective authorities.
Land Release: Contain and/or absorb spill with inert material (e.g. sand, vermiculite). Do not use clay to absorb spill. Avoid release to the environment.
Additional Spill Information : Prevent further leakage or spillage if safe to do so. Use personal protective equipment as required. Evacuate personnel to safe areas.

7. HANDLING AND STORAGE

Handling: Do not take internally. Avoid contact with skin, eyes and clothing. If in eyes or on skin, rinse well with water. Avoid breathing vapors, mist or gas.

Storage: Store in a cool, dry and well ventilated place. Isolate from incompatible materials. Do not freeze.

Incompatible Materials for Storage: Refer to Section 10, "Incompatible Materials."

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation: Use local exhaust ventilation to maintain levels below exposure limits.

Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible., A NIOSH approved air purifying respirator with organic vapor/N95 cartridges. Air purifying respirators should not be used in oxygen deficient or IDLH atmospheres or if exposure concentrations exceed ten (10) times the published limit. A NIOSH approved full-face respirator as a minimum.

Skin Protection : Avoid contact with skin. Impervious gloves Boots Apron A full impervious suit is recommended if exposure is possible to a large portion of the body.

Eye Protection: Chemical resistant goggles must be worn. Face-shield

Protective Clothing Type: Impervious, Neoprene, Butyl rubber

General Protective Measures: Ensure that eyewash stations and safety showers are close to the workstation location.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
Triethanolamine	102-71-6	ACGIH	5 mg/m ³ TWA
Ethanolamine	141-43-5	ACGIH	3 ppm TWA
Ethanolamine	141-43-5	ACGIH	6 ppm STEL
Ethanolamine	141-43-5	OSHA Z1	3 ppm TWA 6 mg/m ³ TWA
Ethanolamine	141-43-5	NIOSH-IDLH	30 ppm

BASIC COPPER CARBONATE	12069-69-1	ACGIH	1 mg/m3 Calculated as Cu TWA dusts and mists
BASIC COPPER CARBONATE	12069-69-1	OSHA Z1	1 mg/m3 TWA dusts and mists
BASIC COPPER CARBONATE	12069-69-1	NIOSH-IDLH	100 mg/m3
ALCOHOL DENAT.	64-17-5	ACGIH	1,000 ppm TWA
ALCOHOL DENAT.	64-17-5	OSHA Z1	1,000 ppm TWA 1,900 mg/m3 TWA
ALCOHOL DENAT.	64-17-5	NIOSH-IDLH	3,300 ppm

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	No data.
Color:	dark blue
Odor:	No data.
Molecular Weight:	None established
Specific Gravity :	1.049
	20 °C
pH :	9.5 - 9.7
Boiling Point:	no data available
Freezing Point:	not applicable
Melting Point:	not applicable
Density:	no data available
Bulk Density:	no data available
Vapor Pressure:	no data available
Vapor Density:	> 1
Viscosity:	34.5 mPas 20 °C no data available
Solubility in Water:	soluble
Partition coefficient n- octanol/water:	no data available
Evaporation Rate:	no data available
Oxidizing:	None established

Volatiles, % by vol.: no data available
 VOC Content no data available
 HAP Content Not applicable

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary: Stable under normal conditions.
 Conditions to Avoid: Heat.
 Chemical Incompatibility: Strong acids and oxidizing agents, Clay
 Hazardous Decomposition Products: Hydrogen chloride gas, Carbon oxides, nitrogen oxides (NOx)
 Decomposition Temperature: No data

11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

Triethanolamine	LD50 = 7,390 mg/kg	Rat
Ethanolamine	LD50 = 1,700 mg/kg	rat
QUATERNARY AMMONIUM COMPOUNDS, BENZYL- C12-16-ALKY	LD50 = 426 mg/kg	Rat
BASIC COPPER CARBONATE	LD50 = 1,350 mg/kg	rat
ALCOHOL DENAT.	LD50 = 7,060 mg/kg	Rat

Component Animal Toxicology

Dermal LD50 value:

Triethanolamine	LD50 > 2,000 mg/kg	Rabbit
Ethanolamine	LD50 Approximately 1,000 mg/kg	rabbit
QUATERNARY AMMONIUM COMPOUNDS, BENZYL- C12-16-ALKY	No data	
BASIC COPPER CARBONATE	no data available	
ALCOHOL DENAT.	LD50 Believed to be > 2,000 mg/kg	Rabbit

Component Animal Toxicology

Inhalation LC50 value:

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Triethanolamine A saturated vapor concentration for 8 hours (rats) did not produce any deaths.
Ethanolamine LC50 1 h > 4.8 MG/L mouse
Ethanolamine LC50 4 h > 970 ppm mouse
QUATERNARY AMMONIUM No data
COMPOUNDS, BENZYL-C12-16-ALKY
BASIC COPPER CARBONATE no data available
ALCOHOL DENAT. Inhalation LC50 10 h = 20,000 ppm Rat

Product Animal Toxicity

Oral LD50 value: 1,030 mg/kg Rat

Dermal LD50 value: 1,872 mg/kg Rat

Inhalation LC50 value: No data.

