

SAFETY DATA SHEET

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL:

FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®:

FOR ALL SDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 (OUTSIDE

USA: 1-423-780-2970) 1-800-424-9300 (OUTSIDE

USA: 1-703-527-3887) 1-800-511-MSDS (OUTSIDE

USA: 1-423-780-2347)

PRODUCT NAME: TRIADINE® 20 INDUSTRIAL MICROBIOSTAT

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 1200 Bluegrass Lakes Parkway Alpharetta, GA 30004

REVISION DATE: SUPERCEDES:

06/18/2015 06/24/2010

MSDS Number: SYNONYMS:

000000021051 None

CHEMICAL FAMILY: **DESCRIPTION / USE** Mixture

FORMULA:

Industrial biocide None established

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Acute toxicity (Oral)

Category 4

Acute toxicity (Inhalation)

Category 3

Serious eye damage

Category 1

Specific target organ toxicity -

repeated exposure

Category 1

GHS Label element

Hazard pictograms







Signal word

Danger

Hazard statements

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H331 Toxic if inhaled.

H372 Causes damage to organs through prolonged or repeated

exposure.

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Precautionary statements

Prevention:

P260 Do not breathe 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 eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER

or doctor/ physician if you feel unwell. Rinse mouth.

P304 + P340 + P311 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or

doctor/ physician.

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

or doctor/ physician.

P312 Call a POISON CENTER or doctor/ physician if you feel

unwell.

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

Storage:

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

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste

disposal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

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CAS OR CHEMICAL NAME 1,3,5-TRIAZINE-1,3,5(2H,4H,6H)- TRIETHANOL	<u>CAS #</u> 4719-04-4	<u>% RANGE</u> 68 - 75
Sodium Pyrithione	3811-73-2	1 - 5
Water	7732-18-5	20 - 28

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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.

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.

SECTION 5. FIREFIGHTING MEASURES

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

explosive.

Flammable Properties

Ingestion:

Flash Point: Not applicable A Page 1997 And Applicable A Page 1997 And Applicable And Applicable

Autoignition Temperature: No data.

Fire / Explosion Hazards: Material will not ignite or burn. This material is not expected to burn

unless all the water is boiled away. The remaining compounds may

be ignitable.

Extinguishing Media: Not Applicable. - Choose extinguishing media suitable for

Oxides of nitrogen

surrounding materials.

Fire Fighting Instructions: 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. Use water to cool

containers.

Hazardous Combustion Products:

Upper Flammable / Explosive Limit, Not Applicable/Mixture

% in air:

Lower Flammable / Explosive Limit, Not Applicable/Mixture

% in air:

SECTION 6. ACCIDENTAL RELEASE MEASURES

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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:

Vapors may be suppressed by the use of water fog. Contain all

liquid for treatment or neutralization.

Water Release:

This material is soluble in water. Notify all downstream users of

possible contamination. Divert water flow around spill if possible and

safe to do so. Continue to handle as described in land spill.

Land Release:

Create a dike or trench to contain materials. Absorb spill with inert material (e.g., dry sand, clay, earth or commercial absorbent), then place in a chemical waste container. Contain all liquids for treatment

or disposal.

Additional Spill Information:

Stop source of spill as soon as possible and notify appropriate personnel. Utilize emergency response personal protection equipment prior to the start of any response. Evacuate all non-essential personnel. Dispose of spill residues per guidelines under

Section 13, Disposal Consideration.

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 vapor or mist. Keep container closed. Avoid breathing mist or vapor.

Storage: Store in a cool, dry place. Isolate from incompatible materials. Avoid

direct exposure to sunlight or ultraviolet (UV) light sources. Store in a cool, dry place. Isolate from incompatible materials. Do not expose

to direct light.

Shelf Life Limitations: One year minimum if stored in the original container in a cool, dry

place.

Incompatible Materials for Storage:

concentrated acids, Strong oxidizing agentsRefer to Section 10,

"Incompatible Materials."

Do Not Store At temperatures

Above:

50 °C

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 any exposure occurs.

Respirator Type:

A NIOSH approved full-face air purifying respirator equipped with a

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combination organic vapor/formaldehyde/P100 filter cartridge. 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.

Eye Protection: Protective Clothing Type: Use chemical goggles. Impervious

General Protective

Emergency eyewash should be provided in the immediate work area.

