# SAFETY DATA SHEET



Issuing Date 06-Jul-2009 Revision Date 01-Feb-2018 Revision Number 3

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

#### **Product Identifier**

Product Name SHIELD E.C.

## Other means of identification

Product Code 2150800 CAS Number 101-21-3 Formula Mixture

Synonyms Shield Potato Spout Inhibitor containing Chlorophropham

**EPA Registration Number** 2749-70

## Recommended use of the chemical and restrictions on use

Recommended Use Agriculture

**Uses advised against** Avoid contact with food. Avoid prolonged contact with eyes, skin, and clothing.

## Details of the supplier of the safety data sheet

Supplier Address ACETO AGRICULTURAL CHEMICALS CORPORATION

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

Acute toxicity - Oral	Category 4
Skin Corrosion/Irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Carcinogenicity	Category 2
Specific target organ toxicity (repeated exposure)	Category 2

## Label elements

## **Emergency Overview**

#### Signal Word

## Warning

#### Hazard statements

Harmful if swallowed

Causes skin irritation

Causes eye irritation

Suspected of causing cancer

May cause damage to organs through prolonged or repeated exposure

Toxic to aquatic life with long lasting effects



AppearancePhysical StateOdorClear AmberLiquidNo information available

#### **Precautionary Statements - Prevention**

Obtain special instructions before use

Do not handle until all safety precautions have been read and understood

Use personal protective equipment as required

Wash face, hands and any exposed skin thoroughly after handling

Do not eat, drink or smoke when using this product

Do not breathe dust/fume/gas/mist/vapors/spray

#### **Precautionary Statements - Response**

IF exposed or concerned: Get medical advice/attention

Specific treatment (see supplemental first aid instructions on this label)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash with plenty of soap and water

If skin irritation occurs: Get medical advice/attention

Take off contaminated clothing and wash before reuse

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

#### **Precautionary Statements - Storage**

Store locked up

## **Precautionary Statements - Disposal**

Dispose of contents/container to an approved waste disposal plant

#### Hazards not otherwise classified (HNOC)

None known

Other Information

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

**Synonyms** 

Shield Potato Spout Inhibitor containing Chlorophropham

Formula Mixture

Chemical Name	CAS No	Weight-%	North American Hazard Indicator
Chlorpropham	101-21-3	36	Supplement 7 [1987]; Monograph 12 [1976]
Other Ingredients	N/A	64	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. Call

a physician or poison control center immediately.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Wash contaminated clothing before reuse. Call a physician or poison

control center immediately.

**Inhalation** Remove to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial

respiration. Call a physician or poison control center immediately.

**Ingestion** Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious

person. Call a physician or poison control center immediately.

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

<u>Suitable Extinguishing Media</u> Water spray. Carbon dioxide (CO2). Dry powder. Foam.

<u>Unsuitable Extinguishing Media</u>
No information available.

Hazardous Combustion Products

Thermal decomposition or combustion may produce hazardous

gases and/or materials.

Explosion Data Not available

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.

## 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal Precautions Evacuate personnel to safe areas. 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. 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** Evacuate personnel to safe areas. Sweep up and shovel into suitable containers for

disposal. Avoid dust formation. Clean contaminated surface thoroughly. Prevent product

from entering drains.

#### 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 or spray mist. Avoid contact with eyes, skin and clothing. Avoid repeated exposure. In case of insufficient ventilation, wear suitable respiratory equipment.

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. Keep out of the reach of children.

**Incompatible Materials** Strong Acids. Strong bases.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<u>Exposure Guidelines</u>

This product, as supplied, does not contain any hazardous materials with occupational

exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Chlorpropham 101-21-3	-	-	-
Other Ingredients N/A	-	-	-

#### **Appropriate engineering controls**

**Engineering Controls** Ensure adequate ventilation, especially in confined areas.

## Individual protection measures, such as personal protective equipment

**Eye/Face Protection** Tight sealing safety goggles.

**Skin and body protection** Impervious gloves. Gloves must be inspected prior to use. Use proper glove removal

technique (without touching glove's outer surface) to avoid skin contact with this product. The type of protective equipment must be selected according to the concentration and

amount of dangerous substance at the specific workplace.

**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 eyes, skin 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.

**Estimated** 

## 9. PHYSICAL AND CHEMICAL PROPERTIES

#### Information on basic physical and chemical properties

Appearance Clear Amber
Physical State Liquid

Odor No information available 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 > 94 °C / 201 °F PMCC

Evaporation Rate Flammability (solid.

