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Revision Number 1

SAFETY DATA SHEET

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Identifier

Product Name **SHIELD 2EC 30'S KOSHER**

Other means of identification

Product Code 2150204
CAS Number Mixture
Formula Not available
Synonyms Isopropyl N- (3-chlorophenyl) carbamate; Isopropyl 3-chlorobanilate;
Chlorpropham
UN-No UN1993
EPA Registration Number 2749-519-34704

Recommended use of the chemical and restrictions on use

Recommended Use Agriculture
Uses advised against Do not use where contact with food or drinking water is possible. Avoid prolonged contact with eyes, skin, and clothing.

Details of the supplier of the safety data sheet

Supplier Address ACETO LIFE SCIENCES, LLC
4 Tri Harbor Court
Port Washington, NY 11050-4661
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: aceto@aceto.com

Emergency telephone number(s)

ChemTrec: 1-800-424-9300 Outside of the United States: 1-703-527-3887

2. HAZARDS IDENTIFICATION

Classification

Label elements

Emergency Overview

Appearance Pale Yellow liquid	Physical State Liquid	Odor Alcohol
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Hazards not otherwise classified (HNOC)

None known

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS**Synonyms** Isopropyl N- (3-chlorophenyl) carbamate; Isopropyl 3-chlorobanilate; Chlorpropham**Formula** Not available

Chemical name	CAS No.	Weight-%	North American Hazard Indicator
Chlorpropham	101-21-3	25	Supplement 7 [1987]; Monograph 12 [1976]
Isopropyl Alcohol	67-63-0	15	1 400 ppm TWA; 980 mg/m ³ TWA 400 ppm STEL 200 ppm TWA Monograph 71 [1999]; Supplement 7 [1987]; Monograph 15 [1977]
Other Ingredients	N/A	60	False

4. FIRST AID MEASURES**First Aid Measures**

General Advice Show this safety data sheet to the doctor in attendance.

Eye Contact Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Consult a physician.

Skin Contact Wash off immediately with plenty of water. Wash contaminated clothing before reuse. Consult a physician.

Inhalation Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Consult a physician.

Ingestion Rinse mouth. Never give anything by mouth to an unconscious person. Consult a physician.

Self-Protection of the First Aider Use personal protective equipment as required. Avoid contact with eyes, skin and clothing.

Most important symptoms and effects, both acute and delayed**Signs and Symptoms** No information available.**Indication of any immediate medical attention and special treatment needed****Notes to Physician** Treat symptomatically.**5. FIRE-FIGHTING MEASURES****Suitable Extinguishing Media**Water spray. Carbon dioxide (CO₂). Foam. Dry powder. Dry chemical. Alcohol-resistant foam.

Unsuitable Extinguishing Media

No information available.

Hazardous Combustion Products

Chloroaniline, isocyanates, oxides of nitrogen, chlorine-containing compounds and other unknown hazardous material may be formed. Incomplete combustion may lead to formation of carbon monoxide and/or other asphyxiants.

Explosion Data

Not available

Sensitivity to mechanical impact Not available.**Sensitivity to static discharge** Not available.**Specific Hazards Arising from the Chemical**

Keep product and empty container away from heat and sources of ignition. 274, 601, 640C.

Protective Equipment and Precautions for Firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures**Personal Precautions**

Evacuate personnel to safe areas. Ensure adequate ventilation. Use personal protective equipment as required. Avoid contact with eyes, skin and clothing. In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental Precautions

Local authorities should be advised if significant spillages cannot be contained. Prevent further leakage or spillage if safe to do so. Do not allow into any sewer, on the ground or into any body of water. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system. Should not be released into the environment.

Methods and material for containment and cleaning up**Methods for Clean-up**

Pick up and transfer to properly labelled containers.

7. HANDLING AND STORAGE

Precautions for safe handling**Handling**

Use only in an area equipped with a safety shower. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation. Do not breathe vapours/dust. Avoid contact with eyes, skin and clothing. Avoid repeated exposure.

Conditions for safe storage, including any incompatibilities**Storage**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep in properly labeled containers.

Incompatible Materials

Strong oxidizing agents. Acids. Bases.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chlorpropham	-	-	-

Chemical name	ACGIH TLV	OSHA PEL	NIOSH IDLH
101-21-3			
Isopropyl Alcohol 67-63-0	492 mg/m ³	980 mg/m ³	2000 ppm IDLH (10% LEL)
Other Ingredients N/A	-	-	-

Appropriate engineering controls**Individual protection measures, such as personal protective equipment**

Eye/Face Protection	Tight sealing safety goggles.
Skin and body protection	Use suitable eye protection and gloves.
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment.

