

LTS RESEARCH LABORATORIES, INC. MATERIAL SAFETY DATA SHEET ZINC ARSENIDE

1. PRODUCT AND COMPANY IDENTIFICATION

TRADE NAME:	ZINC ARSENIDE			
CHEMICAL FORMULA:	Zn_3As_2			
MANUFACTUER/SUPPLIER:	LTS RESEARCH LABORATORIES, INC.			
COMPANY'S STREET:	37 RAMLAND ROAD			
COMPANY'S CITY:	OANGEBURG			
COMPANY'S STATE:	NEW YORK			
COMPANY'S ZIP CODE:	10962			
EMERGENCY CHEMTREC #:	800-262-8200			
COMPANY'S EMERGENCY TEL. #:	800-424-9300 (LOCAL)			
	703-527-3887 (INTERNATIONAL)			
COMPANY'S TEL #:	845-494-2940			
RECOMMENDED USE:	SCIENTIFIC RESEARCH AND DEVELOPMENT			
2. HAZARDS IDENTIFICATION				
SIGNAL WORD:	DANGER			
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	V V ZE			
HAZARD SYMBOLS:	TOXIC IF SWALLOWED OR INHALED			
	DANGEROUS TO ENVIRONMENT			
HMIS HEALTH RATINGS (0-4):				
HEALTH:	3			
FLAMMABILITY:	0			
REACTIVITY:	1			
	3. COMPOSITION			
CHEMICAL FAMILY:	CERAMIC			
ADDITIONAL NAMES:	N/A			
ZINC ARSENIDE (Zn_3As_2) :				
PERCENTAGE:	100 wt%			
CAS #:	12006-40-5			
	4. FIRST AID PROCEDURES			
IMPORTANT SYMTOMS:	N/A			
SPECIAL TREATMENT:	N/A			
GENERAL TREATMENT:	IMMEDIATELY REMOVE SOILED CLOTHING. SEEK MEDICAL			
	ATTENTION IF EXPOSED.			
INHALATION:	REMOVE VICTIM TO FRESH AIR GIVE OXYGEN IF			
	BREATHING IS DIFFICULT. PROVIDE ARTIFICIAL			
INCESTION.	RESPIRATION IF BREATHING IS IRREGULAR.			
INGESTION:	IMMEDIATELY CALL FOR MEDICAL HELP. DO NOT INDUCE VOMITING.			

SKIN:	WASH AFFECTED AREA WITH SOAP AND WATER. REMC CONTAMINATED CLOTHING.
EYES:	FLUSH EYES WITH WATER, LIFTING UPPER AND LOWER EYELIDS, FOR 20 MINUTES.
5. FIRE	AND EXPLOSION HAZARDS DATA
FLAMMABILITY:	NON-FLAMMABLE
FLASH POINT:	N/A
AUTOIGNITION TEMPERATURE:	N/A
EXTINGUISHING MEDIA:	USE SUITABLE EXTINGUISHING AGENT FOR SURROUND
SPEC. FIRE FIGHTING PROCEDURE:	MATERIAL AND TYPE OF FIRE. USE FULL-FACE, SELF-CONTAINED BREATHING APPARA
SPEC. FIRE FIGHTING PROCEDURE:	WITH FULL PROTECTIVE CLOTHING TO PREVENT CONTA WITH SKIN AND EYES.
6. AC	CIDENTAL RELEASE MEASURES
IF MATERIAL IS RELEASED/ SPILLED	: WEAR APPROPRIATE RESPIRATORY AND PROTECTIVE
	EQUIPMENT SPECIFIED IN SPECIAL PROTECTION
	INFORMATION. ISOLATE SPILL AREA AND PROVIDE
	VENTILATION. VACUUM UP SPILL USING A HIGH
	EFFICIENCY PARTICULATE ABSOLUTE (HEPA) AIR FILTE
	AND PLACE IN A CLOSED CONTAINER FOR DISPOSAL. TA
	CARE NOT TO RAISE DUST.
ENVIRONMENTAL PRECAUTIONS:	ISOLATE RUNOFF TO PREVENT ENVIRONMENTAL POLLUTION.
7.	HANDLING AND STORANGE
HANDLING CONDITIONS:	WASH THOROUGHLY AFTER HANDLING.
HMIS PROTECTIVE EQUIPMENT:	GLASSES, GLOVES, APRON, DUST RESPIRATOR
STORAGE CONDITIONS:	STORE IN A COOL DRY PLACE IN A TIGHTLY SEALED
WORK AIVCIENTIC MAINTENIANCE.	CONTAINER.
WORK/HYGIENIC MAINTENANCE:	DO NOT USE TOBACCO OR FOOD IN WORK AREA. WASH THOROUGHLY BEFORE EATING AND SMOKING. DO NOT
	BLOW DUST OFF CLOTHING OR SKIN WITH COMPRESSEI
	AIR.
VENTILATION:	PROVIDE SUFFICIENT VENTILATION TO MAINTAIN
	CONCENTRATION AT OR BELOW TLV.
8. EXPOSURI	E CONTROLS / PERSONAL PROTECTION
OSHA PEL:	0.01 mg/m ³ AS ARSENIC
ACGIH TLV:	0.01 mg/m ³ AS ARSENIC
SPECIAL EQUIPMENT:	NONE
RESPIRATORY PROTECTION:	NIOSH APPROVED DUST/MIST RESPIRATOR
PROTECTIVE GLOVES:	RUBBER GLOVES
EYE PROTECTION:	SAFETY GLASSES
BODY PROTECTION:	PROTECTIVE WORK CLOTHING. WEAR CLOSE-TOED SHO
OTHER:	AND LONG SLEEVES/PANTS. N/A
9. PHYSICA	L AND CHEMICAL CHARACTERISTICS
COLOR	METALLIC GREY
FORM:	POWDER, PIECES, PELLETS, GRANULES, SPUTTERING
	TARGET
ODOR:	ODORLESS
WATER SOLUBILITY: BOILING POINT:	INSOLUBLE
THE ALL AND A DESCRIPTION OF A DESCRIPTI	N/A

