

MATERIAL SAFETY **DATA SHEET**

FOR ANY EMERGENCY, 24 HOURS / 7 DAYS, CALL: FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC®: FOR ALL MSDS QUESTIONS & REQUESTS, CALL:

1-800-654-6911 1-800-424-9300 1-800-511-MSDS

PRODUCT NAME: SHOCKWAVE™ GRANULAR CALCIUM **HYPOCHLORITE**

EPA Registration Number: 1258-1069-42177

1. PRODUCT AND COMPANY IDENTIFICATION

Arch Chemicals, Inc. 501 Merritt 7 PO Box 5204 Norwalk, CT 06856-5204

REVISION DATE: 01/25/2007 SUPERCEDES:

MSDS Number: SYNONYMS: CHEMICAL FAMILY: DESCRIPTION / USE: FORMULA:

00000003523 None Hypochlorite Sanitizer and Oxidizer NOT APPLICABLE/MIXTURE

2. HAZARDS IDENTIFICATION

OSHA Hazard Oxidizer, Toxic by inhalation., Corrosive, Eye and skin hazard, Lung toxin Classification: Routes of Entry: Inhalation, skin, eyes, ingestion **Chemical Interactions:** No known or reported interactions.

Medical Conditions Aggravated: Asthma, respiratory and cardiovascular disease

Human Threshold Response Data

Odor Threshold	Approximately 1.4 mg/m3 (based on odor threshold of chlorine)
Irritation Threshold	Approximately 13-22 mg/m3 (based on irritation threshold of chlorine)

Hazardous Materials Identification System / National Fire Protection Association Classifications

Hazard Ratings :	<u>Health</u>	Flammability	Physical / Instability	<u>PPI / Special</u> hazard.
HMIS	3	0	1	OX
NFPA	3	0	1	



Immediate (Acute) Health Effects

Inhalation Toxicity:	HARMFUL IF PRODUCT IS INHALED IN HIGH CONCENTRATIONS.
	CAUSES BURNS TO RESPIRATORY TRACT. Inhalation of dust or vapor from this product can be irritating to the nose, mouth, throat and
	lungs. In confined areas, mechanical agitation can result in high levels
	of dust, and reaction with incompatible materials (as listed in Section 10)
	can result in high concentrations of chlorine vapor, either of which may
	result in burns to the respiratory tract, producing lung edema, shortness
	of breath, wheezing, choking, chest pains, impairment of lung function
	and possible permanent lung damage.
Skin Toxicity:	CAUSES SKIN BURNS. Dermal exposure can cause severe irritation
	and/or burns characterized by redness, swelling, and scab formation.
	Prolonged skin exposure may cause permanent damage.
Eye Toxicity:	CAUSES BURNS TO EYES. Severe irritation and/or burns can occur
	following eye exposure. Direct contact may cause impairment of vision
	and corneal damage.
Ingestion Toxicity:	MAY BE FATAL IF SWALLOWED. CAUSES BURNS TO DIGESTIVE TRACT. 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. Due to the corrosive nature of this product, ingestion may be
	fatal.
Prolonged (Chronic) Health Effect	ts

Inhalation:	Repeated inhalation exposure may cause impairment of lung function and permanent lung damage.
Skin Contact:	Effects similar to those from acute exposure. Effects secondary to tissue destruction may also occur upon prolonged or repeated exposure.
Ingestion:	There are no known or reported effects from chronic ingestion except for effects similar to those experienced from single exposure.
Chronic Target Organ Toxicity:	None known
Supplemental Health Hazard	No additional health information available.

3. COMPOSITION / INFORMATION ON INGREDIENTS

CAS OR CHEMICAL NAME	<u>CAS #</u>	<u>% RANGE</u>
CALCIUM HYPOCHLORITE	7778-54-3	60 - 80
SODIUM CHLORIDE	7647-14-5	10 - 20
CALCIUM CHLORATE	10137-74-3	0 - 5
CALCIUM CHLORIDE	10043-52-4	0 - 5
	10045-52-4	0-0

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CALCIUM HYDROXIDE	1305-62-0	0 - 4
CALCIUM CARBONATE	471-34-1	0 - 5
Water	7732-18-5	5.5 - 10

4. FIRST AID MEASURES

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.
Skin Contact:	Call a poison control center or doctor for further treatment advice. 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
Notes to Physician:	anything by mouth to an unconscious person. Probable mucosal damage may contraindicate the use of gastric lavage.

