




Material Safety Data Sheet

NFPA	Transport Symbol
	

Preparation Date 22-May-2006

Revision Date 22-May-2006

Revision Number 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name SHIELD E.C.
Product Code 2150800
Synonyms Shield Potato Spout Inhibitor containing Chlorophropham
Formula Mixture
CAS Number 101-21-3
EPA Registration Number 2749-70
Contact Manufacturer
ACETO CORPORATION
One Hollow Lane
Lake Success, NY 11042-1215
Phone: (516) 627-6000
Fax: (516) 627-6093
Email: regulatory@aceto.com
ChemTrec Emergency Telephone Numbers 1-800-424-9300
1-703-527-3887

2. HAZARDS IDENTIFICATION

Emergency Overview

Harmful by inhalation, in contact with skin and if swallowed. May cause irritation of respiratory tract. May cause irritation of the mucous membranes. May cause eye/skin irritation. Substances which cause concern for man owing to possible carcinogenic effects but for which the available information is not adequate for making a satisfactory assessment. Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Appearance Clear, Amber.

Physical State Liquid.

Odor Not available

OSHA Regulatory Status This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Mexico - Grade Not available

Potential Health Effects

Principle Routes of Exposure Not available

Acute Effects

Eyes Contact with eyes may cause irritation.

Skin	Harmful in contact with skin. Substance may cause slight skin irritation.
Inhalation	Harmful by inhalation. May cause irritation of respiratory tract. May cause irritation of the mucous membranes.
Ingestion	Harmful if swallowed.
Chronic Effects	Substances which cause concern for man owing to possible carcinogenic effects but for which the available information is not adequate for making a satisfactory assessment.

See Section 11 for additional Toxicological information.

Aggravated Medical Conditions Not available

Interactions with Other Chemicals Not available

Potential Environmental Effects Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

CAS Number 101-21-3

Formula Mixture

Hazardous Components

Chemical Name	CAS-No	Weight %
Isopropyl-m-chlorocarbanilate	101-21-3	30 - 60

Non-hazardous Componentets

Chemical Name	CAS-No	Weight %
Other Ingredients	N/A	60 - 100

4. 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. Call a physician immediately.
Skin Contact	Wash off immediately with soap and plenty of water removing all contaminated clothes and shoes. Call a physician immediately.
Inhalation	Move to fresh air. If breathing is difficult, give oxygen. Call a physician immediately.
Ingestion	Do not induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician or Poison Control Centre immediately.
Notes to Physician	Treat symptomatically
Protection of First-aiders	Use personal protective equipment. Avoid contact with skin, eyes and clothing.

5. FIRE-FIGHTING MEASURES

Flammable Properties	Not available
Suitable Extinguishing Media	Water spray. Carbon dioxide (CO ₂). Dry powder. Foam.
Unsuitable Extinguishing Media	Not available
Hazardous Combustion Products	Not available

Explosion Data

Sensitivity to mechanical impact	Not available
Sensitivity to static discharge	Not available

Specific Hazards Arising from the Chemical

Thermal decomposition can lead to release of irritating gases and vapours.

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

NFPA **Health 3** **Flammability 1** **Instability -**

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions	Evacuate personnel to safe areas. Use personal protective equipment. Avoid contact with skin, eyes and clothing. Wear self-contained breathing apparatus and protective suit.
Environmental Precautions	Local authorities should be advised if significant spillages cannot be contained.
Methods for Containment	Not available
Methods for Cleaning up	Evacuate personnel to safe areas. Absorb spill with inert material (e.g. dry sand or earth), then place in a chemical waste container. Clean contaminated surface thoroughly. Prevent product from entering drains.
Other Information	Not applicable

7. HANDLING AND STORAGE

Handling	Use only in an area equipped with a safety shower. Ensure adequate ventilation. Do not breathe vapours or spray mist. Avoid contact with skin, eyes and clothing.
Storage	Keep containers tightly closed in a dry, cool and well-ventilated place.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines	This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.
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Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal Protective Equipment

Eye/face Protection Tightly fitting safety goggles.

Skin Protection Protective gloves. Long sleeved clothing.

Respiratory Protection In case of insufficient ventilation wear suitable respiratory equipment.

