

Product Name: AT 318

BICI Chemicals

1200 N Peoria
Tulsa, OK 74106
1-918-625-8811



Safety Data Sheet

1 PRODUCT IDENTIFICATION

Product Name **AT 318**
Synonyms **Proprietary Formulation (29CFR 1910.1200)**
Material Use **sewage treatment**

Emergency: 1-800-535-5053

2 HAZARD SUMMARY

GHS Class **NOT HAZARDOUS**
(Category)
Signal Words **NONE**
Hazard Statements **NONE**

GHS Precautionary Statements for Labelling **NONE**

3 COMPONENTS

	%	TLV mg/m ³	LD ₅₀ (mg/kg) ORAL	LD ₅₀ (mg/kg) SKIN	LC ₅₀ (mg/m ³) INHALATION
Proprietary Formulation (29CFR 1910.1200)	100%	15	<1300	>2000	>3000

4 FIRST AID

SKIN: Brush off. Then, wash with plenty of water. Remove contaminated clothing. Do not reuse until laundered.
EYES: Wash eyes with plenty of water, holding eyelids open. Seek medical assistance promptly if there is irritation.
INHALATION: Remove from contaminated area promptly. **CAUTION: Rescuer must not endanger himself!** If victim's breathing stops, administer artificial respiration and seek medical aid promptly.
INGESTION: Give plenty of water to dilute product. Do not induce vomiting (NOTE below). Keep victim quiet. If vomiting occurs, lower victim's head below the hips to prevent inhalation of vomited material. Seek medical help promptly.

NOTE: Inadvertent inhalation of vomited material may seriously damage the lungs. The danger of this is greater than the risk of poisoning through absorption of this non-toxic product. The stomach should only be emptied under medical supervision, after the installation of an airway to protect the lungs.

PLEASE ENSURE THAT THIS MSDS IS GIVEN TO, AND EXPLAINED TO PEOPLE USING THIS PRODUCT.

EMERGENCY INFORMATION: Call CHEMTREC (800) 424-9300

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5 FLAMMABILITY & FIREFIGHTING

Flash Point	cannot burn
Autoignition Temperature	cannot burn
Flammable Limits	cannot burn
Firefighting Precautions	as for materials sustaining fire; compatible with water; firefighters must wear SCBA
Static Discharge	cannot accumulate a static charge

6 ACCIDENTAL RELEASE MEASURES

Leak Precaution	not applicable – <i>solid material</i>
Handling Spill	sweep, shovel & store in closed containers for disposal

7 STORAGE & HANDLING

Store away from strong acids. Avoid generating or breathing product dust. If dust forms in use, install adequate ventilation to control airborne titre to regulated limits. (*see Part 8, below*). Avoid prolonged contact with skin and wash work clothes frequently. An eye bath should be available near the workplace.

8 EXPOSURE CONTROL & PERSONAL PROTECTION

ACGIH TLV	not listed	ACGIH STEL not listed
OSHA PEL	15mg/m ³ (<i>total particulate</i>), 5mg/m ³ (<i>respirable fraction</i>)	OSHA STEL not listed
Ventilation	mechanical ventilation may be required to control airborne titre to regulated limits	
Hands	no special protective gloves required; leather or tightly woven cloth may be worn	
Eyes	safety glasses with side shields – <i>always protect the eyes</i>	
Clothing	no special protective clothing required	

9 PHYSICAL CHARACTERISTICS

NOTE: for Flash Point, Autoignition Temperature & Flammable Limits see Part 5.

Odor & Appearance	colorless (white), odorless crystals or powder
Odor Threshold	not known – <i>odorless</i>
Vapor Pressure	not known – <i>does not form a vapor</i>
Evaporation Rate (<i>Butyl Acetate = 1</i>)	not known – <i>not volatile</i>
Vapor Density (air = 1)	not known – <i>does not form a vapor</i>
Boiling Point	not known – <i>decomposes without boiling</i>
Freezing Point	not known – <i>decomposes without melting</i>
Decomposition Temperature	8.25-900°C / 1517-1652°F
Specific Gravity	2.7 - 2.9 (20/20°C)
Water Solubility	1.5 milligrams/litre (20°C / 68°F) – <i>virtually insoluble in water</i>
- in other solvents	soluble in dilute acids
Viscosity	not applicable – <i>solid material</i>
pH	8.0-9.2 (saturated solution) – <i>slightly alkaline</i>
Molecular Weight	100grams/mole

10 REACTIVITY

Dangerously Reactive With	strong acids – producing carbon dioxide; ignites & burns on contact with fluorine gas
Also Reactive With	may explode on contact with magnesium metal
Chemical Stability	stable; will not polymerize
Decomposes in Presence of	heating above 825°C / 1517°F
Decomposition Products	corrosive calcium oxide

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Mechanical Impact not sensitive

11 TOXICITY

i. EFFECTS OF ACUTE EXPOSURE

Skin Contact	no effect
Skin Absorption	nil; no toxic effects by this route
Eye Contact	dust may be a mechanical irritant; no chemical irritation
Inhalation	little to no effect
Ingestion	little to no effect
LD ₅₀ (oral)	>2000mg/kg (rat – <i>no symptoms seen</i>), 6450mg/kg (rat), 1300mg/kg (mouse – <i>no symptoms seen</i>)
LD ₅₀ (skin)	>2000mg/kg (rat – <i>no symptoms seen</i>)
LC ₅₀ (inhalation)	>3000mg/m ³ (rat – <i>no symptoms seen</i>)

ii. EFFECTS OF CHRONIC EXPOSURE

General	prolonged inhalation may cause increased mucus flow in nose & respiratory passages – <i>coughing & sneezing</i> ; symptoms resolve rapidly when exposure ends
Sensitising	not a sensitiser
Carcinogen/Tumorigen	not a tumorigen or a carcinogen in humans or animals – <i>inhalation may cause silicosis</i>
Reproductive Effect	no known effect on humans or animals
Mutagen	not known to be a mutagen or teratogen in humans or animals
Synergistic With	not known