5. FIRE FIGHTING MEASURES

Flammability Summary (OSHA):	This product is chemically reactive with many substances. Any contamination of the product with other substances by spill or otherwise may result in a chemical reaction and fire., This product is a strong oxidizer which is capable of intensifying a fire once started., Product is not known to be flammable, combustible or pyrophoric.
Flammable Properties	
Flash Point:	Not applicable
Autoignition Temperature:	Not applicable
Extinguishing Media:	Water only. Do not use dry extinguishers containing ammonium compounds.
Fire Fighting Instructions:	Use water to cool containers exposed to fire. See Section 6 for protective equipment for fire fighting.
Upper Flammable / Explosive Limit, Lower Flammable / Explosive Limit,	% in air: Not applicable



6. ACCIDENTAL RELEASE MEASURES

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.
Spill Mitigation Procedures	
Air Release:	Vapors may be suppressed by the use of water fog. All water utilized to assist in fume suppression, decontamination or fire suppression may be contaminated and must be contained before disposal and/or treatment.
Water Release:	This product is heavier than water. This material is soluble in water. Monitor all exit water for available chlorine and pH. Advise local authorities of any contaminated water release.
Land Release:	Contact at 1-800-6546-911 immediately. DANGER: All spills of this product should be treated as contaminated. Contaminated product may initiate a chemical reaction that may spontaneously ignite any combustible material present, resulting in a fire of great intensity. In case of a spill, separate all spilled product from packaging, debris and other material. Using a clean broom or shovel, place all spilled product into plastic bags, and place those bags into a clean, dry disposal container, properly marked and labeled. Disposal containers made of plastic or metal are recommended. Do not seal disposal containers to an isolated area outdoors. Place all damaged packaging material in a disposal container of water to assure decontamination (i.e. removal of all product) before disposal. Place all undamaged packaging in a clean, dry container properly marked and labeled. Call for disposal procedures.
Additional Spill Information :	Hazardous concentrations in air may be found in local spill area and immediately downwind. Remove all sources of ignition. Stop source of spill as soon as possible and notify appropriate personnel. 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. FOR ALL TRANSPORTATION ACCIDENTS, CALL CHEMTREC: 1-800-424-9300 REPORTABLE QUANTITY: 10 lbs. (as calcium hypochlorite) per 40 CFR 302.4.

7. HANDLING AND STORAGE

Handling:

Avoid inhalation of dust and fumes. Do not take internally. Avoid contact with skin, eyes and clothing. Upon contact with skin or eyes, wash off with water. Remove contaminated clothing and wash before reuse.

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Storage: Shelf Life Limitations:	cool, dry, well-ventilated area. Sto flammable products. Keep product contamination, including, e.g. othe organic materials, nitrogen-contain extinguishers (containing mono-ar all corrosive liquids, flammable or Shelf life (that is, the period of time stated label strength) is determine	et pacakging clean and free of all er pool treatment products, acids, hing compounds, dry powder fire mmonium phosphate), oxidizers, combustible materials, etc. e before the product goes below ed by storage time and et at temperatures above 52 Deg.C emperature may result in rapid he gas and heat sufficient to ignite d under moderate temperature
Incompatible Materials for Storage:	or above will significantly shorten controlled storage area or building where extremes of high temperatu Do not allow product to come in co including e.g. other pool treatment materials, nitrogen-containing com extinguishers (containing mono-ar all corrosive liquids, flammable or	is recommended in those areas ire occur. ontact with other materials, t products, acids, organic npounds, dry powder fire nmonium phosphate), oxidizers, combustible materials, etc.
Do Not Store At temperatures Above	: Storage above this temperate	ure may result in rapid chlorine gas and heat sufficient to

