

MATERIAL SAFETY DATA SHEET

SPECKOZ® Z 22 CRACK AND CREVICE

1. PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: SPECKOZ Z22 Crack and Crevice
PRODUCT DESCRIPTION: A Pressurized Aerosol Insecticide
PRODUCT CODE: 1021010, EPA REG. NO. : 47000-102-72113

MANUFACTURER

Chem-Tech, Ltd
4515 Fleur Dr.
Des Moines, IA 50321
Product Stewardship: (515) 287-6778

24 HR. EMERGENCY TELEPHONE NUMBERS

CHEMTREC U.S. and CANADA:(800) 424-9300
CHEMTREC All Other Areas:(703) 527-3887

COMMENTS: Chem-Tech,Ltd. hours of operation are 8:00 am to 4:30 pm CST, 14:00 to 22:30 GMT.

2. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	Wt.%	CAS#	EINECS#
Pyrethrins	0.05	008003-34-7	232-319-8
Piperonyl Butoxide	0.1	000051-03-6	200-076-7
MGK®-264 (N-Octyl Bicycloheptene Dicarboximide)	0.17	000113-48-4	204-029-1
BAYGON® (Propoxur)	0.5	000114-26-1	204-043-8
Butyl Cellosolve (2-Butoxyethanol)	5 - 10	000111-76-2	203-905-0
Petroleum Distillates	75 - 90	64742-47-8	265-149-8

COMMENTS: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

IMMEDIATE CONCERNS: CAUTION - FLAMMABLE AEROSOL. DO NOT use or store near heat, sparks, open flame, or any other ignition sources. Contents under pressure. DO NOT expose to temperatures above 130°F (54.4°C) as bursting may occur.

Harmful if inhaled or absorbed through the skin.

Contains petroleum distillates - Vomiting may cause aspiration pneumonia.

Avoid contact with skin, eyes, and clothing. Avoid breathing vapors or spray mists of this product. Wear protective clothing and water-proof gloves.

DO NOT puncture or incinerate container. Follow the "Directions for use" on the label very carefully.

POTENTIAL HEALTH EFFECTS

EYES: May cause temporary irritation, tearing, and blurred vision.

SKIN: Can cause skin irritation. Can cause a burning or prickling sensation on more sensitive areas (face, eyes, mouth). Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

SKIN ABSORPTION: Harmful if absorbed through the skin.

INGESTION: May be harmful if swallowed. Small amounts of this product aspirated into the respiratory system during ingestion or vomiting may cause mild to severe lung injury.

INHALATION: Harmful if inhaled.

CHRONIC: None known.

COMMENTS: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 191 0.1200).

4. FIRST AID MEASURES

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.

SKIN: 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.

INGESTION: If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give any liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.

INHALATION: Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

NOTES TO PHYSICIAN: Contains Pyrethrins and Petroleum Distillates-vomiting may pose an aspiration pneumonia hazard.

For skin effects, a highly efficient therapeutic agent for Pyrethrin exposure is topical application of Tocopherol Acetate (Vitamin E).

ADDITIONAL INFORMATION: This product contains the carbamate insecticide, Propoxur, a cholinesterase inhibitor. Cholinesterase inhibition results in stimulation of the central nervous system, the parasympathetic nervous system, and the somatic motor nerves. If symptoms of carbamate poisoning are present, administer atropine sulfate in large, therapeutic doses. In mild cases, start treatment by giving 1-2 mg of atropine intravenously every 15 minutes until signs of atropinization appear (dry mouth, flushing, and dilated pupils, if pupils were originally pinpoint). In severe cases, start treatment by giving 2-4 mg intravenously every 5-10 minutes until fully atropinized. Dosages for children should be appropriately reduced. Do not use oximes such as 2-PAM unless organophosphate intoxication is also suspected. Do not give morphine. Watch for pulmonary edema, which may develop in serious cases of poisoning even after 24 hours. At first sign of pulmonary edema, place patient in an oxygen tent and treat symptomatically.

5. FIRE FIGHTING MEASURES

FLAMMABLE CLASS: This aerosol is classified as FLAMMABLE by the Flame-Extension Test method described in 16 CFR 1500.45.

EXTINGUISHING MEDIA: Foam, carbon dioxide or dry chemical.

HAZARDOUS COMBUSTION PRODUCTS: Under fire conditions this product will support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides.

