



Material Safety Data Sheet

ISOTOX Insect Killer Formula IV

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This Material Safety Data Sheet contains environmental, health and toxicology information for your employees. Please make sure this information is given to them. It also contains information to help you meet community right-to-know/emergency response reporting requirements under SARA Title III and many other laws. If you resell this product, this MSDS must be given to the buyer or the information incorporated in your MSDS. Discard any previous edition of this MSDS.

This revision updates Section 1 (Product Identification).

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

ISOTOX Insect Killer Formula IV

| | | | |
|----------------------------|-----------|-----------|-----------|
| PRODUCT NUMBER(S): AGC5616 | UPC01600E | UPC01600G | UPC01601B |
| UPC01601G | UPC01602E | UPC01602G | UPC01602H |

COMPANY IDENTIFICATION

Chevron Chemical Company
Ortho Consumer Products
P.O. Box 5047
San Ramon, CA 94583-0947

EMERGENCY TELEPHONE NUMBERS

HEALTH (24 hr): (800)457-2022 or
(510)233-3737 (International)
TRANSPORTATION (24 hr): CHEMTREC
(800)424-9300 or (202)483-7616

PRODUCT INFORMATION: (510)842-5550

| | | |
|-------------------------|-------------------------|---------------------|
| Revision Number: 1 | Revision Date: 10/24/92 | MSDS Number: 004416 |
| NDA - No Data Available | MA - Not Applicable | |

Prepared According to the OSHA Hazard Communication Standard (29 CFR 1910.1200) by the Chevron Environmental Health Center, Inc., P.O. Box 4054, Richmond, CA 94804.

u 3/93
MSDS# 2214
PROD. CODE

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2. COMPOSITION/INFORMATION ON INGREDIENTS

LABEL COMMENT:

This Material Safety Data Sheet (MSDS) contains health, safety and environmental information for you and your employees. It does not replace the precautionary use, storage and disposal information presented on the product label. This information will help you to prepare for emergency response and to meet community right-to-know/ emergency response and reporting requirements under SARA Title III and many other laws. Emergency response agencies and health care providers will also find this additional information useful.

Homeowner consumer use, storage and disposal are regulated by the EPA through the approved label copy, and it is a violation of Federal law to use the product in any manner not prescribed on the EPA-approved label. In order to avoid confusion, this MSDS should not be distributed to homeowner consumers.

Although an MSDS is not required for a consumer product used by the homeowner, we provide this MSDS for employers who handle or store large quantities of this product (e.g. transporters, warehouses and retailers).

This MSDS should also be made available to any employee whose exposure to the product in quantity, frequency or duration may be greater than that of a homeowner consumer.

This MSDS should be supplied to subsequent transporters, shippers, warehouses, retailers or employers where handling, storing or use of this product exceed in quantity, frequency or duration those of a homeowner consumer.

The proportion compositions are given to allow for the various ranges of the components present in the whole product and may not equal 100%.

100.0 % ISOTOX Insect Killer Formula IV

CONTAINING

| COMPONENTS | AMOUNT | LIMIT/QTY | AGENCY/TYPE |
|---|--------|-----------|-------------|
| ACEPHATE Chemical Name: O,S-DIMETHYL ACETYLPHOSPHORAMIDOTHIOATE CAS30560191 | 8.0% | 1 mg/m3 | Chevron TWA |

| | | | |
|--|------|--|--|
| HEXAKIS Chemical Name: (SEE BELOW) CAS13356085 | 0.5% | | |
|--|------|--|--|

HEXAKIS is: Hexakis (2-methyl-2-phenylpropyl)distannoxane.

INERT INGREDIENTS

| | | |
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91.5%

"Inert Ingredients" is a term defined by the U.S. Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act (40 CFR 158.153). It refers to any substance, other than an active ingredient, which is intentionally added to a pesticide product. Some inert ingredients may be hazardous chemicals, as defined by the Federal OSHA Hazard Communication Standard (29 CFR 1910.1200). The hazards associated with these inert ingredients have been included in this document.