General Hygiene Considerations

General industrial hygiene practice. Contaminated work clothing should not be allowed out of the workplace. Avoid contact with skin, eyes and clothing. For environmental protection remove and wash all contaminated protective equipment before re-use. Wash hands before breaks and at the end of workday.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Clear, Amber	
Physical State	Liquid	
Odor	Not available	
pH	Not available	
Flash Point	> 201°F	
Method	Closed cup	
Autoignition Temperature	Not available	
Boiling Point/Range	Not available	
Melting Point/Range	Not available	
Flammability Limits in Air	Lower Not available	Upper Not available
Vapor Pressure	Not available	
Vapor Density	Not available	
Specific Gravity	0.994 g/mL@25°C	
Density	8.29 lb/gal@25°C	
Water Solubility	Not available	
Reactivity in Water	Not available	
Molecular Weight	Not available	

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal conditions.
Conditions to Avoid	Heat, flames and sparks
Incompatible Materials	Strong oxidizing agents. Strong bases.
Hazardous Decomposition Products	Carbon monoxide, Carbon dioxide (CO ₂), Nitrogen oxides (NO _x), Hydrogen chloride gas, Chloroanilines, Isocyanates.
Possibility of Hazardous Reactions	None under normal processing

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Component Information

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Isopropyl-m-chlorocarbanilate	1200 mg/kg Rat		

Chronic Toxicity

Carcinogenicity	Substances which cause concern for man owing to possible carcinogenic effects but for which the available information is not adequate for making a satisfactory assessment.
Irritation	Not available
Corrosivity	Not available
Sensitization	Not available
Neurological Effects	Not available
Mutagenic Effects	Not available
Reproductive Effects	Not available
Developmental Effects	Not available
Target Organ Effects	Not available

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Persistence / Degradability	Not available
Bioaccumulation / Accumulation	Not available.
Mobility in Soil	Not available

13. DISPOSAL CONSIDERATIONS

Waste Disposal Method	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 for local recycling, recovery or waste disposal.
US EPA Waste Number	Not available

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
UN-No	UN3082
Packing Group	III
Description	Environmentally hazardous substances, liquid, n.o.s.(Isopropyl-m-chlorocarbanilate),9,UN3082,PG III

TDG

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
UN-No	UN3082
Packing Group	III

MEX

Hazard Class	9
UN-No	UN3082
Packing Group	III
Description	UN3082 Environmentally hazardous substance, liquid, n.o.s.(Isopropyl-m-chlorocarbanilate),9,III

ICAO

UN-No	UN3082
Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
Packing Group	III
Description	Environmentally hazardous substance, liquid, n.o.s.*(Isopropyl-m-chlorocarbanilate),9,UN3082,PG III

IATA

UN-No	UN3082
Hazard Class	9
Packing Group	III
ERG Code	9L
Description	Environmentally hazardous substance, liquid, n.o.s.*(Isopropyl-m-chlorocarbanilate),9,UN3082,PG III

IMDG/IMO

Hazard Class	9
UN-No	UN3082
Packing Group	III
EmS No.	F-A, S-F
Description	Environmentally hazardous substance, liquid, n.o.s.(Isopropyl-m-chlorocarbanilate),9,UN3082,PG III

RID

Hazard Class	9
UN-No	UN3082
Packing Group	III
Classification Code	M6
Description	UN3082 Environmentally hazardous substance, liquid, n.o.s.(Isopropyl-m-chlorocarbanilate),9,III,RID
ADR/RID-Labels	9

ADR

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
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Hazard Class	9
UN-No	UN3082
Packing Group	III
Classification Code	M6
Description	UN3082 Environmentally hazardous substance, liquid, n.o.s.(Isopropyl-m-chlorocarbonilate),9,III,ADR
ADR/RID-Labels	9

ADN

Proper Shipping Name	Environmentally hazardous substance, liquid, n.o.s
Hazard Class	9
Packing Group	III

15. REGULATORY INFORMATION**International Inventories**

U.S.A. (TSCA)	Does not Comply
Canada (DSL)	Does not Comply
EU (ELINCS)	Does not Comply
EU (EINECS)	Does not Comply
Japan (ENCS)	Does not Comply
China	Does not Comply
Korea (KECL)	Does not Comply
Philippines (PICCS)	Does not Comply
Australia (AICS)	Does not Comply

Chemical Name	U.S.A. (TSCA)	Canada (DSL)	EU (EINECS)	EU (ELINCS)
Isopropyl-m-chlorocarbonilate	-	-	X	-
Other Ingredients	-	-	-	-

Chemical Name	Japan (ENCS)	China	Korea (KECL)	Philippines (PICCS)	Australia (AICS)
Isopropyl-m-chlorocarbonilate	X	X	X	-	X
Other Ingredients	-	-	-	-	-

USA**Federal Regulations****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.

SARA 311/312 Hazardous Categorization

Acute Health Hazard	-
Chronic Health Hazard	-
Fire Hazard	-
Sudden Release of Pressure Hazard	-
Reactive Hazard	-

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

This product does not contain any HAPs.

State Regulations**California Proposition 65**

This product does not contain any Proposition 65 chemicals.

State Right-to-Know**Canada**

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

WHMIS Hazard Class

Not determined

16. OTHER INFORMATION

Prepared By	Environmental Health and Safety, Regulatory Affairs
Preparation Date	22-May-2006
Revision Date	22-May-2006
Revision Summary	Not available

Disclaimer

The information provided on this MSDS 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.

End of MSDS