SAFETY DATA SHEET

Issuing Date 02-Sept-2014 **Revision Date** 21-Jul-2015 **Revision Number 2**

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

Product identifier **Item Nos. F39, PARABC**

Product Name **Enoz Moth Ice Crystals**

Other means of identification **EPA Reg. No. 1475-1**

Synonyms These products are pesticides registered by U.S. EPA. It is a violation of Federal law to use these products in a manner inconsistent with the product label.

Recommended use of the chemical and restrictions on use

Recommended Use Insecticide/Larvicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Name Willert Home Products, Inc.
Supplier Address 4044 Park Avenue,
Saint Louis, Missouri 63110 USA
Supplier Phone Number Phone:314-772-2822
(8:30 AM to 4:30 PM CST)
Supplier Email whpcustomerservice@willert.com
Emergency telephone number CHEMTREC 800-424-9300

2. HAZARDS IDENTIFICATION

Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Serious eye damage/eye irritation	Category 2
Carcinogenicity	Category 1B

GHS Label elements, including precautionary statements

Emergency Overview

Signal word Danger

Hazard statements
Causes serious eye irritation
May cause cancer

Appearance White crystalline **Physical State** Solid **Odor** Characteristic Mothball

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

Precautionary Statements - Response
IF exposed or concerned: Get medical advice/attention

Precautionary Statements - Storage
Store locked up

Precautionary Statements - Disposal
Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)
- Although this product is solid, it can melt and become a combustible liquid at high temperatures (>61 °C/ 141.8 °F). All precautions for combustible liquids should be taken.

Other information
- Very toxic to aquatic life with long lasting effects

Interactions with Other Chemicals No information available.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	CAS-No	Weight %	Trade Secret
p-Dichlorobenzene	106-46-7	99 - 100	N/A
o-Dichlorobenzene	95-50-1	0.1 - 1	*

* The exact percentage (concentration) of composition has been withheld as a trade secret

4. FIRST AID MEASURES

First aid measures

General Advice Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye Contact	If symptoms persist, call a physician. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if applicable, and continue flushing. Keep eye wide open while rinsing. Do not rub affected area.
Skin Contact	Wash skin with soap and water. In the case of skin irritation or allergic reactions see a physician. Wash off with warm water and soap.
Inhalation	Move to fresh air. If not breathing, give artificial respiration. Administer oxygen if breathing is difficult and you are trained.
Ingestion	Do NOT induce vomiting. Clean mouth with water and afterwards drink plenty of water. Never give anything by mouth to an unconscious person. Consult a physician.
Protection of First-aiders	Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Remove all sources of ignition. Use personal protective equipment. For personal protection see Section 8.

Most important symptoms and effects, both acute and delayed

Most Important Symptoms/Effects 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
Dry chemical, CO_2, water spray or regular foam. Water spray, fog or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal.

Unsuitable Extinguishing Media
Do not scatter spilled material with high pressure water streams.

Specific Hazards Arising from the Chemical
Some may burn but none ignite readily. Risk of ignition. Keep product and empty container away from heat and sources of ignition. In the event of fire, cool tanks with water spray Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations

Uniform Fire Code Irritant: Solid

Hazardous Combustion Products
Carbon oxides.

Explosion Data
Sensitivity to Mechanical Impact No

Sensitivity to Static Discharge Yes

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 Do not touch or walk through spilled material. Stop leak if you can do it without risk. Evacuate personnel to safe areas. Use personal protective equipment. Refer to Section 8 Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Remove all sources of ignition. Take precautionary measures against static discharges.

Other Information Refer to protective measures listed in Sections 7 and 8.

Environmental precautions

Environmental Precautions Prevent entry into waterways, sewers, basements or confined areas. Refer to protective measures listed in Sections 7 and 8. Prevent further leakage or spillage if safe to do so.

Methods and material for containment and cleaning up

Methods for Containment Prevent dust cloud.