INCLUDING

ISOPROPYL ALCOHOL
Chemical Name: 2-PROPANOL
CAS67530

| | |
|-----------|------------|
| 983 mg/m3 | ACGIH TWA |
| 500ppm | ACGIH STEL |
| 400ppm | OSHA TWA |
| 500ppm | OSHA STEL |

PYRROLIDINONE
Chemical Name: PYRROLIDINONE, 1-METHYL
CAS872504

| | |
|----------------------------------|--|
| TLV - Threshold Limit Value | TWA - Time Weighted Average |
| STEL - Short-term Exposure Limit | TPQ - Threshold Planning Quantity |
| RQ - Reportable Quantity | CPS - CUSA Product Code |
| CC - Chevron Chemical Company | CAS - Chemical Abstract Service Number |

3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

- CAUSES IRREVERSIBLE EYE DAMAGE
- CAUSES SKIN IRRITATION
- MAY BE HARMFUL IF SWALLOWED OR ABSORBED THROUGH THE SKIN
- DO NOT GET IN EYES, ON SKIN, OR ON CLOTHING
- FLAMMABLE
- KEEP OUT OF REACH OF CHILDREN

POTENTIAL HEALTH EFFECTS

EYE CONTACT:

This substance is a severe eye irritant and could cause permanent damage to your eyes and blindness. The degree of the injury will depend on the amount of material that gets into the eye and the speed and thoroughness of the first aid treatment. Signs and symptoms may include pain, tears, swelling, redness, and blurred vision.

SKIN IRRITATION:

| | | |
|-------------------------|-------------------------|---------------------|
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This substance is a severe skin irritant so contact with the skin could cause prolonged (weeks) injury to the affected area. The degree of injury will depend on the amount of material that gets on the skin and the speed and thoroughness of the first aid treatment. Signs and symptoms may include pain or a feeling of heat, discoloration, swelling, and blistering.

DERMAL TOXICITY:

This substance may be slightly toxic to internal organs if absorbed through the skin. The degree of injury will depend on the amount absorbed.

RESPIRATORY/INHALATION:

If inhaled, this substance is considered practically non-toxic to internal organs.

INGESTION:

This substance is slightly toxic to internal organs if swallowed. The degree of injury will depend on the amount absorbed from the gut.

4. FIRST AID MEASURES

EMERGENCY NUMBER (24 hr): (800)457-2022 or (510)233-3737 (International)

EYE CONTACT:

Immediately hold eyelids open and flush eyes with fresh water for at least 15 minutes. Remove contact lenses if worn. Get medical attention immediately.

SKIN CONTACT:

If on skin, remove contaminated clothing, wash skin with plenty of soap and water. Wash contaminated clothing before reuse. If irritation occurs, see a doctor.

INHALATION:

Since this material is not expected to be an immediate inhalation problem, no first aid procedures are required.

INGESTION:

If swallowed: Do not induce vomiting. Call a physician or poison control center. Drink promptly a large quantity of milk, egg whites, or gelatin solution. If these are not available, drink large quantities of water. Avoid alcohol.

5. FIRE FIGHTING MEASURES

FLASH POINT: NDA 106F (41C)

AUTOIGNITION: 600F (316C)

FLAMMABILITY LIMITS (% by volume in air): Lower: NDA Upper: NDA

Class II Liquid

EXTINGUISHING MEDIA:

CO₂, Dry Chemical, Foam Water Fog.

FIRE FIGHTING PROCEDURES:

Products of combustion from fires involving this material may be toxic. Avoid breathing smoke and mists. Avoid personnel and equipment contact with fallout and runoff. Minimize the amount of water used for fire fighting. Do not enter any enclosed area without full protective

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equipment, including self-contained breathing equipment. Contain and isolate runoff and debris for proper disposal. Decontaminate personal protective equipment and fire fighting equipment before reuse. Read the entire document.

COMBUSTION PRODUCTS:

Normal combustion forms carbon dioxide, water vapor and may produce oxides of sulfur, nitrogen and phosphorous. Combustion may produce toxic compounds of chlorine. Incomplete combustion can produce carbon monoxide.

NFPA RATINGS: Health 3; Flammability 2; Reactivity 0; Special NDA; (Least-0, Slight-1, Moderate-2, High-3, Extreme-4). These values are obtained using the guidelines or published evaluations prepared by the National Fire Protection Association (NFPA) or the National Paint and Coating Association.