Measures:

Components with workplace control parameters

Components (CAS-No.)	Value	Control	Basis (Update)
The second secon		parameters	
Sodium Pyrithione (3811-73-2)	TWA	0.35 mg/m3	ARCH OEL*

ARCH OEL: Arch Recommended Occupational Exposure Guideline.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:

liquid

Form

liquid

Color: Odor: amber, clear mild, Amine

Molecular Weight:

Not Applicable/Mixture

: Hq

9.5 - 11.0

Boiling Point:

216 °F (102 °C)

No data

Density:

9.75lb/gal

(@ 25 Deg. C)

Vapor Pressure:

10.9 mmHg (@ 25 Deg. C)

Vapor Density:

No data

Viscosity:

No data

Fat Solubility:

No data

Solubility in Water:

complete; 100%

Partition coefficient n-

No data

octanol/water:

LONZA-Z09.00400000 1.00 LONZA-S1000000007801

Evaporation Rate: Oxidizing:

No data 25%

Volatiles, % by vol.:

Not applicable

VOC Content **HAP Content**

Not applicable

SECTION 10. STABILITY AND REACTIVITY

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Stability and Reactivity Summary: . Stable under normal conditions. This product may become

unstable at elevated temperatures after the removal of water. Not sensitive to mechanical shock. Not sensitive to static discharge.

Decomposes slowly. Product will not undergo hazardous

polymerization.

Conditions to Avoid: Avoid direct exposure to sunlight or ultraviolet (UV) light sources.,

High temperatures

Chemical Incompatibility: Strong oxidizing agents, concentrated acids

Hazardous Decomposition Products: Formaldehyde, Carbon monoxide, Carbon dioxide, Oxides of

nitrogen No data

Decomposition Temperature:

SECTION 11. TOXICOLOGICAL INFORMATION

Component Animal Toxicology

Oral LD50 value:

1,3,5-TRIAZINE-

 $LD50 = 763 \, \text{mg/kg}$ Rat

1,3,5(2H,4H,6H)-

TRIETHANOL

Sodium Pyrithione

LD50 = 750 mg/kg Rat

Component Animal Toxicology

Dermal LD50 value:

1,3,5-TRIAZINE-

LD50 > 2,000 mg/kg Rabbit

1,3,5(2H,4H,6H)-**TRIETHANOL**

Sodium Pyrithione

LD50 = 700 mg/kg Rabbit

Component Animal Toxicology

Inhalation LC50 value:

1,3,5-TRIAZINE-

No data and professional and the state of th

1,3,5(2H,4H,6H)-**TRIETHANOL**

Sodium Pyrithione

Inhalation LC50 4 h = 1.1 mg/l Rat

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Product Animal Toxicity

Oral LD50 value:

LD50 800 mg/kg Rat

Dermal LD50 value:

LD50 > 2,000 mg/kg Rabbit

Inhalation LC50

LC50 4 h (Nose Only), (aerosol) = 0.87 mg/l Rat LC50 1 h (Nose Only).

value: (aerosol) = 3.5 mg/l Rat

Skin Irritation:

This material is expected to be slightly irritating.

Eye Irritation:

Corrosive to eves.

Skin Sensitization:

Negative skin sensitizer, guinea pig - Buehler Method

Acute Toxicity:

Moderately toxic if swallowed. Moderately toxic by inhalation. Corrosive to the eyes

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Chemicals.

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and mildly irritating to the skin. Moderate respiratory irritant

Subchronic / Chronic Toxicity:

Prolonged or repeated exposure may cause more severe irritation.

Reproductive and **Developmental Toxicity:**

This material has been tested in laboratory animals and no evidence of

teratogenicity or embryotoxicity was seen.

Sodium Pyrithione

This chemical is not considered to be a reproductive or developmental hazard. However, this material when tested in laboratory animals at maternally toxic doses only was found to cause developmental and/or

reproductive toxicity.

Mutagenicity:

Not known or reported to be mutagenic. A similarly structured compound was tested and was found to be non-mutagenic in a battery of

mutagenicity/genotoxicity assays.

1,3,5-TRIAZINE-1,3,5(2H,4H,6H)-

TRIETHANOL

This product has been shown to be non-mutagenic

based on a battery of assays.

Sodium Pyrithione

This product has been shown to be non-mutagenic

based on a battery of assays.

Carcinogenicity:

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

source including IARC, OSHA, NTP or EPA.

1,3,5-TRIAZINE-1,3,5(2H,4H,6H)-

TRIETHANOL

This chemical is not known or reported to be

carcinogenic by any reference source including IARC,

OSHA, NTP, or EPA.

