



**Arch
Chemicals,
Inc.**

**MATERIAL SAFETY
DATA SHEET**

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: **PROXEL BZ PLUS**
EPA Registration Number: 1258-1326

1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204	REVISION DATE:	09/23/2008
	SUPERCEDES:	07/14/2006
	MSDS Number:	000000002731
	SYNONYMS:	None
	CHEMICAL FAMILY:	Not Applicable/Mixture
	DESCRIPTION / USE:	Bactericide-fungicide
	FORMULA:	None established

2. HAZARDS IDENTIFICATION

OSHA Hazard Classification:	Toxic by ingestion, Severe eye irritant, Possible skin sensitizer
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Routes of Entry:	Inhalation, skin, eyes, ingestion
Chemical Interactions:	No known or reported interactions.
Medical Conditions Aggravated:	Skin diseases including eczema and sensitization, Pre-existing eye disease, Diseases of muscle and nerve

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	2	0	0	
NFPA	2	0	0	



Immediate (Acute) Health Effects

Inhalation Toxicity: Not expected to be hazardous by inhalation unless present as an aerosol. Vapors and/or aerosols which may be formed at elevated temperatures may be irritating to eyes and upper respiratory tract.

Skin Toxicity: Not expected to be irritating to the skin. May be absorbed through skin, but it is unlikely that harmful effects will occur unless contact is prolonged, repeated, and extensive.

Eye Toxicity: May cause severe irritation, consisting of redness, swelling, and mucous membrane discharge to the conjunctiva. Any visual impairment or corneal damage would be expected to clear within several days.

Ingestion Toxicity: Toxic if swallowed. If small quantities are ingested, vomiting will normally occur (usually within 5-10 minutes). This product is an emetic and due to this property, it is unlikely that significant quantities of material would be absorbed across the gastrointestinal tract to produce serious toxic effects. However, ingestion may produce gastrointestinal irritation with nausea, vomiting, lethargy and diarrhea.

Acute Target Organ Toxicity: Severe eye irritation

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: Not known or reported to cause reproductive or developmental toxicity.

Inhalation: There are no known or reported effects from chronic exposure except for effects similar to those experienced from acute exposure.

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

Skin Absorption: Rodents have been observed to experience muscle weakness from prolonged oral and skin exposures. When tested in Monkeys, no such findings occurred.

Ingestion: The production of vomiting would provide protection against systemic toxicity. Chronic toxicity via this route is highly unlikely.

Eye Contact: Prolonged contact may result in more severe irritation.

Sensitization: May cause allergic skin sensitization in some individuals.

Chronic Target Organ Toxicity: Skin

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>
Water	7732-18-5	64 - 81
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	3 - 7
Zinc Pyrithione	13463-41-7	3 - 7



ZINC OXIDE (ZNO)	1314-13-2	12 - 17
XANTHAN GUM	11138-66-2	0.1 - 1.0
sodium 2-naphthalene sulfonate-formaldehyde condensate	Not Assigned	1 - 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):	Product is not known to be flammable, combustible, pyrophoric or explosive.
<u>Flammable Properties</u>	
Flash Point:	boils without flashing (closed cup)
Autoignition Temperature:	Not applicable
Fire / Explosion Hazards:	Material will not ignite or burn.
Extinguishing Media:	Choose extinguishing media suitable for 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:	Carbon monoxide, Carbon dioxide, Zinc oxide, Nitrogen containing gases, Oxides of sulfur, Ammonia
Upper Flammable / Explosive Limit, % in air:	No data
Lower Flammable / Explosive Limit, % in air:	No data



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.
<u>Spill Mitigation Procedures</u>	
Air Release:	Hazardous concentrations in air may be found in local spill area and immediately downwind. Contain all liquids for treatment or disposal.
Water Release:	This material is dispersible in water. Notify all downstream users of possible contamination. Divert water flow around spill if possible and safe to do so. Contain all liquids for treatment or disposal.
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. Decontaminate all clothing and the spill area using a detergent and flush with large amounts of water. 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.