6. ENVIRONMENTAL CONCERNS, SPILL RESPONSE AND DISPOSAL

CHEMTREC EMERGENCY NUMBER (24 hr): (800)424-9300 or (202)483-7616

SPILL/LEAK PRECAUTIONS:

This material is toxic to birds and other wildlife. Highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. This material is toxic to aquatic organisms and should be kept out of sewage and drainage systems and all bodies of water. Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of waste. For help with any spill, leak, fire or exposure involving this material, call day or night (800) 457-2022. Cover spill with a generous amount of Oil Dry, cat litter, clay, rags or other absorbent. Use a stiff broom to mix thoroughly. Sweep up and place in a disposable container. Scrub contaminated area with detergent and water using a stiff broom. Pick up liquid with additional absorbent and place in a disposable container.

DISPOSAL METHODS:

Partially filled container may be disposed of by securely wrapping original container in several layers of newspaper and discard in trash. Do not reuse empty container. Rinse empty container thoroughly before discarding in trash.

7. STORAGE, HANDLING, AND REACTIVITY

HAZARDOUS DECOMPOSITION PRODUCTS:

NDA

STABILITY:

Stable.

HAZARDOUS POLYMERIZATION:

Polymerization will not occur.

INCOMPATIBILITY:

May react with strong oxidizing agents, such as chlorates, nitrates, peroxides, etc.

SPECIAL PRECAUTIONS:

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING. READ ENTIRE LABEL. USE STRICTLY IN

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ACCORDANCE WITH LABEL PRECAUTIONARY STATEMENTS, AND DIRECTIONS.

Keep pesticide in original container.

Do not put concentrate into food or drink containers. Do not dilute concentrate in food or drink containers.

Do not store diluted spray.

Do not contaminate food or feed.

DO NOT USE OR STORE near flame, sparks or hot surfaces. USE ONLY IN WELL VENTILATED AREA. Keep container closed.

Store in a secure, preferably locked, cool dry storage area away from heat, open flame, and direct sunlight.

8. PROTECTIVE EQUIPMENT**EYE PROTECTION:**

Appropriate eye protection must be worn when working with this material or serious harm can result. Wear chemical goggles or a face shield at all times.

SKIN PROTECTION:

Do not get on skin or on clothing. Wear protective clothing including gloves when handling.

RESPIRATORY PROTECTION:

No special respiratory protection is normally required.

VENTILATION:

Use this material only in well ventilated areas.

9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|----------------------------|-------------------|
| APPEARANCE: | NDA |
| ODOR: | NDA |
| PHYSICAL STATE: | Liquid |
| pH: | NDA |
| VAPOR PRESSURE: | NDA |
| VAPOR DENSITY (AIR=1): | 3.6 |
| BOILING POINT: | NDA |
| FREEZING POINT: | NDA |
| MELTING POINT: | NDA |
| SOLUBILITY: | Miscible in water |
| SPECIFIC GRAVITY: | 0.97 |
| DENSITY: | NDA |
| EVAPORATION RATE: | NDA |
| PERCENT VOLATILE (VOL): | 92% |

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10. TOXICOLOGICAL INFORMATION**EYE IRRITATION:**

The hazard evaluation for this material was based on eye irritation test results for a similar material: Corrosive (irreversible destruction of ocular tissue); or corneal involvement or irritation persisting for more than 21 days.

SKIN IRRITATION:

The hazard evaluation for this material was based on skin irritation test results for a similar material: The Draize Skin Primary Irritation Score (range, 0-8) for a 4-hour exposure (rabbits) is 4.5. This material was not a skin sensitizer in the modified Buehler Guinea Pig Sensitization Test.

DERMAL TOXICITY:

The hazard evaluation for this material was based on dermal toxicity results for a similar material: The dermal LD50 in rabbits is greater than 5.0 g/kg.

RESPIRATORY/INHALATION:

The hazard evaluation for this material was based on inhalation toxicity results for a similar material: The 4-hour inhalation LC50 in rats is greater than 5.1 mg/l.

INGESTION:

The hazard evaluation for this material was based on oral toxicity results for a similar material: The oral LD50 in male rats is 2.74 g/kg. The oral LD50 in female rats is 1.83 g/kg.