Skin Irritation: Corrosive to skin
Eye Irritation: Corrosive to eyes
Skin Sensitization: Not believed to be sensitising to skin.

Subchronic / Chronic Toxicity: There are no known or reported effects from repeated exposure except those secondary to burns.

Reproductive and Developmental Toxicity: Not known or reported to cause reproductive or developmental toxicity.

Triethanolamine This product has been tested and was shown not to produce any adverse effects on reproductive function or fetal development when administered to laboratory animals.

Ethanolamine This chemical has been tested in laboratory animals and no evidence of teratogenicity, embryotoxicity or fetotoxicity was seen.

ALCOHOL DENAT. This chemical has been tested in laboratory animals and developmental and/or teratogenic effects were seen following ingestion.

Mutagenicity: Not known or reported to be mutagenic.
Triethanolamine This chemical has been shown to be non-mutagenic based on a battery of assays.
Ethanolamine This chemical has been tested in a battery of mutagenicity/genotoxicity assays and the results were

ALCOHOL DENAT. negative.
 This product has been tested for mutagenicity. Tests revealed both positive and negative results. Based on the weight of evidence, we judge this product NOT to be a mutagenic hazard.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA.

Triethanolamine The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans.

Ethanolamine This product is not known or reported to be carcinogenic by any reference source including IARC, OSHA, NTP or EPA. Chemicals of similar structure have been shown not to cause cancer in laboratory animals.

ALCOHOL DENAT. The International Agency for Research on Cancer (IARC) has classified this product or a component of this product as a Group 3 substance, Unclassifiable as to Its Carcinogenicity to Humans. The FDA determined that this product is not carcinogenic in laboratory animals.

12. ECOLOGICAL INFORMATION

Overview: Very toxic to aquatic organisms.

Ecological Toxicity Values for: **Triethanolamine**

- Fathead minnow (Pimephales promelas), - (measured, flow-through) 96 h LC50 = 11,800 mg/l
- Daphnia magna, - (nominal, static). 24 h EC50= 1,850 mg/l
- Common shrimp (Crangon crangon) - (nominal, renewal). 48 h LC50> 100 mg/l
- Green algae (Scenedesmus subspicatus) - (nominal, static). 48 h EC50 = 750 mg/l

Ecological Toxicity Values for: **Ethanolamine**

- Rainbow trout (Oncorhynchus mykiss) - (nominal, static). 96 h LC50 = 150 mg/l
- Mosquito fish - (nominal, static). 96 h LC50 = 337.5 mg/l
- Bluegill - (nominal, static). 96 h LC50 = 329.16 mg/l

Fathead minnow (Pimephales promelas), Goldfish	- (measured, flow-through) 96 h LC50 = 2,070 mg/l
Daphnia magna (Water flea)	- (measured, static) 96 h LC50 = 170 mg/l
Crangon crangon (shrimp)	- (nominal, static). 24 h LC50= 140 mg/l
Brine shrimp	- (nominal, renewal). 48 h LC50> 100 mg/l
Daphnia magna (Water flea)	- 48 h LC50= 7,100 mg/l
	- 48 h EC50= 65 mg/l

Ecological Toxicity Values for: ALCOHOL DENAT.

Fathead minnow (Pimephales promelas), Rainbow trout (Salmo gairdneri), Brine shrimp	- (nominal, static). 96 h LC50 = 14,700 mg/l
Daphnia pulex	- (nominal, static). 96 h LC50 = 13,000 mg/l
Daphnia magna,	- (nominal, static). 48 h LC50= 25.5 mg/l
Daphnia magna,	- (nominal, static). 18 h LC50= 12,100 mg/l
Ceriodaphnia dubia	- (nominal, static). 48 h EC50> 10,000 mg/l
	- (nominal, static). 48 h LC50= 9,248 mg/l
	- (nominal, static). 48 h LC50= 8,808 mg/l

13. DISPOSAL CONSIDERATIONS

CARE MUST BE TAKEN TO PREVENT ENVIRONMENTAL CONTAMINATION FROM THE USE OF THE MATERIAL. THE USER OF THE MATERIAL HAS THE RESPONSIBILITY TO DISPOSE OF UNUSED MATERIAL, RESIDUES AND CONTAINERS IN COMPLIANCE WITH ALL RELEVANT LOCAL, STATE AND FEDERAL LAWS AND REGULATIONS REGARDING TREATMENT, STORAGE AND DISPOSAL FOR HAZARDOUS AND NONHAZARDOUS WASTES.

