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**MATERIAL SAFETY DATA SHEET
ZOONOCIDE (ZOONO) Z71**

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EMERGENCY TELEPHONE:

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1 PRODUCT IDENTIFICATION

PRODUCT IDENTIFICATION: Z-71 ZOONOCIDE[®]
CHEMICAL FAMILY: ORGANOSILANE SOLUTION
CHEMICAL NAME: ORGANOSILANE IN WATER

2 PRODUCT COMPONENTS

APPROX. ACGIH OSHA
PRODUCT COMPOSITION % TLV PEL UNITS CAS#OCTADECYLDIMETHYL- <1 NA
NA 027668526 TRIHYDROXYSILYLPROPYL AMMONIUM CHLORIDE
WATER >98 NA NA

FORMULATION INFORMATION:

THIS PRODUCT CONTAINS TOXIC CHEMICAL(S) LISTED BELOW WHICH IS
(ARE) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF
TITLE III OF THE SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF
1986 AND 40 CFR PART 372.

3 PHYSICAL DATA

PRODUCT INFORMATION:

BOILING POINT	: 100/C	% VOLATILE BY VOLUME	: >99
VAPOUR PRESSURE (25 C)	: 100mm	EVAPORATION RATE	: <1
VAPOUR DENSITY (AIR=1)	: >1	(BUTYL ACETATE = 1)	
FREEZING POINT	: 0/ C	SPECIFIC GRAVITY	: ~1
MELTING POINT	: 0/ C	(WATER = 1)	
PHYSICAL STATE	: LIQUID		
ODOUR	: SLIGHT		
COLOUR	: CLEAR		
SOLUBILITY IN WATER	: NA		

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FLASH POINT : NONE
FLAMMABLE LIMITS IN AIR (%) : LOWER NA, UPPER NA
EXTINGUISHING MEDIA : NOT APPLICABLE
SPECIAL FIRE FIGHTING PROCEDURES : NOT APPLICABLE

5 REACTIVITY DATA

STABILITY: STABLE
HAZARDOUS POLYMERIZATION : WILL NOT OCCUR
HAZARDOUS DECOMPOSITION PRODUCTS : CARBON MONOXIDE, CARBON
DIOXIDE, SILICON DIOXIDE

INCOMPATIBILITY (MATERIALS TO AVOID): ANIONIC MATERIALS.
CONDITIONS TO AVOID : FREEZING

6 HEALTH HAZARD DATA

ACUTE SIGNS/EFFECTS OF OVEREXPOSURE:
INGESTION : NO UNTOWARD EFFECTS
SKIN CONTACT : NO UNTOWARD EFFECTS
INHALATION : NO UNTOWARD EFFECTS
EYE CONTACT : IRRITANT DIRECT CONTACT MAY BURN EYES WITH
POSSIBLE PERMANENT INJURY

MEDICAL CONDITIONS AGGRAVATED : UNKNOWN
CHRONIC EFFECTS OF OVEREXPOSURE : UNKNOWN

EMERGENCY AND FIRST AID PROCEDURES :

INGESTION:
IF SWALLOWED DO NOT INDUCE VOMITING; NEVER GIVE ANYTHING TO AN
UNCONSCIOUS PERSON. GET MEDICAL ATTENTION.

SKIN:
IN CASE OF CONTACT, IMMEDIATELY WASH SKIN WITH PLENTY OF SOAP
AND WATER FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION IF ILL
EFFECTS DEVELOP. REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE
REUSE.

INHALATION:
IF INHALED, REMOVE TO FRESH AIR, IF NOT BREATHING GIVE
ARTIFICIAL RESPIRATION, PREFERABLY MOUTH-TO-MOUTH. IF BREATHING
IS DIFFICULT, GIVE OXYGEN / GET MEDICAL ATTENTION.

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EYES: IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES AND GET MEDICAL ATTENTION IF IRRITATION PERSISTS.

PRODUCT INFORMATION:

TOXICITY:

ACUTE ORAL RAT LD50 : 12.27 g/kg
ACUTE DERMAL RABBIT LD50 : 7.95 g/kg
ACUTE INHALATION RAT LCL0 : NOT RATED
AMES TEST : NEGATIVE
PRINCIPAL ROUTES OF EXPOSURE : ORAL / DERMAL - SKIN / EYES

7 SPECIAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION: NO SPECIAL REQUIREMENTS

PROTECTIVE GLOVES: PVC OR RUBBER GLOVES

EYE AND FACE PROTECTION: SAFETY GLASSES; MONOGOGGLES

OTHER PROTECTIVE EQUIPMENT: WEAR EYE PROTECTION AND PROTECTIVE CLOTHING.

VENTILATION: LOCAL EXHAUST: RECOMMENDED

8 SPILL, LEAK AND DISPOSAL PROCEDURES

ACTION TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:

WIPE, SOAK UP IN AN INERT MATERIAL, SCRAPE UP AND PUT IN A CONTAINER FOR DISPOSAL. WEAR PROPER PROTECTIVE EQUIPMENT AS SPECIFIED IN THE PROTECTIVE EQUIPMENT SECTION. WARN OTHER WORKERS OF SPILL.

DISPOSAL METHOD:

DISPOSAL SHOULD BE MADE IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL REGULATIONS. INCINERATION RECOMMENDED.

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PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

STORE UPRIGHT IN A COOL PLACE BELOW 30 C (85 F).

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH SKIN AND EYES.

ENGINEERING CONTROLS:

EXHAUST VENTILATION

SHOWERS

EYEWASH STATIONS

USE IN A WELL VENTILATED AREA

OTHER PRECAUTIONS:

NONE

10 SHIPPING AND REGULATORY CLASSIFICATION DATA

DOT SHIPPING NAME : CHEMICALS, N.O.S.

DOT HAZARD CLASS : NONE

DOT LABEL(S) : NONE

UN/NA NUMBER : NONE

PLACARDS : NONE

EXPORT : CHEMICALS, N.O.S.

EPA HAZARD WASTE : NA

OSHA HAZARD CLASS : NA

CPSC CLASSIFICATION : NA

TRANSPORTATION CLASS : IMO NONE

RID(OCTI) : NONE

ADR(ECE) : NONE

RAR(IATA) : NONE

NFPA/HMIS CLASSIFICATION : FLAMMABILITY 0, REACTIVITY 0,
HEALTH 1**ADDITIONAL INFORMATION:**

THIS DATA IS OFFERED IN GOOD FAITH AS TYPICAL VALUES AND NOT AS A PRODUCT SPECIFICATION. NO WARRANTY, EITHER EXPRESSED OR IMPLIED, IS MADE. THE RECOMMENDED HANDLING PROCEDURES ARE BELIEVED TO BE GENERALLY APPLICABLE. HOWEVER, EACH USER SHOULD REVIEW THESE RECOMMENDATIONS IN THE SPECIFIC CONTENT OF THE INTENDED USE.

Ends.