EXPLOSION HAZARDS: Contents under pressure. Exposure to temperatures above 130°F (54.4°C) may cause bursting.

FIRE FIGHTING PROCEDURES: Treat as an oil fire. Use a full-faced self-contained breathing apparatus along with full protective gear. Keep nearby containers and equipment cool with a water stream.

SENSITIVITY TO IMPACT: Forceful impacts can cause damage to aerosol unit and may cause a bursting or explosion hazard.

SMALL SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

LARGE SPILL: Shut off ignition sources. Stop release, if possible without risk. Dike or contain release, if possible, and if immediate response can prevent further damage or danger. Isolate and control access to the release area. Take actions to reduce vapors. Collect product into drums, etc. via drains, pumps, etc. Absorb with appropriate absorbent. Clean spill area of residues and absorbent.

ENVIRONMENTAL PRECAUTIONS

WATER SPILL: Contains Pyrethrins, which are toxic to fish and other aquatic invertebrates. Contaminated absorbent and wash water should be disposed of according to local, state, and federal regulations.

7. **HANDLING AND STORAGE GENERAL PROCEDURES:** Do not use or store near heat, sparks, open flame, or any other ignition sources.

HANDLING: Wear water-proof gloves and protective clothing. Mechanical ventilation should be used when handling this product in enclosed spaces. Wearing a respirator is not normally required when handling this product, but recommended in the absence of proper mechanical ventilation. Do not contaminate water, food or feedstuffs by storage, handling, or

disposal.

READ AND OBSERVE ALL PRECAUTIONS AND INSTRUCTIONS ON THE LABEL.

STORAGE: Store containers upright and closed. Store in areas that are cool, dry, and well-ventilated. Exposure to temperatures at or above 130°F (54.4°C) may cause bursting. Keep away from heat, open flame, any ignition sources, and strong oxidizers. Emptied containers may retain product residues. DO NOT puncture or incinerate container.

KEEP OUT OF REACH OF CHILDREN.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

EXPOSURE GUIDELINES:

OSHA HAZARDOUS COMPONENTS (29 CFR 191 0.1200)

<u>Chemical Name</u>	<u>OSHA PEL</u>		<u>EXPOSURE LIMITS</u> <u>ACGIH TLV</u>		<u>Supplier OEL</u>		
	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	<u>ppm</u>	<u>mg/m³</u>	
Pyrethrins	TWA	5		5			
Piperonyl Butoxide	TWA	None	None		None		
MGK®-264 (N-Octyl Bicycloheptene Di.)	TWA	None	None		None		
BAYGON® (Propoxur)	TWA		0.5				
Butyl Cellosolve (2-Butoxyethanol)	TWA	50	240	20	97	25	120
Petroleum Distillates	TWA					166[1]	1200

OSHA TABLE COMMENTS:

1. Based on total hydrocarbon composition.

ENGINEERING CONTROLS: Mechanical ventilation should be used when handling this product in enclosed spaces. Local exhaust ventilation may be necessary.

PERSONAL PROTECTIVE EQUIPMENT

EYES AND FACE: Take prudent precautions to avoid contact with eyes.

SKIN: Wear water-proof gloves.

RESPIRATORY: Wearing a respirator is not normally required when handling this product. Use in well ventilated areas.

Take prudent precautions to avoid breathing vapors and/ or spray mists of this product. **PROTECTIVE CLOTHING:** Wear water-proof gloves and protective clothing.

WORK HYGIENIC PRACTICES: DO NOT SMOKE, EAT, OR DRINK, OR APPLY COSMETICS IN WORK AREA!

Wash promptly if skin becomes contaminated. Wash at the end of each work shift and before eating, smoking, or using the toilet.

9. PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE: Pressurized Liquid

ODOR: Slight bitter/ rotten odor.

COLOR: Gardner Scale 2

pH: Not Determined

VAPOR PRESSURE: Not Available

VAPOR DENSITY: Heavier than air.

FREEZING POINT: Not Available

SOLUBILITY IN WATER: Immiscible in water

EVAPORATION RATE: Not Determined

SPECIFIC GRAVITY: 0.790 (Water = 1) at 20°C (68°F) **VISCOSITY:** 8.3CPS at 23°C (73.4°F) Brookfield on Non-Volatiles **(VOC):** <8.000 %

COMMENTS:

WATER SOLUBILITY: Water Solubility analysis is for the aerosol contents less the compressed gas propellant (i.e., Non-Volatiles).

