FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: 1-800-654-6911 (OUTSIDE

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: 1-800-424-9300 (OUTSIDE USA: 1-703-527-3887)

FOR ALL SDS QUESTIONS & REQUESTS, CALL: 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

USA: 1-423-780-2970)

## PRODUCT NAME: APPLIED BIOCHEMISTS TRIPLE ACTION TABS

## SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Advantis Technologies 1200 Bluegrass Lakes Parkway

Alpharetta, GA 30004

United States of America (USA)

REVISION DATE: 08/03/2016 SUPERCEDES: 02/12/2016

MSDS Number: 000000024528

SYNONYMS: none CHEMICAL FAMILY: None

DESCRIPTION / USE Water treatment chemical

FORMULA: None established

## **SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification** 

Corrosive to metals : Category 1

Acute toxicity (Oral) : Category 4

Skin irritation : Category 2

Serious eye damage : Category 1

Specific target organ toxicity -

single exposure

Category 3 (Respiratory system)

**GHS** label elements

Hazard pictograms :





Signal word : Danger

Hazard statements : H290 May be corrosive to metals.

H302 Harmful if swallowed. H315 Causes skin irritation.

APPLIED BIOCHEMISTS TRIPLE ACTION TABS

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H318 Causes serious eye damage. H335 May cause respiratory irritation.

Precautionary statements

## Prevention:

P234 Keep only in original container.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of soap and water. P304 + P340 + P312 IF INHALED: Remove person to fresh air

and keep comfortable for breathing. Call a POISON

CENTER/doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON

CENTER/doctor.

P332 + P313 If skin irritation occurs: Get medical advice/ attention.

P362 Take off contaminated clothing and wash before reuse.

P390 Absorb spillage to prevent material damage.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

P406 Store in corrosive resistant stainless steel container with a resistant inner liner.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

#### Other hazards

None known.

## SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

| CAS OR CHEMICAL NAME TRICHLORO-S-TRIAZINETRIONE | <u>CAS #</u><br>87-90-1 | <u>% RANGE</u><br>93 - 99 |  |
|---|-------------------------|---------------------------|--|
| Aluminum Sulfate                                | 17927-65-0              | 2 - 8                     |  |
| Copper Sulfate pentahydrate                     | 7758-99-8               | 1 - 3                     |  |

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## **SECTION 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.

Notes to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

#### SECTION 5. FIREFIGHTING MEASURES

Flammability Summary (OSHA): Product is not known to be flammable, combustible or pyrophoric.,

NFPA Oxidizer Class: Meets the criteria of an NFPA Class 1

Oxidizer

Flammable Properties

Fire / Explosion Hazards: During a fire, irritating and highly toxic gases may be generated by

thermal decomposition or combustion. Closed containers may explode (due to the build up of steam pressure) when exposed to

extreme heat.

Extinguishing Media: Water only.

Fire Fighting Instructions: Use water to cool containers exposed to fire. On small fires, use

water spray or fog. On large fires, use heavy deluge or fog streams. Flooding amounts of water may be required before extinguishment can be accomplished. Do not use dry extinguishers containing

ammonium compounds.

## **SECTION 6. ACCIDENTAL RELEASE MEASURES**

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Personal Protection for Emergency

Situations:

Response to a large quantity spill (100 pounds or greater) or when dusting or decomposition gas exposure could occur requires the use of a positive pressure full face supplied air repirator or self contained breathing apparatus (SCBA), chemical resistant gloves, coveralls and boots. In case of fire, this personal protective equipment should be used in addition to normal fire fighter equipment. Compatible materials for response to this material are: neoprene. Protection concerns must also address the following: If this material becomes damp/wet or contaminated in a container, the formation of nitrogen trichloride gas may occur and an explosive condition may exist.

**Spill Mitigation Procedures** 

Air Release: Vapors may be suppressed by the use of water fog.

Water Release: This material is heavier than water. This material is soluble in

water. Stop water flow or divert water flow around spill if possible and

safe to do so. Begin monitoring for available chlorine and pH

immediately.

Do not contaminate spill material with any organic materials, Land Release:

ammonia, ammonium salts or urea. Clean up all spill material with clean, dry dedicated equipment and place in a clean dry container.