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Ventilation:	Use local exhaust ventilation to minimize dust and chlorine level where industrial use occurs. Otherwise ensure good general ventilation.			
Protective Equipment for Ro	outine Use of Product			
Respiratory Protection :			ts are created. NIOSH approved chlorine cartridges and dust/mist	
Skin Protection :	•		ntact. Where industrial use occurs,	
Eye Protection:	Use safety glasses with side shields. Where industrial use occurs, chemical			
Protective Clothing Type:	goggles may be required. Neoprene (This includes: gloves, boots, apron, protective suit)			
Exposure Limit Data				
CHEMICAL NAME CALCIUM HYPOCHLORITI	<u>CAS #</u> = 7778-54-3	<u>Name of Limit</u> ARCH-ROEG*	<u>Exposure</u> 1 mg/m3 TWA	
CALCIUM HYPOCHLORITI	E 7778-54-3	NIOSH-IDLH		
CALCIUM HYDROXIDE	1305-62-0	ACGIH	37 - 48 mg/m3 based on IDLH concentration of chlorine 5 mg/m3 TWA	

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CALCIUM HYDROXIDE	1305-62-0	OSHA Z1	5 mg/m3 PEL Respirable fraction.
CALCIUM HYDROXIDE	1305-62-0	OSHA Z1	15 mg/m3 PEL Total dust.
CALCIUM CARBONATE	471-34-1	ACGIH	10 mg/m3 TWA The value is for particulate matter containing no asbestos and <1% crystalline silica.
CALCIUM CARBONATE	471-34-1	OSHA Z1	15 mg/m3 PEL Total dust.
CALCIUM CARBONATE	471-34-1	OSHA Z1	5 mg/m3 PEL Respirable fraction.

*ARCH-ROEG: Arch Recommended Occupational Exposure Guideline.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Form Color: Odor: Molecular Weight: Specific Gravity : pH : Boiling Point: Freezing Point: Melting Point: Density: Vapor Pressure: Vapor Density: Viscosity: Fat Solubility: Solubility in Water:	solid Free flowing, powder white Chlorine-like (Active ingredient)143.00 Not applicable 10.4 - 10.8 (1% solution in neutral, distilled water) (@ 25 Deg. C) Not applicable Not applicable Not applicable 0.8g/cc (@ 25 Deg. C) Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable Not applicable No data 18 % (@ 25 Deg. C) Product also contains calcium hydroxide and calcium carbonate which will leave a residue.
Partition coefficient n- octanol/water: Evaporation Rate: Oxidizing: Volatiles, % by vol.: VOC Content HAP Content	No data Not applicable None established Not applicable Not applicable Not applicable

10. STABILITY AND REACTIVITY

Stability and Reactivity Summary:	Product is not sensitive to mechanical shock or impact. Product is not sensitive to electrical static discharge. Product will not undergo hazardous polymerization. Product is an oxidizer. Not pyrophoric. Not an organic peroxide. Not water reactive. Arch calcium hypochlorite products meet the specifications of ASTM method E-487-74 as set forth in 49 CFR 173.21.
Conditions to Avoid:	May be unstable at temperatures above 170 Deg. C (338 Deg. F), Avoid storage at temperatures above 52° C (125° F)., Prevent

ÁRCH Arc Che	emicals,	MATERIAL SAFETY DATA SHEET
Chemical Incompatibility:	ingress of humidity and moisture Always close the lid. This product is chemically reacti including, e.g., other pool treatm nitrogen-containing compounds, (containing mono-ammonium ph	ve with many substances, nent products, acids, organics, dry powder fire extinguishers nosphate), oxidizers, corrosive,
Hazardous Decomposition Products: Decomposition Temperature:	flammable or combustible mater Chlorine 170 °C - 180 °C , 338 °F- 356 °	