General Hygiene Considerations Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Pale Yellow liquid
Physical State	Liquid
Odor	Alcohol
Color	Pale Yellow
Odor Threshold	No information available

<u>Property</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No Data Available	
Melting point / Freezing point	No Data Available	Literary Reference
Boiling point / boiling range	No information available	
Flash Point	30 °C / 86 °F	No information available
Evaporation Rate	No information available	
Flammability (solid, gas)	No information available	
Flammability Limit in Air	No information available	
Upper flammability limit	No information available	
Lower flammability limit	Not available	
Vapor Pressure	32.4 mm/Hg @ 20 C	
Vapor Density	Not available	
Specific Gravity	1.0 g/ml	
Water Solubility	No information available	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water	Not available	
Autoignition temperature °C	No Data Available	Estimated
Decomposition temperature	No Data Available	
Kinematic Viscosity	No information available	
Dynamic Viscosity	Not available	
Explosive Properties	No information available	
Oxidizing Properties	No information available	

Other Information

Softening Point	No information available
Molecular Weight	No information available
VOC content	No information available
Liquid Density	No information available

Bulk density 8.35 lbs/gallon
Corrosion characteristics No information available

10. STABILITY AND REACTIVITY

Reactivity Not applicable.

Chemical Stability Stable under recommended storage conditions

Conditions to Avoid Heat, flames and sparks.

Incompatible Materials Strong oxidizing agents. Acids. Bases.

Hazardous Decomposition Products Chloroaniline, isocyanates, oxides of nitrogen, and chlorine-containing compounds may form in a fire.

Possibility of Hazardous Reactions None under normal processing

11. TOXICOLOGICAL INFORMATION

Product Information No information or data specific to the product on this toxicological (health) effect is available

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Chlorpropham	= 4,200 mg/kg (Rat)	>2,000 mg/kg (Rat)	>0.5 mg/L (4H) (nose only)
Isopropyl Alcohol	-	-	-
Other Ingredients	-	-	-

Information on likely routes of exposure

Symptoms related to the physical, chemical and toxicological characteristics

Symptoms No information available.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chemical name	ACGIH	IARC	NTP	OSHA
Chlorpropham 101-21-3	-	-	-	-
Isopropyl Alcohol 67-63-0	A4 - Not Classifiable as a Human Carcinogen	Group 3	-	X
Other Ingredients N/A	-	-	-	-

Serious eye damage/irritation No information available.

Skin Corrosion/Irritation No information available.

Sensitization No information available.

Reproductive Effects No information available.

Mutagenic Effects No information available.

Developmental Effects No information available.

STOT - single exposure No information available.

STOT - Repeated Exposure No information available.

Aspiration Hazard No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Avoid release to the environment

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Chlorpropham 101-21-3	-	-	-	-
Isopropyl Alcohol 67-63-0	1000: 72 h Desmodesmus subspicatus mg/L EC50 1000: 96 h Desmodesmus subspicatus mg/L EC50	-	-	-
Other Ingredients N/A	EC50 (72 h) 4.5 mg/l (growth rate), Green Algae	LC50 (96 h) > 120mg/l, Oncorhynchus mykiss (Rainbow Trout) and Bluegill Sunfish	-	EC50 (48 h) 900 mg/l, Daphnia magna (water flea)

Persistence/Degradability No information available.

Bioaccumulation/Accumulation No information available.

Mobility in Soil No information available.

Chemical name	log Pow =
Chlorpropham 101-21-3	-
Isopropyl Alcohol 67-63-0	-
Other Ingredients N/A	-

Other adverse effects No information available

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal Methods Contact waste disposal services. Dispose of in accordance with local regulations.

Contaminated Packaging Dispose of in accordance with local regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. TRANSPORT INFORMATION

DOT

UN-No	UN1993
Proper Shipping Name	FLAMMABLE LIQUIDS, N.O.S.
Hazard class	3
Packing Group	II
DOT Marine Pollutant	NP.