7. HANDLING AND STORAGE

Handling:	Avoid contact and inhalation of the vapors. Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. A sensitized individual should not be exposed to the product which caused the sensitization.
Storage:	Do not store near feed, food, or within the reach of children. Protect from freezing. Freezing will damage the integrity of the dispersion. Always keep the container(s) tightly closed.
Shelf Life Limitations:	Product should be agitated by physical shaking or rotating of drum periodically during prolonged periods of storage to maintain integrity of dispersion. The product should always be mixed thoroughly prior to use. Protect from freezing. Freezing will damage the integrity of the dispersion. No shelf life limit established.
Incompatible Materials for Storage:	Strong oxidizing agents strong acids and bases
Do Not Store At temperatures Above:	60 DEG°C / 140 DEG°F

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.
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Protective Equipment for Routine Use of Product

Respiratory Protection : Wear a NIOSH approved respirator if levels above the exposure limits are possible.

Respirator Type : A NIOSH approved air purifying respirator with organic vapor cartridge and P100 filter. 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. When exposure to high concentrations are prolonged or repeated use protective boots and apron in addition to gloves. A safety shower should be provided in the immediate work area.

Eye Protection: Use chemical goggles. Emergency eyewash should be provided in the immediate work area.

Exposure Limit Data

<u>CHEMICAL NAME</u>	<u>CAS #</u>	<u>Name of Limit</u>	<u>Exposure</u>
1,2-BENZISOTHIAZOLIN-3-ONE	2634-33-5	ARCH-ROEG*	0.1 mg/m ³ TWA
Zinc Pyrithione	13463-41-7	ARCH-ROEG*	0.35 mg/m ³ TWA
ZINC OXIDE (ZNO)	1314-13-2	ZUS_ACGIH	2 mg/m ³ TWA Respirable fraction; see Appendix C, paragraph C., ACGIH 2003 Adoption
ZINC OXIDE (ZNO)	1314-13-2	ZUS_ACGIH	10 mg/m ³ STEL Respirable fraction; see Appendix C, paragraph C., ACGIH 2003 Adoption
ZINC OXIDE (ZNO)	1314-13-2	ZUS_OSHAPO	5 mg/m ³ TWA Fumes
ZINC OXIDE (ZNO)	1314-13-2	ZUS_OSHAPO	10 mg/m ³ STEL Fumes
ZINC OXIDE (ZNO)	1314-13-2	ZUS_OSHAPO	10 mg/m ³ TWA Total dust
ZINC OXIDE (ZNO)	1314-13-2	ZUS_OSHAPO	5 mg/m ³ TWA respirable dust fraction
ZINC OXIDE (ZNO)	1314-13-2	ZUS_OSHAP1	5 mg/m ³ TWA Fumes
ZINC OXIDE (ZNO)	1314-13-2	ZUS_OSHAP1	15 mg/m ³ TWA Total dust
ZINC OXIDE (ZNO)	1314-13-2	ZUS_OSHAP1	5 mg/m ³ TWA respirable dust fraction
ZINC OXIDE (ZNO)	1314-13-2	NIOSH-IDLH	500 mg/m ³

*ARCH-ROEG: Arch Recommended Occupational Exposure Guideline.



9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	liquid
Form	dispersion
Color:	off-white
Odor:	None
Molecular Weight:	Not applicable/Mixture
Specific Gravity :	1.22
pH :	6.0 - 8.5
Boiling Point:	100 DEG°C 212 DEG°F
Freezing Point:	0 DEG°C / 32 DEG°F
Melting Point:	No data
Density:	10.2lb/gal
Vapor Pressure:	No data
Vapor Density:	No data
Viscosity:	2,000 - 8,000 CPS
Fat Solubility:	No data
Solubility in Water:	dispersible
Partition coefficient n-octanol/water:	No data
Evaporation Rate:	No data
Oxidizing:	No data
Volatiles, % by vol.:	Not volatile
VOC Content	0 wt%/wt
HAP Content	No data

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Stable under normal conditions. Product will not undergo hazardous polymerization.
Conditions to Avoid:	High temperatures, Avoid freezing.
Chemical Incompatibility:	Strong oxidizing agents, strong acids, strong bases
Hazardous Decomposition Products:	Carbon monoxide, Carbon dioxide, Oxides of nitrogen, Oxides of sulfur, Ammonia
Decomposition Temperature:	No data