11. TRANSPORT INFORMATION

DOT SHIPPING NAME: NDA
 DOT HAZARD CLASS: NDA
 DOT IDENTIFICATION NUMBER: NDA
 DOT PACKING GROUP: NDA

12. REGULATORY INFORMATION

SARA 311 CATEGORIES:

| | |
|---------------------------------------|-----|
| 1. Immediate (Acute) Health Effects: | YES |
| 2. Delayed (Chronic) Health Effects: | NO |
| 3. Fire Hazard: | YES |
| 4. Sudden Release of Pressure Hazard: | NO |
| 5. Reactivity Hazard: | NO |

REGULATORY LISTS SEARCHED:

| | | |
|-------------------|-----------------|-------------------------|
| 01-SARA 313 | 11-NJ RTK | 21-TSCA Sect 4(e) |
| 02-MASS RTK | 12-CERCLA 302.4 | 22-TSCA Sect 5(a)(e)(f) |
| 03-NTP Carcinogen | 13-MN RTK | 23-TSCA Sect 6 |

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| | | |
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| 04=CA Prop 65-Carcin | 14=ACGIH TWA | 24=TSCA Sect 12(b) |
| 05=CA Prop 65-Repro Tox | 15=ACGIH STEL | 25=TSCA Sect 8(a) |
| 06=IARC Group 1 | 16=ACGIH Calc TLV | 26=TSCA Sect 8(d) |
| 07=IARC Group 2A | 17=OSHA TWA | 28=Canadian WBMIS |
| 08=IARC Group 2B | 18=OSHA STEL | 29=OSHA CEILING |
| 09=SARA 302/304 | 19=Chevron TWA | 30=Chevron STEL |
| 10=PA RTK | 20=EPA Carcinoger. | |

The following components of this material are found on the regulatory lists indicated.

(SEE BELOW)

is found on lists: 28,

O,S-DIMETHYL ACETYLPHOSPHORAMIDOTHIOATE

is found on lists: 19,

2-PROPANOL

is found on lists: 01,02,10,11,13,14,15,17,18,21,24,26,28,

PYRROLIDINONE, 1-METHYL

is found on lists: 02,10,11,

13. ADDITIONAL HEALTH DATA

ADDITIONAL HEALTH DATA COMMENT:

This product contains an organic phosphorus insecticide which inhibits the enzyme cholinesterase. Signs and symptoms which may be seen, usually within 12 hours following overexposure, may include, but may not be limited to, headache, dizziness, weakness, constriction of the pupil of the eye, blurred or dark vision, excessive salivation or nasal discharge, profuse sweating, abdominal cramps, nausea and vomiting. Incontinence, unconsciousness and convulsions indicate severe poisoning. In untreated severe poisoning, respiratory depression or cardiac arrest may be fatal. Repeated exposure may result in depletion of cholinesterase. Additional slight exposure may result in signs and symptoms. Note to Physician: Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (PROTOPAM) is also antidotal and may be used in conjunction with atropine but should not be used alone. For emergency information, call (510) 233-3737 or (800) 457-2022.

This product contains acephate. There is no substantiated evidence that acephate has caused cancer, long-term health, mutagenic, or reproductive problems in humans. When mice were fed diets containing acephate throughout their entire lifetime, a compound-related increase in liver weight, together with liver carcinoma (a commonly occurring cancer in mice) occurred in high-dose females. These changes were not observed in the males at any dose level or in low- or mid-dose females. When rats were fed diets containing acephate throughout their entire lifetime, there was no treatment-related increase in tumors at any site. The most significant treatment-related effect was a decrease in cholinesterase activity of plasma, RBC, and brain.

Acephate has been shown to have a weak potential to cause mutations when

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tested in microbes or cultured cells and in some studies using mice. However, the results of most live animal studies indicate that acephate does not cause mutations in whole animals.

When male and female rats were fed acephate continuously for two generations through weaning of the third generation, animals in the mid- and high-dose groups demonstrated compound-related effects on reproductive performance. The low-dose was judged to be a no-effect level. There is no evidence that acephate causes birth defects.

The significance of the above-mentioned results cannot be fully evaluated for humans. However, based on the dose-response observed in these studies and risk evaluation of the results, it is concluded that the risk of developing cancer or other adverse health effects is minimal if one follows the precautions outlined on the product label, material safety data sheet and any plant safety instructions.

Acephate did not induce a positive skin sensitization reaction in the guinea pig using the Modified Buehler or the Maximization techniques.

The above information is based on the data of which we are aware and is believed to be correct as of the date hereof. Since this information may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modification of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.

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