SPECIFIC GRAVITY: Specific Gravity is for the aerosol contents less the compressed gas propellant (i.e., Non-Volatiles).

10. STABILITY AND REACTIVITY

STABLE: Yes

HAZARDOUS POLYMERIZATION: No

CONDITIONS TO AVOID: Not compatible with strong acids or bases. Not compatible with strong oxidizers.

11. TOXICOLOGICAL INFORMATION

ACUTE

DERMAL LD₅₀: >2000 mg/kg
Albino rabbit.

ORAL LD₅₀: >5000 mg/kg
Albino rat.

INHALATION LC₅₀: The Acute Inhalation LC₅₀ of this material places it in EPA Toxic Category III. **EYE**

EFFECTS: Irritation clearing in 48 hours. Practically non-irritating.

SKIN EFFECTS: Slight irritation at 72 hours. Irritation Index = 3

SENSITIZATION: A contact sensitizer.

GENERAL COMMENTS: Some or all of the toxicity data reported above was bridged from a substantially similar formula.

COMMENTS: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as being carcinogens.

Carcinogenicity/ Oncogenicity-Pyrethrum has been tested in chronic feeding studies in mice and rats. Slightly elevated incidences of benign tumors of the thyroid and liver were seen in rats following high doses of Pyrethrum. Further detailed scientific studies into the mechanism causing these responses indicate that these effects in the animals only occur at doses greatly exceeding the likely human exposure levels. Thus, the effects seen in animals are of little relevance to humans.

Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses. Doses at which these effects were observed greatly exceed anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.

12. ECOLOGICAL INFORMATION ENVIRONMENTAL DATA: Environmental data not

available for this product.

ECOTOXICOLOGICAL INFORMATION: This product is extremely toxic to fish. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters, unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA. Do not contaminate water when disposing of equipment wash waters.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

EMPTY CONTAINER:
IF EMPTY:

Place in trash or offer for recycling if available.

IF PARTLY FILLED:

Call your local solid waste agency or 1-800-CLEAN-UP for disposal instructions.

RCRA/EPA WASTE INFORMATION: This product contains the following RCRA/CERCLA Hazardous wastes: Component, RCRA ID#, Cercla RQ, Pyrethrins, N/A, 1 Lb.

Propoxur (BAYGON®), U41 1, 100 Lbs.

14. TRANSPORT INFORMATION

DOT (DEPARTMENT OF TRANSPORTATION) PROPER

SHIPPING NAME: Consumer Commodity **PRIMARY**

HAZARD CLASS/DIVISION: ORM-D

AIR (ICAO/IATA)

PROPER SHIPPING NAME: Consumer Commodity

PRIMARY HAZARD CLASS/DIVISION: 9

UN/NA NUMBER: UN8000

VESSEL (IMO/IMDG)

PROPER SHIPPING NAME: Not Available

15. REGULATORY INFORMATION

UNITED STATES

SARA TITLE III (SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT)

311/312 HAZARD CATEGORIES:

FIRE: Yes **PRESSURE GENERATING:** Yes **REACTIVITY:** No **ACUTE:** Yes

313 REPORTABLE INGREDIENTS: This product contains no SARA Title III Section 313 chemicals that exceed the reporting limits.

302/304 EMERGENCY PLANNING

EMERGENCY PLAN: There are no SARA Title III Section 302 extremely hazardous substances present in this formulation (40 CFR 355).

See Section 13 of this MSDS for the components that are subject to emergency requirements under CERCLA Section 103(a)(40 CFR 302.4).

TSCA (TOXIC SUBSTANCE CONTROL ACT)

TSCA STATUS: All chemical substances found in this product comply with the Toxic Substances Control Act's inventory reporting requirements.

16. OTHER INFORMATION

HMIS RATING 2 – 2 - 1

HMIS RATINGS NOTES: We assign HMIS ratings to this product based on the hazards of its ingredients(s). Since the customer is most aware of the applications and conditions of use, he or she must ensure that the proper Personal Protective Equipment is provided, consistent with the information contained in Section's 7 and 8 of this MSDS.

COMMENTS: The data contained herein are based on information currently available to Chem-Tech, Ltd and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which Chem-Tech, Ltd. assumes legal responsibility.