LTS RESEARCH LABORATORIES, INC. MATERIAL SAFETY DATA SHEET MAGNESIUM SILICIDE

	MAGNESIUM SILICIDE
	GENERAL
MANUFACTUER/SUPPLIER:	LTS RESEARCH LABORATORIES, INC.
COMPANY'S STREET:	37 RAMLAND ROAD
COMPANY'S CITY:	ORANGEBURG
COMPANY'S STATE:	NEW YORK
COMPANY'S ZIP CODE:	10962
EMERGENCY CHEMTREC #:	800-262-8200
COMPANY'S EMERGENCY TEL. #:	800-424-9300 (LOCAL)
COMPANYIGER	703-527-3887 (INTERNATIONAL)
COMPANY'S TEL #:	845-494-2940
DATE MSDS PREPARED:	02/03/05
DATE MSDS REVISED:	07/28/11
	1. PRODUCT IDENTIFICATION
PRODUCT NAME:	MAGNESIUM SILICIDE
FORMULA:	Mg_2Si , $MgSi$
CAS #:	22831-39-6
MOLECULAR WEIGHT:	76.695
	AL AND CHEMICAL CHARACTERISTICS
BOILING POINT 760 mm Hg:	N/A
MELTING POINT:	1102°C
DENSITY:	1.94 g/cm^3
VAPOR DENSITY:	N/A
VAPOR PRESSURE:	N/A
% VOLATILES:	N/A
SOLUBILITY IN H ₂ O:	CONTACT WITH WATER LIBERATES EXTREMELY
SOLUBILITY IIV II ₂ O.	FLAMMABLE GASES.
APPEARANCE AND ODOR:	BLUE, GREY POWDER, GRANULES, SPUTTERING TARGET
	ODORLESS
	3. HAZARD IDENTIFICATION
HAZARD DESCRIPTION:	F HIGHLY FLAMMABLE
RISK PHRASES:	R 15 CONTACT WITH WATER LIBERATES EXTREMELY
	FLAMMABLE GASES.
HIMS RATINGS:	
HEALTH:	1
FIRE: REACTIVITY:	3 2
	4. FIRE FIGHTING MEASURES
FLASH POINT:	N/A
AUTOIGNITION TEMPERATURE:	N/A
FLAMMABLE LIMITS:	
UPPER:	N/A
LOWER:	N/A
EXTINGUISHING MEDIA:	CO2,EXTINGUISHING POWDER, DO NOT USE WATER.
SPECIAL HAZARDS:	IN CASE OF FIRE, METAL OXIDE FUME, SILICON OXIDE MAY BE REALEASED.
5. H	HEALTH HAZARD INFORMATION

EFFECTS OF EXPOSURE: DUST IS AN IRRITANT TO EYES AND MUCOUS

MEMBRANES. SMALL PARTICLES IMBEDDED IN SKIN MAY CAUSE ULCERATION WHICH MAY BECOME INFECTED. INHALATION OF EXCESSIVE CONCENTRATIONS OF OXIDE

FUME MAY CAUSE METAL FUME FEVER.

ACUTE EFFECTS:

SKIN: IRRITANT TO SKIN AND MUCOUS MMBRANES.

EYE: IRRITATING EFFECT.

CHRONIC AFFECTS: INORGANIC SILICON COMPUNDS MAY BE ACUTE

INHALATION IRRITANTS. PROLONGED INHALATION MAY CAUSE PULMONARY FIBROSIS KNOWN AS SILICOSIS. INHALATION OF MAGNESIUM COMPOUNDS MAY CAUSE METAL FUME FEVER. METALLIC MAGNESIUM WHICH PERFORATES THE SKIN MAY CAUSE LOCAL LESIONS. SOME MAGNESIUM SALTS HAVE PRODUCED MUSCLE WEAKNESS, CARDIAC ARRHYTHMIAS, RESPIRATORY EFFECTS AND CHANGES IN BLOOD CHEMISTRY

FOLLOWING INGESTION.

MEDICAL CONDITIONS

AGGRAVATED BY EXPOSURE: DAMAGED SKIN, EYE DISORDERS, CARDIOPULMONARY

DISEASE

ROUTES OF EXPOSURE: INHALATION, INGESTION, SKIN, EYE.

TARGET ORGAN: RESPIRATORY SYSTEM, SKIN

CARCINOGENITY: NONE IDENTIFIED

NTP: NO IARC: NO OSHA: NO EPA: NO ACGIH: NO

6. STABILITY

STABILITY: STABLE

INCOMPATIBILITY

OTHER PRECAUTIONS:

(MATERIAL TO AVOID): WATER/ MOISTURE, AIR, OXIDIZING AGENTS

HAZARDOUS

DECOMPOSITION PRODUCTS: METAL OXIDE FUME., SILICON OXIDE

HAZARDOUS

POLYMERIZATION: WILL NOT OCCUR.

7. EMERGENCY AND FIRST AID PROCEDURES:

INHALATION: REMOVE FROM EXPOSURE, SEEK IMMEDIATE MEDICAL

ATTENTION.

INGESTION: SEEK IMMEDIATE MEDICAL ATTENTION.

SKIN: REMOVE ANY CONTAMINATED CLOTHING, BRUSH

MATERIAL OFF OF SKIN, FLUSH WITH RUNNING WATER, WASH CAREFULLY WITH SOAP AND WATER. REMOVE

SPLINTERS TO AVOID DELAYS IN HEALING.

EYE: FLUSH WITH COPIOUS AMOUNTS OF WATER FOR 15

MINUTES.

8. HANDLING AND STORAGE

HANDLING AND STORAGE PROTECT AGAINST PHYSICAL DAMAGE. STORE FINELY

DIVIDED SHIPS OR SHAVINGS IN DETACHED FIRE

RESISTIVE BUILDING PROTECTED FROM MOISTURE AND AWAY FROM HALOGENS, ACIDS, AND ALL SOURCES OF IGNITION. HEAVIER MAY BE STORED IN THE OPEN. STORE AWAY FROM WATER/MOISTURE, AIR, OXIDIZING AGENTS.

NORMAL LAB COAT.

9. SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS

RELEASED OR SPILLED: CLEAN UP USING NON-SPARKING TOOLS. NO SMOKING OR

OPEN FLAMES IN CLEAN UP AREA.

WASTE DISPOSAL METHOD: IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL

REGULATIONS.

10. TOXICITY DATA

NO CLASSIFICATION DATA ON CARCINOGENIC PROPERTIES CARCINOGENICITY:

OF THIS MATERIAL IS AVAILABLE FROM THE EPA. IARC.

NTP, OSHA, OR ACGIH.

TO THE BEST OF OUR KNOWLEDGE THE ACUTE AND ADDITIONAL INFORMATION:

CHRONIC TOXICITY OF THIS SUBSTANCE IS NOT FULLY

KNOWN.

______ 11. TRANSPORTATION DATA

D.O.T. REGULATED FOR POWDER AND PIECES

PROPER SHIPPING NAME: MAGNESIUM SILICIDE

UN NUMBER: 2624 HAZARD CLASS: 4.3 PACKAGING GROUP: II

4.3 (W2) SUBSTANCES WHICH, IN CONTACT WITH WATER ADR//RID CLASS:

EMIT, FLAMMABLE GASES

IMDG CLASS:

4.37 AIR TRAN. ICAO/IATA CLASS: 4.3

12. 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.