Methods for Cleaning Up With clean shovel place material into clean, dry container and cover loosely; move containers from spill area. Take up with sand or other noncombustible absorbent material and place into containers for later disposal. Take precautionary measures against static discharges. Pick up and transfer to properly labeled containers.

7. HANDLING AND STORAGE

Precautions for safe handling

Handling Do not breathe vapors, mist or gas. Wear personal protective equipment. Avoid contact with skin and eyes. Keep away from heat, sparks and open flame. No smoking. Use only in area provided with appropriate exhaust ventilation. Keep in an area equipped with sprinklers Use according to package label instructions

Conditions for safe storage, including any incompatibilities

Storage Keep away from heat and sources of ignition. Keep containers tightly closed in a cool, well-ventilated place. Keep in properly labeled containers.

Incompatible Products None known based on information supplied.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
p-Dichlorobenzene 106-46-7	TWA: 10 ppm	TWA: 75 ppm TWA: 450 mg/m^3 (vacated) TWA: 75 ppm (vacated) TWA: 450 mg/m^3 (vacated) STEL: 110 ppm (vacated) STEL: 675 mg/m^3	IDLH: 150 ppm
o-Dichlorobenzene 95-50-1	STEL: 50 ppm TWA: 25 ppm	(vacated) Ceiling: 50 ppm (vacated) Ceiling: 300 mg/m^3 Ceiling: 50 ppm Ceiling: 300 mg/m^3	IDLH: 200 ppm Ceiling: 50 ppm Ceiling: 300 mg/m^3

ACGIH TLV: American Conference of Governmental Industrial Hygienists - Threshold Limit Value. OSHA PEL: Occupational Safety and Health Administration - Permissible Exposure Limits. NIOSH IDLH: Immediately Dangerous to Life or Health.

Other Exposure Guidelines Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Measures
Showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/Face Protection If splashes are likely to occur, wear: Safety glasses with side-shields. None required for consumer use.

Skin and Body Protection Wear protective gloves/clothing.

Respiratory Protection No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures Handle in accordance with good industrial hygiene and safety practice. Do not eat, drink or smoke when using this product.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

Physical State	Solid		
Appearance	White crystalline	**Odor**	Characteristic mothball
Color	No information available	**Odor Threshold**	No information available

Property	**Values**	**Remarks/ Method**
pH	N/A	None known
Melting/freezing point	No data available	None known
Boiling Point/Range	No data available	None known
Flash Point	65C / 149F	None known
Evaporation rate	No data available	None known
Flammability (solid, gas)	No data available	None known
Flammability Limits in Air		
Upper flammability limit	No data available	
Lower flammability limit	No data available	
Vapor pressure	No data available	None known
Vapor density	No data available	None known
Specific Gravity	No data available	None known
Water Solubility	No data available	None known
Solubility in other solvents	No data available	None known
Partition coefficient: n-octanol/water		None known
Autoignition temperature		None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity		None known
Explosive Properties	No data available	
Oxidizing Properties	No data available	

Other Information

Softening Point	No data available
VOC Content (%)	No data available

10. STABILITY AND REACTIVITY

Reactivity
No data available.

Chemical stability
Stable under recommended storage conditions.

Possibility of Hazardous Reactions
None under normal processing.

Hazardous Polymerization
Hazardous polymerization does not occur.

Conditions to avoid
Heat, flames and sparks.

Incompatible materials
None known based on information supplied.

Hazardous Decomposition Products
Carbon oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Product Information

Inhalation There is no data available for this product. May cause irritation of respiratory tract.

Eye Contact There is no data available for this product. Expected to be an irritant based on components. May cause redness, itching, and pain. May cause temporary eye irritation.

Skin Contact There is no data available for this product. May cause irritation. Prolonged contact may cause redness and irritation.

Ingestion There is no data available for this product. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea.