11. TOXICOLOGICAL INFORMATION

Component Animal Toxic	ology
Oral LD50 value: CALCIUM HYPOCHLORITE SODIUM CHLORIDE CALCIUM CHLORIDE	LD50 (65% calcium hypochlorite) 850 mg/kg Rat LD50 = 3,000 mg/kg Rat LD50 = 1,000 mg/kg Rat
<u>Dermal LD50 value</u> : CALCIUM HYPOCHLORITE SODIUM CHLORIDE CALCIUM CHLORIDE	LD50 (65% calcium hypochlorite) > 2,000 mg/kg Rabbit LD50 > 10,000 mg/kg Rabbit LD50 = 2,630 mg/kg Rat
Inhalation LC50 value: CALCIUM HYPOCHLORITE CALCIUM HYPOCHLORITE SODIUM CHLORIDE CALCIUM CHLORIDE	Inhalation LC50 1 HOUR (65% calcium hypochlorite), (Nose Only) = 2.04 MG/Rat Inhalation LC50 4 HOUR (65% calcium hypochlorite), (Nose Only) = 0.51 MG/Rat Inhalation LC50 1 HOUR > 42 MG/L Rat No data
Dermal LD50 value:LInhalation LC50Lvalue:A	D50 850 mg/kg Rat D50 CAUSES BURNS TO EYES AND SKIN. > 2,000 mg/kg Rabbit C50 1.00 HOUR Based on the acute inhalation toxicity for chlorine. Approximately 1.3 MG/L Rat There are no known or reported effects from repeated exposure.
Reproductive and Developmental Toxicity:	Calcium hypochlorite has been tested for teratogenicity in laboratory animals. Results of this study have shown that calcium hypochlorite is not a teratogen.
CALCIUM CHLO	RIDE Not known or reported to cause reproductive or developmental toxicity.
Mutagenicity:	Calcium hypochlorite has been tested in the Dominant lethal assay in male mice, and it did not induce a dominant lethal response. Calcium hypochlorite has been reported to produce mutagenic activity in two in vitro assays. It

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CALCIUM CHLORID	the Ames assay. It wa	ucleus assay. In vitro assays nutagenic potential of bactericidal toxicity. The concentration which s is significantly greater than the d on high cellular toxicity in in vitro
Carcinogenicity:	This product is not known or reported to be source including IARC, OSHA, NTP or EP exposed dermally 3 times a week for 18 m hypochlorite. Histopathological examination incidence of tumors. IARC (International A reviewed studies conducted with several h classified hypochlorite salts as having inact carcinogenicity to humans and animals. If hypochlorite salts to be not classifiable as (Group 3 Substance).	A. One hundred mice were onths to a solution of calcium on failed to show an increased Agency for Research on Cancer) hypochlorite salts. IARC has dequate evidence for ARC therefore considers
CALCIUM CHLORID	E This chemical is not k	nown or reported to be eference source including IARC,

OSHA, NTP, or EPA.

12. ECOLOGICAL INFORMATION

Ecological Toxicity Values for: CALCIUM HYPOCHLORITE

Bluegill	-	(nominal, static). 96 HOUR LC50 0.088 mgl
Rainbow trout (Salmo gairdneri),	-	(nominal, static). 96 HOUR LC50 0.16 mgl
Daphnia magna,	-	(nominal, static). 48 HOUR LC50 0.11 mgl
Bobwhite quail	-	Dietary LC50 > 5,000 ppm
Mallard ducklings	-	Dietary LC50 > 5,000 ppm
Bobwhite quail	-	Oral LD50 3,474 mg/kg

Ecological Toxicity Values for: CALCIUM CHLORIDE

Bluegill	-	(nominal, static). 96 HOUR LC50 = 10,650 mgl
Mosquito fish	-	(nominal, static). 96 HOUR LC50 = 13,400 mgl
Fathead minnow (Pimephales	-	(nominal, static). 96 HOUR LC50 = 4,630 mgl
promelas),		
Daphnia magna,	-	(nominal, static). 48 HOUR LC50= 2,770 mgl
Ceriodaphnia dubia	-	(nominal, static). 48 HOUR LC50= 1,830 mgl
Nitzschia linearis (diatom)	-	(nominal, static). 5 day LC50 = 3,130 mgl



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 meets the criteria of a hazardous waste as defined under 40 CFR 261 and would have the following EPA hazardous waste number: D001.If this product becomes a waste, it will be a hazardous waste which is subject to the Land Disposal restrictions under 40 CFR 268 and must be managed accordingly.
Disposal Methods :	As a hazardous solid waste it should be disposed of in accordance with local, state and federal regulations.