12 ENVIRONMENTAL INFORMATION

Bioaccumulation	will not bioaccumulate
Biodegradation	this inorganic salt cannot biodegrade
Abiotic Degradation	not known – very stable compound
Mobility in soil, water	almost water insoluble; immobile in soil and the water column

Aquatic Toxicity

LC ₅₀ (Fish, 96 hr)	>140mg/litre (Oncorhynchus mykiss) – <i>this saturated solution had no effect on the fish</i>
LC ₅₀ (Crustacea, 48hr)	>140mg/litre (Daphnia magna) – <i>this saturated solution had no effect on the fcrustacea</i>
EC ₅₀ (Algæ, 72hr)	>14mg/litre (Desmodesmus subspicatus) – <i>this dose had no effect</i>
LC ₅₀ (Bacteria)	>1000mg/litre (activated sewage sludge) – <i>this dose was a suspension . . .</i>

13 DISPOSAL / CONTAINERS

Waste Disposal	small amounts may be flushed to sewer together with dilution water; local regulations may allow disposal of this harmless material in the sanitary landfill
Containers	Drums should be reused. Recondition and pressure test by a licensed reconditioner prior to re-use. Pails must be vented and thoroughly dried prior to crushing and recycling. IBCs (intermediate bulk containers): polyethylene bottle must be pressure tested & recertified at 30 months. Replace at 60 months (5 years). Steel containers must be inspected, pressure tested & recertified every 5 years.

Warning: never cut, drill, weld or grind on or near this container, even if empty.

14 TRANSPORTATION CLASSIFICATION

USA 49 CFR & Canada TDG

Product Identification Number	UN – not regulated for transport
Shipping Name	not regulated for transport
Classification	not regulated for transport

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Marine Pollution
Reportable Quantity (RQ)

not a marine pollutant
none known

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15 REGULATIONS

Canada DSL	on inventory
U.S.A. TSCA	on inventory
Europe EINECS	on inventory

U.S.A. Regulations:

Allowable Tolerances: Residues of formula are exempted from the requirement of a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest. Use: solid diluent, carrier. Residues of formula are exempted from the requirement of a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to animals. Use: solid diluent, carrier.

OSHA Standards: Permissible Exposure Limit: Table Z-1 8-Hr Time Weighted Avg: 15 mg/cu m, total dust. /formula, RN 1317-65-3/ Permissible Exposure Limit: Table Z-1 8-Hr Time Weighted Avg: 5 mg/cu m, respirable fraction. /formula, RN 1317-65-3/

NIOSH Recommendations: Recommended Exposure Limit: 10 Hour Time-Weighted Average: 10 mg/cu m (total); 5 mg/cu m (respirable fraction).

Threshold Limit Values: Substances whose adopted documentation and TLV's were withdrawn. Substance: formula (471-34-1); Year Withdrawn: 2007; Reason: Insufficient data.

FIFRA Requirements: Residues of formula are exempted from the requirement of a tolerance when used in accordance with good agricultural practice as inert (or occasionally active) ingredients in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest. Use: solid diluent, carrier.

FDA Requirements: Certification of this color additive when used as a color additive in drugs is not necessary for the protection of the public health, and therefore batches thereof are exempt from the certification pursuant to section 721(c) of the act. An ingredient whose use in food or food packaging is subject to a prior sanction or approval within the meaning of section 201(s)(4) of the Act is exempt from classification as a food additive. ... Substances classified as stabilizers, when migrating from food-packaging material shall include: ... formula. Substance added directly to human food affirmed as generally recognized as safe. Drug products containing certain active ingredients offered over-the-counter (OTC) for certain uses. A number of active ingredients have been present in OTC drug products for various uses, as described below. However, based on evidence currently available, there are inadequate data to establish general recognition of the safety and effectiveness of these ingredients for the specified uses: formula is included in antidiarrheal drug products. Drug products containing certain active ingredients offered over-the-counter (OTC) for certain uses. A number of active ingredients have been present in OTC drug products for various uses, as described below. However, based on evidence currently available, there are inadequate data to establish general recognition of the safety and effectiveness of these ingredients for the specified uses: formula is included in digestive aid drug products. Drug products containing certain active ingredients offered over-the-counter (OTC) for certain uses. A number of active ingredients have been present in OTC drug products for various uses, as described below. However, based on evidence currently available, there are inadequate data to establish general recognition of the safety and effectiveness of these ingredients for the specified uses: formula is included in weight control drug products. Formula used as a general purpose food additive in animal drugs, feeds, and related products is generally recognized as safe when used in accordance with good manufacturing or feeding practice. Formula used as a nutrient and/or dietary supplement in animal drugs, feeds, and related products is generally recognized as safe when used in accordance with good manufacturing or feeding practice.

16 OTHER INFORMATION

Date of Preparation **June 2015**

Date of Revision

Prepared for BICI Chemicals, by Peter Bursztyn

Resources: [CHEMINFO](#) (Canadian Center for Occupational Health & Safety), [Hazardous Substances Data Bank](#) (US National Library of Science), [ECHA Dossiers](#) (European Union), [ESIS European Chemical Substances Information System](#) (European Union), [OSHA Database](#) (US Dept. of Labor), and [RTECS Database](#) Registry of Toxic Effects of Chemical Substances.

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