Description	UN1993, FLAMMABLE LIQUIDS, N.O.S. (Chlorpropham, Isopropyl Alcohol), 3, II
Emergency Response Guide Number	128
<u>TDG</u>	
UN-No	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	II
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Other Ingredients, Chlorpropham), 3, II
<u>MEX</u>	
UN-No	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	II
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Other Ingredients, Chlorpropham), 3, II
<u>ICAO</u>	
UN-No	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard class	3
Packing Group	II
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Other Ingredients, Chlorpropham), 3, II
<u>IATA</u>	
UN number	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Transport hazard class(es)	3
Packing Group	II
Description	UN1993, Flammable liquid, n.o.s. (Other Ingredients, Chlorpropham), 3, II
<u>IMDG</u>	
UN number	UN1993
Proper Shipping Name	Flammable liquid, n.o.s.
Transport hazard class(es)	3
Packing Group	II
EmS No.	F-E, S-E
Description	UN1993, Flammable liquid, n.o.s. (Other Ingredients, Chlorpropham), 3, II
<u>RID</u>	
UN-No	UN1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class(es)	3
Packing Group	II
Classification Code	F1
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Other Ingredients, Chlorpropham), 3, II
ADR/RID-Labels	3
<u>ADR</u>	
UN-No	1993
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Hazard Class	3
Packing Group	II
Classification Code	F1
Tunnel Restriction Code	(D/E)
Description	1993, FLAMMABLE LIQUID, N.O.S. (Other Ingredients, Chlorpropham), 3, II
Labels	3
<u>ADN</u>	
Proper Shipping Name	FLAMMABLE LIQUID, N.O.S.
Transport hazard class(es)	3

Packing Group	II
Classification Code	F1
Special Provisions	274, 601, 640C
Description	UN1993, FLAMMABLE LIQUID, N.O.S. (Other Ingredients, Chlorpropham), 3, II
Hazard label(s)	3
Limited Quantity	1 L
Ventilation	VE01
Equipment Requirements	PP, EX, A

15. REGULATORY INFORMATION

International Inventories

TSCA	Does not comply
Canada (DSL)	Does not comply
EU (EINECS)	Does not comply
EU (ELINCS)	Does not comply
Japan (ENCS)	Does not comply
China (IECSC)	Does not comply
Korea (KECL)	Does not comply
Philippines (PICCS)	Does not comply
Australia (AICS)	Does not comply
Mexico INV	Does not comply
Taiwan INV	Does not comply

Chemical name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)	
Chlorpropham	-	-	X	-	
Isopropyl Alcohol	Present Sunset 06/16/1999	Present	X	-	
Other Ingredients	-	-	-	-	
Component	Japan (ENCS)	China (IECSC)	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
-	Present (3)-3217	Present	Present	-	Present
-	Present (2)-207	Present	Present	Present	Present
-	-	-	-	-	-
Chemical name	Mexico INV		Taiwan INV		
Chlorpropham 101-21-3	Present		Present		
Isopropyl Alcohol 67-63-0	Present		Present		
Other Ingredients N/A	-		-		

In the United States this product is regulated by the US Environmental Protection Agency (EPA) under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA. This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required by Safety Data Sheets, and for workplace labels of non-pesticide chemicals.

Federal Regulations

Component	TSCA Listing
Isopropyl Alcohol 67-63-0 (15)	40 CFR 799.2325

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Component	SARA 313 - Threshold Values
Isopropyl Alcohol 67-63-0 (15)	1.0 % de minimis concentration (only if manufactured by the strong acid process, no supplier notification)

SARA 311/312 Hazard Categories

Acute Health Hazard	No
Chronic Health Hazard	No
Fire Hazard	No
Sudden Release of Pressure Hazard	No
Reactive Hazard	No

Clean Air Act, Section 112 Hazardous Air Pollutants (HAPs) (see 40 CFR 61)

This product does not contain any HAPs.

VOC content

This Product does not contain any VOCs

Chemical name	CAS No.	VOCs
Isopropyl Alcohol	67-63-0	Present

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Chlorpropham 101-21-3	-	-	-	-
Isopropyl Alcohol 67-63-0	-	-	-	-
Other Ingredients N/A	-	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical name	CERCLA/SARA Hazardous Substances	CERCLA/SARA RQ	RQ
Chlorpropham 101-21-3	-	-	-
Isopropyl Alcohol 67-63-0	-	-	-
Other Ingredients N/A	-	-	-

State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

State Right-to-Know

This product does not contain any State Right-to-Know chemicals.

Chemical name	New Jersey	Massachusetts	Illinois	Rhode Island	Pennsylvania
Chlorpropham 101-21-3	-	-	-	-	-
Isopropyl Alcohol 67-63-0	sn 1076	Present	-	-	Environmental hazard Special hazardous substance
Other Ingredients N/A	-	-	-	-	-

U.S. EPA Label Information

EPA Pesticide Registration Number Not applicable

Canada

WHMIS Statement

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all the information required by the CPR.

16. OTHER INFORMATION

NFPA

Health 1

Flammability 1

Instability 0

Physical Hazard 0



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Not available

Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

End of Safety Data Sheet