Chemical Name	LD50 Oral	LD50 Dermal	LC50 Inhalation
o-Dichlorobenzene 95-50-1	= 500 mg/kg (Rat)	> 10 g/kg (Rabbit)	= 8.15 mg/L (Rat) 4 h

Information on toxicological effects

Symptoms May cause redness and tearing of the eyes.

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

Sensitization No information available.

Mutagenic Effects No information available.

Carcinogenicity The table below indicates whether each agency has listed any ingredient as a carcinogen.

Chemical Name	ACGIH	IARC	NTP	OSHA
p-Dichlorobenzene 106-46-7	A3	Group 2A Group 2B	Reasonably Anticipated	X
o-Dichlorobenzene 95-50-1		Group 3		

ACGIH: (American Conference of Governmental Industrial Hygienists)
A3 - Animal Carcinogen
IARC: (International Agency for Research on Cancer)
Group 2A - Probably Carcinogenic to Humans
Group 2B - Possibly Carcinogenic to Humans
Group 3 - Not Classifiable as to Carcinogenicity in Humans
NTP: (National Toxicity Program)
Reasonably Anticipated - Reasonably Anticipated to be a Human Carcinogen
OSHA: (Occupational Safety & Health Administration)
X - Present

Reproductive Toxicity	No information available
STOT - single exposure	No information available.
STOT - repeated exposure	No information available.
Chronic Toxicity	No known effect based on information supplied. Contains a known or suspected carcinogen May cause adverse liver effects.
Target Organ Effects	Eyes. Respiratory system. Skin. Gastrointestinal tract (GI). Kidney. Liver. Blood.
Aspiration Hazard	No information available.

Numerical measures of toxicity Product Information

12. ECOLOGICAL INFORMATION

This product contains a chemical which is listed as a severe marine pollutant according to DOT

Ecotoxicity

Very toxic to aquatic life with long lasting effects

Persistence and Degradability
No information available.

Bioaccumulation
No information available.

Other Adverse Effects
No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste Disposal Methods This material, as supplied, is a hazardous waste according to federal regulations (40 CFR 261).

Contaminated Packaging Dispose of in accordance with local regulations.

US EPA Waste Number D027 U072

Chemical Name	RCRA	RCRA - Basis for Listing	RCRA - D Series Wastes	RCRA - U Series Wastes
p-Dichlorobenzene 106-46-7	waste number U072	Included in waste streams: F039, K149, K150	= 7.5 mg/L regulatory level	U072
o-Dichlorobenzene 95-50-1	U070	Included in waste streams: F002, F039, K042		U070

Chemical Name	RCRA - Halogenated Organic Compounds	RCRA - P Series Wastes	RCRA - F Series Wastes	RCRA - K Series Wastes
p-Dichlorobenzene 106-46-7	Category II – Semi-volatiles			
o-Dichlorobenzene 95-50-1	Category II - Semi-volatiles			

California Hazardous Waste Codes 232

This product contains one or more substances that are listed with the State of California as a hazardous waste.

Chemical Name	California Hazardous Waste
p-Dichlorobenzene 106-46-7	Toxic
o-Dichlorobenzene 95-50-1	Toxic

14. TRANSPORT INFORMATION

DOT

Proper Shipping Name CONSUMER COMMODITY
Hazard Class ORM-D
Subsidiary Class
Marine Pollutant This product contains a chemical which is listed as a severe marine pollutant according to DOT
Description CONSUMER COMMODITY, ORM-D, MARINE POLLUTANT
Emergency Response Guide Number 171

TDG

UN-No UN3077
Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class 9
Packing Group III
Marine Pollutant This product contains a chemical which is listed as a marine pollutant according to TDG.
Description UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(P-DICHLOROBENZENE, O-DICHLOROBENZENE), 9, III, MARINE POLLUTANT

14. TRANSPORT INFORMATION

MEX

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Description	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(P-DICHLOROBENZENE, O-DICHLOROBENZENE), 9, III, MARINE POLLUTANT