11. TOXICOLOGICAL INFORMATION

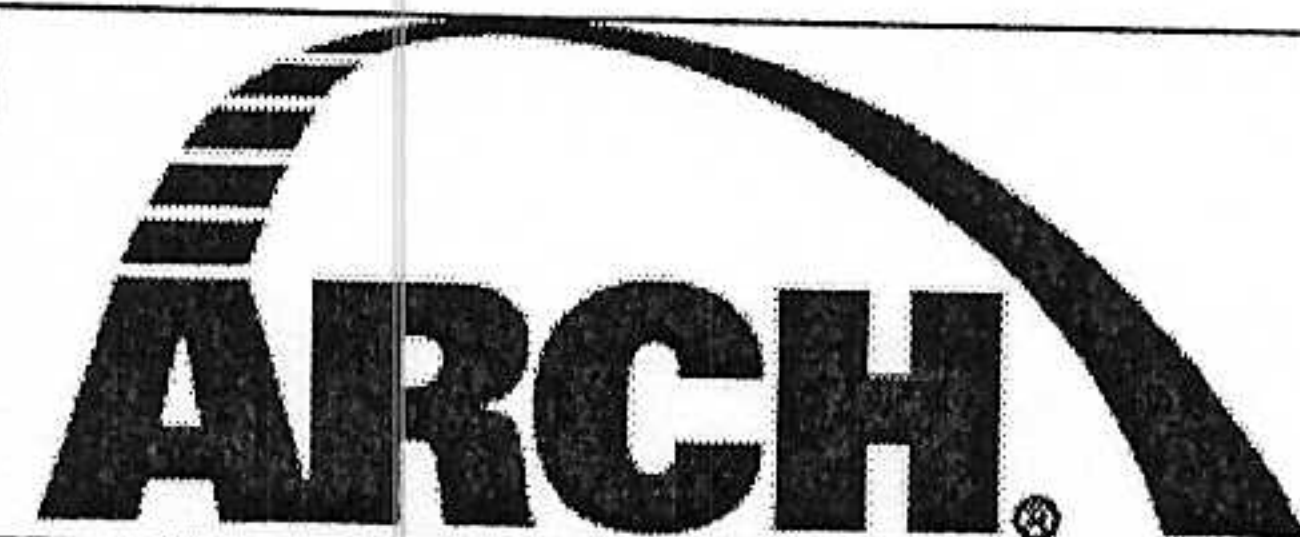
Component Animal Toxicology

Oral LD50 value:

1,2-BENZISOTHIAZOLIN-3-ONE	LD50 = 1,020 mg/kg	Rat
Zinc Pyrithione	LD50 = 269 mg/kg	Rat
ZINC OXIDE (ZNO)	LD50 > 8,437 mg/kg	Rat
sodium 2-naphthalene sulfonate-formaldehyde condensate	LD50 No data	

Dermal LD50 value:

1,2-BENZISOTHIAZOLIN-3-ONE	LD50	Believed to be > 2,000 mg/kg	Rat
Zinc Pyrithione	LD50	> 2,000 mg/kg	Rabbit
ZINC OXIDE (ZNO)	LD50	> 5,000 mg/kg	Rabbit



sodium 2-naphthalene sulfonate-formaldehyde condensate LD50 No data

Inhalation LC50 value:

1,2-BENZISOTHIAZOLIN-3-ONE Inhalation LC50 No data

Zinc Pyrithione

LC50 4 h (Nose Only), (aerosol dust) = 1.03 MG/L Rat

Zinc Pyrithione

LC50 1 h (Nose Only), (aerosol dust) = 4.12 MG/L Rat

ZINC OXIDE (ZNO)

No data

sodium 2-naphthalene sulfonate-formaldehyde condensate

Inhalation LC50 No data

Product Animal Toxicity

Oral LD50 value: LD50 485 mg/kg rat

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

Inhalation LC50 value: Inhalation LC50 No data

Skin Irritation: Not Irritating to the Skin

Eye Irritation: This material is expected to be severely irritating.