Waste Disposal Summary :

If this product becomes a waste, it DOES NOT meet the criteria of a hazardous waste as defined under 40 CFR 261, in that it does not exhibit the characteristics of hazardous waste of Subpart C, nor is it listed as a hazardous waste under Subpart D. As a nonhazardous liquid waste, it should be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : not applicable

14. TRANSPORT INFORMATION

Land (US DOT): UN1760 CORROSIVE LIQUID, N.O.S. (COPPER TRIETHANOLAMINE COMPLEX) 8 III

Water (IMDG): UN1760 CORROSIVE LIQUID, N.O.S., (COPPER TRIETHANOLAMINE COMPLEX) 8 III Marine Pollutant: No

Air (IATA): UN1760 CORROSIVE LIQUID, N.O.S., (COPPER TRIETHANOLAMINE COMPLEX) 8 III

Emergency Response Guide Number: ERG # 154

Transportation Notes: Under specific circumstances, this product can ship under two transport exceptions, Limited Quantity or Consumer Commodity. See Bill of Lading for proper shipping description.

EMS: F-A, S-B

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): This is an EPA registered pesticide.
EPA Pesticide Registration Number: None established

FIFRA Listing of Pesticide Chemicals (40 CFR 180): This product is regulated under the Federal Insecticide, Fungicide and Rodenticide Act. It must be used for purposes consistent with its labeling.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):

Emergency Planning & Community Right to Know (40 CFR 355, App. A):

Extremely Hazardous Substance Section 302 - Threshold Planning Quantity:

ZUS_SAR302	TPQ (threshold planning quantity)	None established
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Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA	Reportable quantity	Diethanolamine Value: 100lbs Formaldehyde
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Value: 100lbs
Sodium hydroxide
Value: 1,000lbs

ZUS_SAR302 Reportable quantity

Formaldehyde
Value: 100lbs

Supplier Notification Requirements (40 CFR 372.45), 313 Reportable Components

ZUS_SAR313 De minimis concentration

Diethanolamine
Value: < 1% by weight
Formaldehyde
Value: < 0.1% by weight

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC

US. EPA Hazardous Organic NESHAP (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table 1)

07 1999

Group I

DIETHANOLAMINE (2,2'-IMINODIETHANOL)

US. EPA Hazardous Organic NESHAP (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table 1)

07 1999

Group I

ETHANOLAMINE

US. EPA Hazardous Organic NESHAP (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table 1)

07 1999

Group I

FORMALDEHYDE

US. EPA Hazardous Organic NESHAP (HON) Synthetic Organic Chemicals (40 CFR 63.100-.106, Table 1)

07 1999

Group I

TRIETHANOLAMINE

Clean Air Act VOC Section 111:

CAA 111

US. EPA Clean Air Act (CAA) Section 111 SOCM I Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)

01 1996

ETHANOLAMINE

US. EPA Clean Air Act (CAA) Section 111 SOCM I Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)

01 1996

FORMALDEHYDE

US. EPA Clean Air Act (CAA) Section 111 SOCM I Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)

01 1996

SODIUM BENZOATE

US. EPA Clean Air Act (CAA) Section 111 SOCM I Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)

01 1996

ETHYL ALCOHOL

US. EPA Clean Air Act (CAA) Section 111 SOCM I Intermediate or Final Volatile Organic Compounds (40 CFR 60.489)

01 1996

SORBIC ACID

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP None established

ZUS_CAAHRP None established

CAA AP

US. EPA Hazardous Organic NESHP (HON) Hazardous Air Pollutants (40 CFR 63.100-.106, Table 2)

04 1999

DIETHANOLAMINE (2,2'-IMINODIETHANOL)

US. EPA Hazardous Organic NESHP (HON) Hazardous Air Pollutants (40 CFR 63.100-.106, Table 2)

04 1999

FORMALDEHYDE

US. EPA Hazardous Organic NESHP (HON) Hazardous Air Pollutants (40 CFR 63.100-.106, Table 2)