ICAO

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(P-DICHLOROBENZENE, O-DICHLOROBENZENE), 9, III, MARINE POLLUTANT

IATA

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(P-DICHLOROBENZENE, O-DICHLOROBENZENE), 9, III, MARINE POLLUTANT

IMDG/IMO

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
EmS No.	F-A, S-F
Marine Pollutant	Product is a marine pollutant according to the criteria set by IMDG/IMO
Description	UN3077, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(P-DICHLOROBENZENE, O-DICHLOROBENZENE), 9, III, MARINE POLLUTANT

RID

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Classification Code	M7
Description	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(P-DICHLOROBENZENE, O-DICHLOROBENZENE), 9, III, MARINE POLLUTANT

ADR

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Classification Code	M7
Description	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(P-DICHLOROBENZENE, O-DICHLOROBENZENE), 9, III, , MARINE POLLUTANT

ADN

UN-No	UN3077
Proper Shipping Name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazard Class	9
Packing Group	III
Classification Code	M7
Special Provisions	274, 335, 601

14. TRANSPORT INFORMATION

Description	UN3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.(P-DICHLOROBENZENE, O-DICHLOROBENZENE), 9, III, MARINE POLLUTANT
Hazard Labels	9
Limited Quantity	5 kg

15. REGULATORY INFORMATION

International Inventories

TSCA	Complies
DSL	All components are listed either on the DSL or NDSL.

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory
DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

U.S. Federal Regulations

FIFRA

This product is a pesticide 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 for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:
WARNING. Causes substantial but temporary eye injury. Wear protective eyewear. Harmful if swallowed. Harmful if inhaled. Do not get in eyes or on clothing. Avoid contact with skin. Avoid breathing dust. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco or using the toilet. Remove and wash contaminated clothing before reuse.

EPA Pesticide Registration Number: 1475-1

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS-No	Weight %	SARA 313 – Threshold Values %
p-Dichlorobenzene - 106-46-7	106-46-7	99 - 100	0.1
o-Dichlorobenzene - 95-50-1	95-50-1	0.1 - 1	1.0

SARA 311/312 Hazard Categories

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

Clean Water Act

This product contains the following substances which are regulated 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
p-Dichlorobenzene 106-46-7	100 lb	X	X	X
o-Dichlorobenzene 95-50-1	100 lb	X	X	X

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

Chemical Name	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
p-Dichlorobenzene 106-46-7	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ
o-Dichlorobenzene 95-50-1	100 lb		RQ 100 lb final RQ RQ 45.4 kg final RQ

U.S. State Regulations

California Proposition 65

This product contains the following Proposition 65 chemicals:

Chemical Name	California Prop. 65
p-Dichlorobenzene - 106-46-7	Carcinogen

U.S. State Right-to-Know Regulations

Chemical Name	New Jersey	Massachusetts	Pennsylvania
p-Dichlorobenzene 106-46-7	X	X	X
o-Dichlorobenzene 95-50-1	X	X	X

International Regulations

Mexico - Grade Moderate risk, Grade 2

Chemical Name	Carcinogen Status	Exposure Limits
p-Dichlorobenzene	A3	Mexico: TWA 75 ppm Mexico: TWA 450 mg/m^3 Mexico: STEL 110 ppm Mexico: STEL 675 mg/m^3
o-Dichlorobenzene		Mexico: TWA 50 ppm Mexico: TWA 300 mg/m^3

Canada

WHMIS Hazard Class

D2A Very toxic materials

16. OTHER INFORMATION

NFPA **Health Hazard** 2 **Flammability** 2 **Instability** 0 **Physical and Chemical Hazards** -

HMIS **Health Hazard** 2 * **Flammability** 2 **Physical Hazard** 0 **Personal Protection** X

Chronic Hazard Star Legend **Indicates a chronic health hazard.*

Prepared By

Product Stewardship
23 British American Blvd.
Latham, NY 12110
1-800-572-6501

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Revision Note	No information available

General 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