Skin Sensitization: May cause allergic skin sensitization in some individuals.

Acute Toxicity: Severe eye irritation

Subchronic / Chronic Toxicity: Skeletal muscle atrophy has been observed from oral and dermal exposure in rats to pyrithione compounds. Exposure to monkeys at several times the dose given to rats gave no indication of either muscle or nerve damage. Although these effects are possible with human exposure, the evaluation of the animals toxicological data makes the above effects unlikely from industrial product use.

ZINC OXIDE (ZNO)

Not known or reported to cause subchronic or chronic toxicity.

Reproductive and Developmental Toxicity:

This chemical is not known or reported to affect reproductive function or fetal development.

1,2-BENZISOTHIAZOLIN-3-ONE

This product has been tested in laboratory animals and was found to cause slight fetotoxicity only at the highest dose in the presence of maternal toxicity. However, no teratogenic effects were seen at any of the doses tested.

Zinc 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.

ZINC OXIDE (ZNO)

Reproductive and/or developmental toxicity was observed in laboratory animals only at high doses that were maternally toxic.

Mutagenicity:

Not known or reported to be mutagenic.

1,2-BENZISOTHIAZOLIN-3-ONE

This chemical has been shown to be non-mutagenic based on a battery of assays.

Zinc Pyrithione

This chemical has been shown to be non-mutagenic



ZINC OXIDE (ZNO)

based on a battery of assays.

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.

Zinc Pyrithione

This material did not cause cancer in long-term animal studies.

ZINC OXIDE (ZNO)

The carcinogenicity has been evaluated through animal study and it was found not to be carcinogenic.

12. ECOLOGICAL INFORMATION

Overview:

Highly/very toxic to fish and other aquatic organisms.

Ecological Toxicity Values for: 1,2-BENZISOTHIAZOLIN-3-ONE

Rainbow trout (<i>Salmo gairdneri</i>),	-	(flow-through). 96 h LC50 = 1.6 mg/l
Bluegill sunfish	-	(flow-through). 96 h LC50 = 5.9 mg/l
Daphnia magna,	-	48 h EC50= 3.27 mg/l
Green algae,	-	72 h EC50 = 0.15 mg/l

Ecological Toxicity Values for: Zinc Pyrithione

Rainbow trout (<i>Salmo gairdneri</i>),	-	(measured, flow-through) 96 h LC50 = 0.0032 mg/l
Fathead minnow (<i>Pimephales promelas</i>),	-	(measured, flow-through) 96 h LC50 = 0.0026 mg/l
Sheepshead minnow	-	(measured, static) 96 h LC50 = 0.4 mg/l
Daphnia magna,	-	(measured, flow-through) 48 h LC50= 0.0082 mg/l
Daphnia magna,	-	(measured, flow-through) 48 h EC50= 0.034 mg/l
Daphnia magna,	-	(measured, flow-through) 21 day EC50 (chronic toxicity)= 0.029 mg/l
Selenastrum capricornutum (freshwater algae)	-	(measured, static) 120 h EC50 = 0.028 mg/l
Lemna gibba G3 (Duckweed)	-	(measured, flow-through) 7 day EC50 = 0.0096 mg/l

Ecological Toxicity Values for: ZINC OXIDE (ZNO)

Fathead minnow (<i>Pimephales promelas</i>),	-	(nominal, static). 96 h LC50 = 2,246 mg/l
Daphnia magna,	-	(nominal, static). 48 h LC50= 24.6 mg/l
Daphnia magna,	-	(measured, static) 48 h LC50= 0.098 mg/l
Bobwhite quail	-	Oral LD50 606 mg/kg
Bobwhite quail	-	Dietary LC50 > 5,000 ppm



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

14. TRANSPORT INFORMATION

Land (US DOT): NOT REGULATED AS A DOT HAZARDOUS MATERIAL
Water (IMDG): UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (ZINC PYRITHIONE, N-BUTYL-1,2-BENZISOTHIAZOLIN-3-ONE) 9 III
Yes, MARINE POLLUTANT

Air (IATA): Flash Point: boils without flashing (closed cup)
UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (ZINC PYRITHIONE, N-BUTYL-1,2-BENZISOTHIAZOLIN-3-ONE) 9 III
Yes

Emergency Response Guide Number: Not applicable

Transportation Notes: Material is not regulated for ground transportation within the US if shipped in non-bulk packages.

