

----- **MATERIAL SAFETY DATA SHEETS** -----

IDENTITY (As Used on Label and List): **ZPRO Z-33 Insect Killer 47000 – 7-72113**

DATE PREPARED: March 15, 2002

SECTION I

MANUFACTURER'S NAME: CHEM-TECH, LTD.
4515 FLEUR DR. #303
DES MOINES IA 50321

EMERGENCY TELEPHONE NUMBER: 1-800-424-9300 CHEMTREC
TELEPHONE NUMBER FOR INFORMATION: 515/287-6778

SECTION II - HAZARDOUS INGREDIENTS/IDENTITY INFORMATION

Hazardous Components (Specific Chemical Identity; Common Name(s))	OSHA PEL	ACGIH TLV	% (optional)
Pyrethrin CAS #: 8003-34-7	Unknown	5mg/m ³	1.0 Other Limits recommended: None
Piperonyl Butoxide Tech CAS #: 51-03-6	Unknown	50mg/m ³	2.0 Other Limits recommended: None
N-Octyl Bicyclheptene Dicarboximide CAS #: 136-45-8	Unknown	5mg/m ³	3.0 Other Limits Recommended: None
2-Propanone CAS #: 67-64-1	Unknown	500PPM	30 - 60 Other Limits recommended: None
Hydrocarbon Propellant CAS #: 74-98-6	Unknown	1000PPM	10 - 30 Other Limits Recommended: None

This product contains the following toxic chemicals subject to the reporting requirements of section 313 of the Emergency Planning and Community Right-to Know Act of 1986 and of 40 CFR 372:

CAS #	CHEMICAL NAME	% BY WEIGHT
51-03-6	Piperonyl Butoxide Tech.	2.0%

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

BOILING POINT: Liquid under pressure N/A
VAPOR PRESSURE (mm Hg.): PSI at 70 deg F. 60
VAPOR DENSITY (AIR = 1): N/A
SPECIFIC GRAVITY (H₂O = 1): .71
MELTING POINT: N/A
EVAPORATION RATE (Butyl Acetate = 1): N/A
SOLUBILITY IN WATER: <1%
APPEARANCE AND ODOR: Liquid is light amber, clear. Odor of aerosol spray is sweet petroleum type.

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method Used): -100 deg F (Estimated)
FLAMMABLE LIMITS: Not Established
LEL: 1.8 UEL: 9.5
EXTINGUISHING MEDIA: CO₂, dry chemical, halocarbon, water fog.
SPECIAL FIRE FIGHTING PROCEDURES: Cool containers with water. Be aware that containers may burst violently in the presence of heat or flames.
UNUSUAL FIRE AND EXPLOSION HAZARDS: Vapors are heavier than air and may travel to an ignition source and flash back.

SECTION V - REACTIVITY DATA

STABILITY: Stable - Under normal conditions.
CONDITIONS TO AVOID: High heat, open flame
INCOMPATIBILITY (Materials to Avoid): None known.
HAZARDOUS DECOMPOSITION OR BYPRODUCTS: None- Except in case of fire liberates normal oil combustion products, C and CO.
HAZARDOUS POLYMERIZATION: Will not occur
CONDITIONS TO AVOID: None

SECTION VI - HEALTH HAZARD DATA

ROUTE(S) OF ENTRY:
INHALATION? Yes SKIN?--Yes----- INGESTION?--Yes-----
HEALTH HAZARDS (Acute and Chronic):
This product is not normally a serious hazard under normal conditions, but if over exposure occurs, treat with first aid as below and get patient to a physician. Vapor is heavier than air and slightly irritating to mucous membranes.
CARCINOGENICITY:
NTP? IARC MONOGRAPHS? OSHA REGULATED?
Not known to be carcinogenic.
SIGNS AND SYMPTOMS OF EXPOSURE:
Sneezing, eyes watering, runny nose, possible shortness of breath.
MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:
Some breathing disorders. Consult physician.
EMERGENCY AND FIRST AID PROCEDURES:
EYES: Flush with water for 15 minutes.
SKIN: Wash thoroughly with soap and water.
INHALATION: Remove to fresh air.
ORAL: Do not induce vomiting and consult physician.

SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Soak spilled material up with absorbent and put into container for proper disposal at approved landfill.
WASTE DISPOSAL METHOD:
Dispose of waste at approved landfill.
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING:
Store in original container in a cool, dry secure area.
OTHER PRECAUTIONS:
READ LABEL - KEEP FROM REACH OF CHILDREN

SECTION VIII - CONTROL MEASURES

RESPIRATORY PROTECTION (Specify Type):
If working around aerosol mist for long periods of time, use organic vapor mask.
VENTILATION:
LOCAL EXHAUST: Desired OTHER: None
MECHANICAL (General): Desired SPECIAL: None
PROTECTIVE GLOVES: Wear gloves when cleaning up spills.
EYE PROTECTION: Goggles or glasses optional.
OTHER PROTECTIVE CLOTHING OR EQUIPMENT:
None
WORK/HYGIENIC PRACTICES:
Wash hands after handling and before eating or smoking.