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-Additional Spill Information:

> 800-424-9300 REPORTABLE QUANTITY: Not Applicable (Per 40 CFR 302.4) Hazardous concentrations in air may be found in local spill area and immediately downwind. If spill material is still dry, do not put water directly on this product as a gas evolution may occur. If material is wet, contact 1-800-654-6911 for proper stabilization procedures. Dispose of spill residues per guidelines under Section 13, Disposal Consideration. This material may be neutralized for disposal; you are requested to contact Arch Chemicals at 1-800-

654-6911 before beginning any such procedure.

## **SECTION 7. HANDLING AND STORAGE**

Handling: Do not take internally. Avoid contact with skin, eyes and clothing.

Upon contact with skin or eyes, wash off with water. Avoid breathing

dust, mist, vapor or gas.

Storage: Store in a cool dry ventilated location, away from sources of ignition

or other incompatible conditions and chemicals. Keep container(s)

closed. Avoid creating dusts.

Shelf Life Limitations: Indefinite. Available chlorine loss can be as little as 0.1% per year

at ambient temperatures.

Organic materials, Reducing agents, nitrogen containing materials, Incompatible Materials for Storage:

Oxidizing, Acids, Bases, (Incompatible materials for packaging:

paper, cardboard)

Do Not Store At temperatures

Above:

140 °C

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## SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ventilation: Local exhaust ventilation or other engineering controls are normally required

when handling or using this product to keep airborne exposures below the

TLV, PEL or other recommended exposure limit.

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 full-face air purifying respirator equipped with combination chlorine/P100 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.

Skin Protection: Wear impervious gloves to avoid skin contact. A full impervious suit is

recommended if exposure is possible to a large portion of the body.

Eye Protection: Use chemical goggles.

Protective Clothing Type: Nitrile, Natural Rubber, Neoprene (This includes: gloves, boots, apron,

protective suit)

General Protective An eye wash and safety shower should be provided in the immediate work

Measures: area.

#### Components with workplace control parameters

| Components (CAS-No.)                    | Value | Control parameters | Basis (Update)  |
|---|-------|--------------------|-----------------|
| Aluminum Sulfate (17927-65-0)           | TWA   | 1 mg/m3            | ACGIH (02 2014) |
| Copper Sulfate pentahydrate (7758-99-8) | TWA   | 1 mg/m3            | ACGIH (03 2014) |
| [as Cu]                                 |       |                    |                 |
| [as Cu]                                 | TWA   | 0.2 mg/m3          | ACGIH (03 2014) |

# **SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Physical State: solid Form tablet

Color: <\*\* Phrase does not exist: LONZA - SX0900048460 \*\*> Odor: <\*\* Phrase does not exist: LONZA - SX0900048460 \*\*>

Molecular Weight: 232.41 g/mol pH: 2.4 - 2.7

() 10 g/l (as aqueous solution)

Boiling Point: Not applicable

Melting point/freezing

Not applicable

point

Density no data available

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**Bulk Density:** 2,100 kg/m3

Vapor Pressure: no data available Vapor Density: Not applicable Not applicable Viscosity:

Solubility in Water: 12 g/l

77 °F (25 °C)

Partition coefficient n-

octanol/water:

Not applicable

**Evaporation Rate:** Oxidizing:

Not applicable None established

Volatiles, % by vol.:

Not applicable

**VOC Content** Not applicable This product does not contain any chemicals

listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489). This product does not contain any VOC exemptions listed under the U.S. Clean Air Act Section 450.

HAP Content Not applicable

## SECTION 10. STABILITY AND REACTIVITY

Conditions to Avoid: Sparks, open flame, other ignition sources, and elevated

> temperatures., Contact with small amounts of water may result in an exothermic reaction with the liberation of toxic fumes., Damp or slightly wet product (will evolve nitrogen trichloride), May be unstable at temperatures above 225 Deg. C (437 Deg. F)

Chemical Incompatibility: Organic materials, Oils, Grease, Sawdust, Reducing agents,

nitrogen-containing compounds, Oxidizing, Acids, Bases, Dry fire

extinguishers containing ammonium compounds

Hazardous Decomposition Products: Nitrogen trichloride, Chlorine, nitrous oxides, cyanates, Carbon