Flammability (solid, gas)
Flammability Limit in Air

Upper flammability limit No information available

Lower flammability limit Not available

Vapor Pressure No information available

Vapor DensityNot availableSpecific Gravity0.994 g/mL@25°CWater SolubilityNo information availableSolubility in other solventsNo information available

Partition coefficient: n-octanol/waterNot available
Autoignition temperature °C
No data available
No data available

**Decomposition temperature**Kinematic Viscosity
No data available
No information available

Dynamic Viscosity Not available

**Explosive Properties**No information available
Oxidizing Properties
No information available

**Other Information** 

Softening Point
Molecular Weight
VOC content
Density
No information available
8.29 lb/gal@25°C
No information available
No information available
No information available
No information available

## 10. STABILITY AND REACTIVITY

**Reactivity** Not applicable.

Chemical Stability Stable under normal conditions

Hazardous Polymerization Hazardous polymerization does not occur

Conditions to AvoidHeat, flames and sparks.Incompatible MaterialsStrong Acids. Strong bases.

Hazardous Decomposition Products Carbon monoxide. Carbon dioxide (CO2). Nitrogen oxides (NOx).

Hydrogen chloride gas. Chloroanilines. Isocyanates.

Possibility of Hazardous Reactions

None under normal processing

#### 11. TOXICOLOGICAL INFORMATION

**Product Information** 

 Oral LD50
 > 2,000 mg/kg; (rat)

 Dermal LD50
 > 2,000 mg/kg; (rabbit)

 LC50 Inhalation:
 > 2.10 mg/L; 4H; (rat)

#### **Component Information**

The following values are calculated based on chapter 3.1 of the GHS document .

#### Information on likely routes of exposure

**Eyes** Minimal irritation. Avoid contact with eyes.

Skin Harmful in contact with skin. Substance may cause slight skin irritation. Avoid contact with

skin.

**Inhalation** Harmful by inhalation. May cause irritation of the mucous membranes. May cause irritation

of respiratory tract.

Ingestion Harmful if swallowed. Harmful: danger of serious damage to health by prolonged exposure

if swallowed.

## Information on toxicological effects

**Symptoms** No information available.

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

**Carcinogenicity** Limited evidence of a carcinogenic effect.

**Serious eye damage/irritation** Minimal irritation. Rabbit eye.

**Skin Corrosion/Irritation** Slight irritant. Rabbit skin.

Sensitization Not a sensitizer.

**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.

**Chronic Toxicity** Limited evidence of a carcinogenic effect. Avoid repeated exposure.

**Aspiration Hazard** No information available.

#### Numerical measures of toxicity - Product Information

**Acute Toxicity** 

 $\begin{array}{lll} \textbf{Oral LD50} & > 2,000 \text{ mg/kg (rat)} \\ \textbf{Dermal LD50} & > 2,000 \text{ mg/kg (rabbit)} \\ \textbf{LC50 Inhalation:} & > 2.10 \text{ mg/L 4H (rat)} \\ \end{array}$ 

## 12. ECOLOGICAL INFORMATION

#### **Ecotoxicity**

Toxic to aquatic life with long lasting effects

Persistence/Degradability No information available.

Bioaccumulation/Accumulation Not available.

Mobility in Soil 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.

## 14. TRANSPORT INFORMATION

DOT Not regulated TDG Not regulated Not regulated MEX **ICAO** Not regulated Not regulated IATA IMDG/IMO Not regulated RID Not regulated ADR Not regulated Not regulated ADN

## 15. REGULATORY INFORMATION

## International Inventories

U.S.A. (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 (D	Canada (DSL) EU (		EINECS)		EU (ELINCS)		
Chlorpropham	=	-	-		X		-		
Other Ingredients	-	-	-		-		-		
Component	Japan (ENCS)	China (IECSC)	Korea	Korea (KECL) Pl		CCS)	Australia (AICS)		
Chlorpropham 101-21-3 ( 36 )	Present (3)-3217	Present	Pre	esent	-		Present		
Other Ingredients N/A (64)	-	-					-		
Chemica	nical Name Mexico INV		NV T		Taiw	aiwan INV			
Chlorpro 101-2	•		Present		Present		Pre	Present	
Other Ing N/			-				-		

This material as a whole is exempt from the TSCA Inventory, FIFRA Regulated Pesticides, and Canadian PMRA Regulations.

## 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 Hazard Categories

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

## **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)

## **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

## 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.

#### 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 MSDS contains all the information required by the CPR.

NFPA Health 3 Flammability 1 Instability 0 Physical Hazard 0



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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**