04 1999
FORMALDEHYDE

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS #	COMPONENT NAME
141-43-5	Ethanolamine
102-71-6	Triethanolamine
64-17-5	Ethanol

ZUSPA_RTK

Pennsylvania: Hazardous substance list
1989-08-11
ETHANOL, 2-AMINO-

Pennsylvania: Hazardous substance list
1989-08-11
ETHANOL, 2,2',2''-NITRILOTRIS-

Pennsylvania: Hazardous substance list
1990-01-01
ETHANOL
hazardous substance

Pennsylvania: Hazardous substance list
1990-01-01
DENATURED ALCOHOL
hazardous substance

Pennsylvania: Hazardous substance list
1989-08-11
ETHANOL

New Jersey:

CAS #	COMPONENT NAME
141-43-5	Ethanolamine
102-71-6	Triethanolamine
64-17-5	Ethanol

ZUSNJ_RTK

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

ETHANOLAMINE MONOETHANOLAMINE ETHANOL, 2-AMINO-
Special Health Hazard - Corrosive

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

TRIETHANOLAMINE ETHANOL, 2,2',2"-NITRILOTRIS-

New Jersey Right to Know Hazardous Substance List (RTK-HSL)

2007-03-01

ETHYL ALCOHOL ALCOHOL METHYLCARBINOL ETHANOL
Special Health Hazard - Carcinogen, Special Health Hazard - Flammable - Third Degree,
Special Health Hazard - Mutagen, Special Health Hazard - Teratogen

Massachusetts:

CAS #	COMPONENT NAME
141-43-5	Ethanolamine
102-71-6	Triethanolamine
64-17-5	Ethanol

ZUSMA_RTK

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

ETHANOLAMINE 2-AMINOETHANOL

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

TRIETHANOLAMINE

Massachusetts Right to Know List of Chemicals and Hazard Classifications

1993-04-24

ETHYL ALCOHOL DENATURED ALCOHOL ETHANOL
Teratogen. Sufficient evidence of teratogenic risk in humans.

California Proposition 65:

CAS #	COMPONENT NAME
50-00-0	FORMALDEHYDE

ZUSCA_P65

California Proposition 65. Safe drinking water and toxic enforcement act.
No Significant Risk Levels 40 ug/day
Formaldehyde (gas)
Carcinogen

California Proposition 65. Safe drinking water and toxic enforcement act.
No Significant Risk Levels 40 micrograms per day
Formaldehyde (gas)

California Proposition 65. Safe drinking water and toxic enforcement act.
Formaldehyde
Carcinogen

WHMIS Hazard Classification:

Ingredient Disclosure List (WHMIS)
2007-08-24
Threshold limits: 1 Weight percent
1170
Monoethanolamine

Ingredient Disclosure List (WHMIS)
2007-08-24
Threshold limits: 1 Weight percent
1663
Triethanolamine

Ingredient Disclosure List (WHMIS)
2007-08-24
Threshold limits: 0.1 Weight percent
805
Ethanol

Ingredient Disclosure List (WHMIS)
2007-08-24
Threshold limits: 1 Weight percent
985
Copper(II) carbonate hydroxide

16. OTHER INFORMATION

MSDS REVISION STATUS :
SECTIONS REVISED: 3
Major References : Available upon request.

THIS MATERIAL SAFETY DATA SHEET (MSDS) HAS BEEN PREPARED IN COMPLIANCE WITH THE FEDERAL OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200. THE INFORMATION IN THIS MSDS SHOULD BE PROVIDED TO ALL WHO WILL USE, HANDLE, STORE, TRANSPORT, OR OTHERWISE BE EXPOSED TO THIS PRODUCT. THIS INFORMATION HAS BEEN PREPARED FOR THE GUIDANCE OF PLANT ENGINEERING, OPERATIONS AND MANAGEMENT AND FOR PERSONS WORKING WITH OR HANDLING THIS PRODUCT. ARCH CHEMICALS BELIEVES THIS INFORMATION TO BE RELIABLE AND UP TO DATE AS OF THE DATE OF PUBLICATION BUT, MAKES NO WARRANTY THAT IT IS. ADDITIONALLY, IF THIS MSDS IS MORE THAN THREE YEARS OLD, YOU SHOULD CONTACT ARCH CHEMICALS MSDS CONTROL AT THE PHONE NUMBER ON THE FRONT PAGE TO MAKE CERTAIN THAT THIS DOCUMENT IS CURRENT. .