monoxide, Carbon dioxide

Decomposition Temperature: > 225 °C

## SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

TRICHLORO-S-LD50 = 490 mg/kg Rat

**TRIAZINETRIONE** 

LD50 anhydrous substance = 6,207 mg/kg Aluminum Sulfate Mouse

> LD50 anhydrous substance = 1,930 mg/kg Rat

Copper Sulfate

pentahydrate

LD50 = 300 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

TRICHLORO-S-LD50 > 2,000 mg/kg Rabbit

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TRIAZINETRIONE

Aluminum Sulfate LD50 anhydrous substance Believed to be > 2,000 mg/kg Rabbit

Copper Sulfate pentahydrate

LD50 >= 1,000 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

TRICHLORO-S-LC50 4 h (aerosol dust), (Nose Only) approximately 0.54 mg/l Rat

**TRIAZINETRIONE** 

LC50 1 h (aerosol dust), (Nose Only) approximately 2.16 mg/l Rat

Aluminum Sulfate no data available

Copper Sulfate pentahydrate

no data available

**Product Animal Toxicity** 

LD50 Believed to be > 500 but < 5,000 mg/kg. Oral LD50 value: Rat

LD50 > 5,000 mg/kg Rabbit Dermal LD50 value:

Inhalation LC50

value:

This product has been tested for acute inhalation toxicity. However, due to the physical nature of the product, an aerosol dust of desired particle size could not be

generated. Therefore, no animals could be exposed and no LC50 could be

obtained.

Skin Irritation: DRY MATERIAL CAUSES MODERATE SKIN IRRITATION., WET MATERIAL

CAUSES SKIN BURNS.

Eye Irritation: Corrosive to eyes.

Skin Sensitization: Negative skin sensitizer, guinea pig - Buehler Method

Acute Toxicity: This product is corrosive to all tissues contacted and upon inhalation, may cause

irritation to mucous membranes and respiratory tract. The dry material is irritating to

the skin. However when wet, it will produce burns to the skin.

Subchronic / Chronic

Toxicity:

There are no known or reported effects from repeated exposure., Toxicological investigation indicates it does not produce significant effects from chronic

exposure.

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

**Developmental Toxicity:** 

TRICHLORO-S-TRIAZINETRIONE Not known or reported to cause reproductive or

developmental toxicity. A similar product has been tested and it did not produce teratogenic or fetotoxic

effects in laboratory animals.

Mutagenicity: Not known or reported to be mutagenic.

> TRICHLORO-S-TRIAZINETRIONE This product was determined to be non-mutagenic in

> > the Ames assay.

Copper Sulfate pentahydrate Copper sulfate has been tested for mutagenicity, and

there is equivocal evidence for its mutagenic potential. It was found to be negative in the Ames assay and in a yeast assay. It was found to be positive in the in vitro

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Syrian hamster embryo (SA7/SHE) cell transformation

assay.

Carcinogenicity: This product is not known or reported to be carcinogenic by any reference

source including IARC, OSHA, NTP or EPA.

TRICHLORO-S-TRIAZINETRIONE This chemical is not known or reported to be

carcinogenic by any reference source including IARC,

OSHA, NTP, or EPA.

## **SECTION 12. ECOLOGICAL INFORMATION**

Overview: Highly toxic to fish and other aquatic organisms.

**Ecological Toxicity Values - Product:** 

Rainbow trout (Salmo gairdneri), - 96 h LC50 0.32 mg/l Blueqill sunfish - 96 h LC50 0.30 mg/l

Daphnia magna, - 48 h LC50 0.21 mg/l

Mallard duck - 8 d Dietary LC50 > 10,000 ppm

Mallard duck - Acute Oral LD50 1,600 mg/kg

Bobwhite quail - 8 d Dietary LC50 7,422 ppm

#### Ecological Toxicity Values for: TRICHLORO-S-TRIAZINETRIONE

Rainbow trout (Salmo gairdneri), - 96 h LC50 0.32 mg/l Blueqill sunfish - 96 h LC50 0.30 mg/l

Daphnia magna, - 48 h LC50 0.21 mg/l

Mallard duck - 8 d Dietary LC50 > 10,000 ppm - Acute Oral LD50 1,600 mg/kg

Mallard duck - Acute Oral LD50 1,600 mg/kg
Bobwhite quail - 8 d Dietary LC50 7,422 ppm

#### Ecological Toxicity Values for: Aluminum Sulfate

Largemouth bass - 96 h LC50 = 250 mg/l (anhydrous aluminum sulfate)

Mosquito fish - 96 h LC50 = 235 mg/l (anhydrous aluminum sulfate)