MELTING POINT: DENSITY: MOLECULAR WEIGHT: 1015 °C 5.528 g/cc 345.95 g/mol

10. REACTIVITY

	10. KEAC11VII 1
STABILITY: INCOMPATIBILITY: HAZ. DECOMPOSITION PRODUCTS: HAZARDOUS POLYMERIZATION:	STABLE OXIDIZING AGENTS, HALOGENS, HALOCARBONS TOXIC METAL OXIDE FUME WILL NOT OCCUR
11. T	OXICOLOGICAL INFORMATION
POTENTIAL HEALTH EFFECTS: EYE: SKIN:	IRRITANT IRRITANT
INGESTION: INHALATION:	FATAL IF SWALLOWED FATAL IF INHALED
ACUTE:	ACUTE ARSENIC POISONING FROM INGESTION RESULTS IN MARKED IRRITATION OF THE STOMACH AND INTESTINES WITH NAUSEA, VOMITING AND DIARRHEA. IN SEVERE CASES, THE VOMITUS AND STOOLS ARE BLOODY AND THE PATIENT GOES INTO COLLAPSE AND SHOCK WITH WEAK, RAPID PULSE, COLD SWEATS, COMA AND DEATH.
CHRONIC:	CHRONIC ARSENIC POISONING MAY CAUSE DISTURBANCES OF THE DIGESTIVE SYSTEM SUCH AS LOSS OF APPETITE, CRAMPS, NAUSEA, CONSTIPATION OR DIARRHEA. ZINC FUMES MAY CAUSE METAL FUME FEVER. EFFECTS INCLUDE DRY THROAT, METALLIC TASTE, CHEST PAIN, DYSPNEA, RALES AND DRY COUGH. SEVERAL HOURS LATER, CHILLS MAY OCCUR WITH LASSITUDE, MALAISE, FATIGUE, HEADACHE, BACK PAIN, MUSCLE CRAMPS, BLURRED VISION, NAUSEA, FEVER, PERSPIRATION, VOMITING AND LEUKOCYTOSIS.
ROUTES OF ENTRY: TARGET ORGANS:	INHALATION AND INGESTION. N/A
SIGNS & SYMPTOMS OF EXPOSURE: MEDICAL CONDITIONS	N/A
AGGRAVATED BY EXPOSURE:	PRE-EXISTING RESPIRATORY DISORDERS.
LD50: CARCINOGEN:	N/A
NTP:	YES
IARC MONOGRAPHS:	YES
OSHA REGULATED:	YES
12.	ECOLOGICAL INFORMATION
ECOLOGICAL EFFECTS:	VERY TOXIC FOR AQUATIC ORGANISMS DO NOT ALLOW MATERIAL TO REACH GROUNDWATER OR SEWAGE SYSTEM EVEN IN SMALL QUANTITIES POISONOUS TO AQUATIC ORGANISMS AVOID TRANSFER TO THE ENVIRONMENT

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

14. TRANSPORTATION DATA



HAZARD CLASS: PACKING GROUP: UN NUMBER: UN PROPER SHIPPING NAME: ROAD ADR//RID CLASS: AIR IATA CLASS: MARITIME IMDG CLASS: 6.1 TOXIC SUBSTANCES
II
UN1557
ARSENIC COMPOUNDS, SOLID, N.O.S. (ZINC ARSENIDE)
6.1 (T5)
6.1
6.1

15. REGULATORY INFORMATION

SEC.302 (EHS):	YES	
SEC.304 (RQ):	N/A	
SEC.313 (SARA):	YES	

16. OTHER INFORMATION

THIS SAFETY DATA SHEET SHOULD BE USED IN CONJUNCTION WITH TECHNICAL SHEETS. IT DOES NOT REPLACE THEM. THE INFORMATION GIVEN IS BASED ON OUR KNOWLEDGE OF THIS PRODUCT, AT THE TIME OF PUBLICATION. IT IS GIVEN IN GOOD FAITH. THE ATTENTION OF THE USER IS DRAWN TO THE POSSIBLE RISKS INCURRED BY USING THE PRODUCT FOR ANY OTHER PURPOSE OTHER THAN THAT FOR WHICH IT WAS INTENDED. THIS DOES NOT IN ANY WAY EXCUSE THE USER FROM KNOWING AND APPLYING ALL THE REGULATIONS GOVERNING HIS ACTIVITY. IT IS THE SOLE RESPONSIBILITY OF THE USER TO TAKE ALL PRECAUTIONS REQUIRED IN HANDLING THE PRODUCT. THE AIM OF THE MANDATORY REGULATIONS MENTIONED IS TO HELP THE USER TO FULFILL HIS OBLIGATIONS REGARDING THE USE OF HAZARDOUS PRODUCTS.

DATE MSDS PREPARED:	02/15/10
DATE LAST REVISED:	08/26/14