Potential US EPA Waste Codes : D001

14. TRANSPORT INFORMATION

Land (US DOT):UN2880CALCIUM HYPOCHLORITE, HYDRATED MIXTURE5.1IIWater (IMDG):UN2880CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1II

Flash Point: Not applicable

Air (IATA): UN2880 CALCIUM HYPOCHLORITE, HYDRATED MIXTURE, 5.1 II Emergency Response Guide Number: ERG # 140

Transportation Notes: THIS MATERIAL IS REGULATED AS A DOT HAZARDOUS MATERIAL. HAZARD LABEL/PLACARD: OXIDIZER REPORTABLE QUANTITY: 10 lbs. (Per 49 CFR 172.101, Appendix) Under specific circumstances, this product can ship under two transport exceptions, Limited Quantity or Consumer Commodity. See Bill of Lading for proper shipping description.

15. REGULATORY INFORMATION

UNITED STATES:

Toxic Substances Control Act (TSCA):	This is an EPA registered pesticide.
EPA Pesticide Registration Number:	1258-1069-42177
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):			
Health	Immediate (Acute) Health Hazard		
Physical	Fire and Reactivity		



Emergency Planning & Community Right to Know (40 CFR 355, App. A):			
Extremely Hazard SARA III	ous Substance Section 302 - Three Three Planning Quantity:	• •	
Reportable Quant CERCLA	ity (49 CFR 172.101, Appendix): Reportable quantity:	CALCIUM HYPOCHLORITE Value: 10lbs	
SARA III	Reportable quantity:	None established	
Supplier Notificat	ion Requirements (40 CFR 372.45	i), 313 Reportable Components	
SARA III	De minimis concentration:	None established	
Clean Air Act Tox CAA 112R	ic ARP Section 112r: None established		
Clean Air Act Soc HON SOC	mi: None established		
Clean Air Act VOC CAA 111	C Section 111: None established		
Clean Air Act Haz CAA	. Air Pollutants Section 112: None established		
CAA 112I	None established		
CAA AP	None established		
State Right-to-Know Regulations Status of Ingredients			

Pennsylvania:

CAS #	COMPONENT NAME	
10137-74-3	CALCIUM CHLORATE	
1305-62-0	CALCIUM HYDROXIDE	
7778-54-3	CALCIUM HYPOCHLORITE	

PENN RTK

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) PENN RTK 08 1989 CHLORIC ACID, CALCIUM SALT

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) PENN RTK 08 1989 CALCIUM HYDROXIDE (CA(OH)2)

US. Pennsylvania Worker and Community Right-to-Know Law (34 Pa. Code Chap. 301-323) PENN RTK



08 1989 HYPOCHLOROUS ACID, CALCIUM SALT

New Jersey:

CAS #	COMPONENT NAME	
10137-74-3	CALCIUM CHLORATE	
1305-62-0	CALCIUM HYDROXIDE	

NJ RTK

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

NJ RTK 12 1989 Substance no. 0313 CALCIUM CHLORATE CHLORIC ACID, CALCIUM SALT

US. New Jersey Worker and Community Right-to-Know Act (New Jersey Statute Annotated Section 34:5A-5)

NJ RTK 12 1989 Substance no. 0322 CALCIUM HYDROXIDE

Massachusetts:

CAS #	COMPONENT NAME	
10137-74-3	CALCIUM CHLORATE	
1305-62-0	CALCIUM HYDROXIDE	
7778-54-3	CALCIUM HYPOCHLORITE	

MASS RTK

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

MASS RTK 04 1993 CALCIUM CHLORATE

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

MASS RTK 04 1993 CALCIUM HYDROXIDE

US. Massachusetts Commonwealth's Right-to-Know Law (Appendix A to 105 Code of Massachusetts Regulations Section 670.000)

MASS RTK 04 1993 CALCIUM HYPOCHLORITE

California Proposition 65:	
CAS #	COMPONENT NAME



US CA CRT

None established

US CA65CRT

None established

WHMIS Hazard Classification: WHMIS

Canada. Canadian Environmental Protection Act (CEPA). WHMIS Ingredient Disclosure List (Can. Gaz., Part II, Vol. 122, No. 2)

WHMIS 01 1988 Threshold limits: 1% English List no. 302 CALCIUM HYDROXIDE

16. OTHER INFORMATION

MSDS REVISION STATUS : Major References : Revised to meet the ANSI standard of 16 sections 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.