# Ecological Toxicity Values for: Copper Sulfate pentahydrate

Bluegill - (measured, renewal) 96 h LC50 = 0.892 mg/l

Bluegill - (static). 96 h LC50 = 1.3 - 2.8 mg/l Rainbow trout (Oncorhynchus - (static). 96 h LC50 = 0.13 mg/l

mykiss)

Blue crab (Callinectes sapidus) - (static). 96 h LC50= 28 mg/l Northern pink shrimp (Penaeus - (static). 96 h LC50= 16 mg/l

duorarum)

Marsh grass shrimp - (static). 96 h LC50= 17 mg/l

Green algae (Selenastrum - (static). 5 day EC50 (population growth) = 0.0031 mg/l

capricornutum),

Anabaena flos-aquae (freshwater

blue-green algae)

- (static). 5 day EC50 (population growth) = 0.029 mg/l

Skeletonema costatum (diatom) - (static). 5 day EC50 (population growth) = 0.25 mg/l

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## **SECTION 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.

Disposal Methods: As a nonhazardous waste, it should be disposed of in accordance

with local, state and federal regulations.

#### SECTION 14. TRANSPORT INFORMATION

DOT

UN number : 3077

Description of the goods : Environmentally hazardous substances, solid, n.o.s.

: (Trichloro-s-triazinetrione, Copper Sulfate pentahydrate)

Class : 9
Packing group : III
Labels : 9
Emergency Response : 171

Guidebook Number

**TDG** 

UN number : 3077

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Trichloro-s-triazinetrione, Copper Sulfate pentahydrate)

Class : 9
Packing group : III
Labels : 9

IATA

UN number : 3077

Description of the goods : Environmentally hazardous substance, solid, n.o.s.

(Trichloro-s-triazinetrione, Copper Sulfate pentahydrate)

Class : 9

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Packing group : III Labels : 9MI Packing instruction (cargo : 956

aircraft)

Packing instruction : 956

(passenger aircraft)

Packing instruction : Y956

(passenger aircraft)

IMDG-CODE

UN number : 3077

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID,

N.O.S.

(Trichloro-s-triazinetrione, Copper Sulfate pentahydrate)

Class : 9
Packing group : III
Labels : 9
EmS Number 1 : F-A
EmS Number 2 : S-F

Marine pollutant : yes

## **SECTION 15. REGULATORY INFORMATION**

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals.

Signal word : DANGER!

Hazard statements : Harmful if swallowed.

May be fatal if inhaled. Causes skin irritation.

Corrosive. Causes irreversible eye damage.

This pesticide is toxic to fish.

## **EPCRA - Emergency Planning and Community Right-to-Know Act**

## **CERCLA Reportable Quantity**

| Components                  | CAS-No.   | Component RQ (lbs) | Calculated product RQ (lbs) |
|-----------------------------|-----------|--------------------|-----------------------------|
| Copper Sulfate pentahydrate | 7758-99-8 |                    | 645                         |
| Copper Sulfate pentahydrate | 7758-99-8 | 10                 | 645                         |

#### SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

#### **SARA 302**

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No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

#### **SARA 313**

The following components are subject to reporting levels established by SARA Title III, Section 313:

Copper Sulfate 7758-99-8 pentahydrate

#### Clean Air Act

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489).

#### Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

Aluminum Sulfate 17927-65-0 Copper Sulfate 7758-99-8 pentahydrate

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

Aluminum Sulfate 17927-65-0 Copper Sulfate 7758-99-8 pentahydrate

This product contains the following toxic pollutants listed under the U.S. Clean Water Act Section 307

Copper Sulfate 7758-99-8 pentahydrate

**US State Regulations** 

Massachusetts Right To Know

trichloroisocyanuric acid 87-90-1
Aluminum Sulfate 17927-65-0
Copper Sulfate 7758-99-8

pentahydrate

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Pennsylvania Right To Know

trichloroisocyanuric acid

87-90-1 Aluminum Sulfate 17927-65-0 Copper Sulfate 7758-99-8

pentahydrate

**New Jersey Right To Know** 

trichloroisocyanuric acid 87-90-1 Aluminum Sulfate 17927-65-0 Copper Sulfate 7758-99-8

pentahydrate

California Prop 65

This product does not contain any chemicals known to State of

California to cause cancer, birth defects, or any other

reproductive harm.

The components of this product are reported in the following inventories:

**TSCA** : This is an EPA registered pesticide.

**Inventories** 

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)

## **SECTION 16. OTHER INFORMATION**

SECTIONS REVISED:

Available upon request. Major References:

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. .

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