Sodium Pyrithione

Sodium Omadine was administered orally and dermally to laboratory animals and was found not to induce tumor

formation as compared to control animals.

SECTION 12. ECOLOGICAL INFORMATION

Overview:

Slightly toxic to fish and other aquatic organisms., Aquatic toxicity data

presented is for a structurally similar compound.

Ecological Toxicity Values - Product:

Bluegill

(nominal, static). 96.0 h LC50 77 mg/l

Rainbow trout (Salmo gairdneri),

(nominal, static). 96.0 h LC50 42 mg/l

Channel Catfish (Ictalurus

(nominal, static). 96.0 h LC50 36 mg/l

punctatus rafinesque),

Daphnia magna, - (nominal, static). 48.0 h LC50 5.4 mg/l

Ecological Toxicity Values for: 1,3,5-TRIAZINE-1,3,5(2H,4H,6H)-TRIETHANOL

Rainbow trout (Salmo gairdneri),

(measured, flow-through) 96.0 h LC50 > 119 mg/l

Sheepshead minnow

(measured, flow-through) 96 h LC50 > 118 mg/l

Daphnia magna,

48 h LC50= 26.1 mg/l

Mysid shrimp

(measured, flow-through) 96 h LC50= 12 mg/l

Northern bobwhite quail

Dietary LC50 > 5,620 ppm

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Northern bobwhite quail

acute oral LD50 = 1,520 mg/kg

Ecological Toxicity Values for: Sodium Pyrithione

Rainbow trout (Salmo gairdneri),

(measured, static) 96 h LC50 = 0.0066 - 0.008 mg/l (40%

aqueous Sodium Omadine)

Bluegill

(measured, static) 96 h LC50 = 7.6 - 9.6 mg/l (40% aqueous)

Sodium Omadine)

Daphnia magna,

(nominal, static). 48 h LC50= 0.022 mg/l (40% aqueous

Sodium Omadine)

Bobwhite quail

acute oral LD50 = 441 mg/kg (40% aqueous Sodium

Omadine)

Bobwhite quail

8 d dietary LC50 = 3,075 ppm (40% aqueous Sodium

Omadine)

Mallard duck

8 d dietary LC50 = 10,033 ppm (40% aqueous Sodium

Omadine)

Bobwhite quail

acute oral LD50 = 200 mg/kg (94.9% aqueous Sodium

Omadine)

Mallard duck

acute oral LD50 = 92 mg/kg (94.9% aqueous Sodium

Omadine)

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:

Spent or discarded material is not expected to be a hazardous

waste.

Disposal Methods:

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

with local, state and federal regulations.

Potential US EPA Waste Codes:

Not applicable

SECTION 14. TRANSPORT INFORMATION

DOT

UN number

: 3082

Description of the goods

: Environmentally hazardous substance, liquid, n.o.s.

(Sodium Pyrithione)

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; 9 Class : []] Packing group Labels : 9 Emergency Response : 171

Guidebook Number

TDG

UN number : 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Sodium Pyrithione)

: 9

Class : 9 Packing group : 111

Labels

IATA

UN number

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

(Sodium Pyrithione)

Class 9 Packing group : 111 : 9MI Labels : 964

Packing instruction (cargo

aircraft)

Packing instruction : 964

(passenger aircraft)

Packing instruction : Y964

(passenger aircraft)

IMDG-CODE

UN number ·: 3082

Description of the goods : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Sodium Pyrithione)

Class : 9 Packing group : 111 Labels : 9 EmS Number 1 : F-A EmS Number 2 : S-F

Marine pollutant : yes

SECTION 15. REGULATORY INFORMATION

US State Regulations

Massachusetts Right To Know

No components are subject to the Massachusetts Right to Know Act.

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Pennsylvania	Right To Know
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	1,3,5-triazine-1,3,5- (2H,4H,6H)-triethanol	4719-04-4	50 - 70 %
	Water	7732-18-5	20 - 30 %
	Sodium Pyrithione	3811-73-2	1 - 5 %
Know			•
	1,3,5-triazine-1,3,5- (2H,4H,6H)-triethanol	4719-04-4	50 - 70 %
	Water	7732-18-5	20 - 30 %
	Sodium Pyrithione	3811-73-2	1 - 5 %

California Prop 65

New Jersey Right To

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

: The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

Inventories

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

SECTION 16. OTHER INFORMATION

SECTIONS REVISED:

1

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.

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