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA): The components of this product are listed on the TSCA Inventory of Existing Chemical Substances.

EPA Pesticide Registration Number: 1258-1326

FIFRA Listing of Pesticide Chemicals (40 CFR 180): Not registered in the US under FIFRA.

Superfund Amendments and Reauthorization Act (SARA) Title III:

Hazard Categories Sections 311 / 312 (40 CFR 370.2):
Health Immediate (Acute) Health Hazard
Physical None

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

Reportable Quantity (49 CFR 172.101, Appendix):

ZUS_CERCLA Reportable quantity ZINC AND COMPOUNDS
Value:
ZINC AND COMPOUNDS
Value:

ZUS_SAR302 Reportable quantity None established

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

ZUS_SAR313 De minimis concentration Zinc compounds (Non-carcinogenic)
Value: 1%
Zinc compounds (Non-carcinogenic)
Value: 1%

Clean Air Act Toxic ARP Section 112r:

CAA 112R None established

Clean Air Act Socmi:

HON SOC None established

Clean Air Act VOC Section 111:

CAA 111 None established

Clean Air Act Haz. Air Pollutants Section 112:

ZUS_CAAHAP None established

ZUS_CAAHRP None established

CAA AP None established

State Right-to-Know Regulations Status of Ingredients

Pennsylvania:

CAS #	COMPONENT NAME
13463-41-7	Zinc pyrrhione
1314-13-2	ZINC OXIDE (ZNO)

ZUSPA_RTK

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34,
Labor and Industry Chapter 323
1990-01-01

ZINC COMPOUNDS
environmental hazard, hazardous substance

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34,
Labor and Industry Chapter 323
1990-01-01

ZINC OXIDE (ZNO)
environmental hazard, hazardous substance



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DATA SHEET**

US. Commonwealth of Pennsylvania - Department of Labor and Industry; Pennsylvania Code Title 34,
Labor and Industry Chapter 323
1990-01-01
ZINC OXIDE FUME
environmental hazard, hazardous substance

New Jersey:

CAS #	COMPONENT NAME
13463-41-7	Zinc pyrithione
1314-13-2	ZINC OXIDE (ZNO)

ZUSNJ_RTK

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey
Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq]
1989-12-01
ZINC compounds
hazardous substance

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey
Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq]
1989-12-01
ZINC OXIDE
hazardous substance

US. New Jersey Department of Environmental Protection -; Bureau of Hazardous Substances New Jersey
Right to Know Law, Hazardous Substance List [P.L. 1983, C. 315, NJSA 34:5A-1 et seq]
1989-12-01
ZINC OXIDE FUME
hazardous substance

Massachusetts:

CAS #	COMPONENT NAME
1314-13-2	ZINC OXIDE (ZNO)

ZUSMA_RTK

US. The Commonwealth of Massachusetts Department of Public Health; Massachusetts Right-to-know
law, The Massachusetts Substance List, 105 CMR 670.000
1991-07-01
ZINC OXIDE FUME
massachusetts hazardous substance

California Proposition 65:

CAS #	COMPONENT NAME
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ZUSCA_P65 None established

WHMIS Hazard Classification:

Canada. Canada Hazardous Products Act SOR/88-64
1988-01-20

PROXEL BZ PLUS

REVISION DATE : 09/23/2008



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Concentration by Weight: 0.1 percent by weight
1723
ZINC PYRITHIONE

Canada. Canada Hazardous Products Act SOR/88-64
1988-01-20
Concentration by Weight: 1 percent by weight
1717
ZINC OXIDE

16. OTHER INFORMATION

MSDS REVISION STATUS : Revised to meet the ANSI standard of 16 sections
SECTIONS REVISED: 7
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. .