Willowood, LLC

# **SAFETY DATA SHEET**

### Willowood Cloran DF

## Section 1. Identification

GHS product identifier	: Willowood Cloran DF
Chemical name	: Cloransulam methyl
Product code	: Not available.
Other means of identification	: Not available.
EPA Registration Number	: 87290-87
EPA Signal Word Product type	: CAUTION : Solid.

Relevant identified uses	of the substance or mixture	and uses advised against

Identified uses	: Herbicide.
Supplier's details	: Willowood, LLC 1887 Whitney Mesa Drive #9740, Henderson, NV 89014-2069 Tel: 866-3960465 cs@genericcropscience.com
Emergency telephone	: CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-

Emergency telephone	: CHEMTREC, U.S.: 1-800-424-9300 International: +1-703-527-3887
number (with hours of	24/7 Health Emergencies: Call 800-858-7378 (National Pesticide Information Center)
operation)	

# Section 2. Hazards identification

OSHA/HCS status	: This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).
Classification of the substance or mixture	: ACUTE TOXICITY (inhalation) - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Warning
Hazard statements	: H332 - Harmful if inhaled. H410 - Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	<ul> <li>P271 - Use only outdoors or in a well-ventilated area.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing dust.</li> </ul>
Response	<ul> <li>P391 - Collect spillage.</li> <li>P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.</li> </ul>
Storage	: Not applicable.
KMK Regulatory Services	Tel : +1-888-GHS-7769 (447-7769) / +1-450-GHS-7767 (447-7767)       1/10         www.kmkregservices.com       www.askdrluc.com       www.ghssmart.com

## Section 2. Hazards identification

Disposal

: P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

Hazards not otherwise classified

## Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

: None known.

**Chemical name** 

: Not available.

: Cloransulam methyl

#### Other means of identification

Ingredient name	%	CAS number
Benzoic acid, 3-chloro-2-[[(5-ethoxy-7-fluoro[1,2,4]triazolo[1,5-c]pyrimidin-2-yl)sulfonyl]amino]-, methyl ester	≥75 - ≤90	147150-35-4
	≥3 - ≤5 ≥3 - ≤4.9	Proprietary Proprietary

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

### Description of necessary first aid measures

Eye contact	<ul> <li>Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 20 minutes. Get medical attention if irritation occurs.</li> </ul>
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
Skin contact	: Flush contaminated skin with plenty of water. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

Potential acute health	<u>effects</u>	
Eye contact	: No known significant effects or critical hazards.	
Inhalation	: Harmful if inhaled.	
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## Section 4. First aid measures

Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Over-exposure signs/symp	<u>15</u>
Eye contact	No known significant effects or critical hazards.
Inhalation	No known significant effects or critical hazards.
Skin contact	No known significant effects or critical hazards.
Ingestion	No known significant effects or critical hazards.
Indication of immediate med	I attention and special treatment needed, if necessary
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
Specific treatments	No specific treatment.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

# Section 5. Fire-fighting measures

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

## Section 6. Accidental release measures

Environmental precautions	:	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.
Methods and materials for co	<u>ont</u> a	ainment and cleaning up
Small spill	:	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.
Large spill	:	Move containers from spill area. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.
	-	

## Section 7. Handling and storage

### Precautions for safe handling

recautions for sale nationing	
Protective measures	Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### **Control parameters**

### Occupational exposure limits

Ingredient name	Exposure limits
Benzoic acid, 3-chloro-2-[[(5-ethoxy-7-fluoro[1,2,4]triazolo[1,5-c]pyrimidin-	None.
2-yl)sulfonyl]amino]-, methyl ester	
Anionic/Lignosulfonate Blend	None.
Nonionic/Lignosulfonate Blend	None.

Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
Environmental exposure	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

## Section 8. Exposure controls/personal protection

### Individual protection measures

Hygiene measures	:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.	
Eye/face protection	:	Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.	
Skin protection			
Hand protection	<ul> <li>Iand protection</li> <li>Chemical-resistant, impervious gloves complying with an approved standard worn at all times when handling chemical products if a risk assessment indicature during use that the gloves are still retaining their protective properties. It sh noted that the time to breakthrough for any glove material may be different f glove manufacturers. In the case of mixtures, consisting of several substan protection time of the gloves cannot be accurately estimated.</li> </ul>		
Body protection	:	Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Other skin protection	:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.	
Respiratory protection	:	Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.	

# Section 9. Physical and chemical properties

<u>Appearance</u>	
Physical state	: Solid. [Granules.]
Color	: Brown.
Odor	: Mild bitter.
Odor threshold	: Not available.
рН	: 6.84 (@25°C, 1% dispersion)
Melting point	: Not available.
Boiling point	: Not available.
Flash point	: Not available.
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Not available.
Vapor pressure	: Not available.
Vapor density	: Not available.
Relative density	: 0.554
Solubility	: Not available.
Partition coefficient: n- octanol/water	: Not available.



## Section 9. Physical and chemical properties

Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.
Flow time (ISO 2431)	: Not available.

## Section 10. Stability and reactivity

Description (1974)		
Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	
Chemical stability	: The product is stable.	
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.	
Conditions to avoid	: No specific data.	
Incompatible materials	: None known.	
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.	

## Section 11. Toxicological information

### Information on toxicological effects

Acute toxicity	
There is no data available.	
Irritation/Corrosion	
There is no data available.	
Sensitization	
There is no data available.	
Mutagenicity	
There is no data available.	
<b>Carcinogenicity</b>	
There is no data available.	
Reproductive toxicity	
There is no data available.	
<u>Teratogenicity</u>	
There is no data available.	
Specific target organ toxicity (s	ingle exposure)
There is no data available.	
Specific target organ toxicity (re	<u>epeated exposure)</u>
There is no data available.	
Aspiration hazard	
There is no data available.	
Information on the likely :	Dermal contact. Eye contact. Ingestion.

routes of exposure

## Section 11. Toxicological information

Potential acute health effects				
Eye contact	:	No known significant effects or critical hazards.		
Inhalation	1	Harmful if inhaled.		
Skin contact	1	No known significant effects or critical hazards.		
Ingestion	:	No known significant effects or critical hazards.		
Symptoms related to the phy	<u>sic</u>	al, chemical and toxicological characteristics		
Eye contact	1	No known significant effects or critical hazards.		
Inhalation	1	No known significant effects or critical hazards.		
Skin contact	1	No known significant effects or critical hazards.		
Ingestion	1	No known significant effects or critical hazards.		
Delayed and immediate effec	ts :	and also chronic effects from short and long term exposure		
<u>Short term exposure</u>				
Potential immediate effects	÷	No known significant effects or critical hazards.		
Potential delayed effects	:	No known significant effects or critical hazards.		
<u>Long term exposure</u>				
Potential immediate effects	:	No known significant effects or critical hazards.		
Potential delayed effects	:	No known significant effects or critical hazards.		
Potential chronic health effects				
General	1	No known significant effects or critical hazards.		
Carcinogenicity	1	No known significant effects or critical hazards.		
Mutagenicity	1	No known significant effects or critical hazards.		
Teratogenicity	1	No known significant effects or critical hazards.		
<b>Developmental effects</b>	1	No known significant effects or critical hazards.		
Fertility effects	1	No known significant effects or critical hazards.		

### Numerical measures of toxicity

### Acute toxicity estimates

Rou	ite	ATE value
Inhal	ation (vapors)	13.1 mg/L

# Section 12. Ecological information

## Toxicity Product/ingredient name Result Species Exposure Benzoic acid, 3-chloro-2-[[(5-ethoxy-7-fluoro[1,2,4]triazolo[1,5-c]pyrimidin-2-yl)sulfonyl]amino]-, methyl ester Acute EC50 3 ppb Fresh water Algae - Pseudokirchneriella subcapitata Fish - Menidia beryllina 96 hours

### Persistence and degradability

There is no data available.

## Section 12. Ecological information

### **Bioaccumulative potential**

There is no data available.

<u>Mobility in soil</u>	
Soil/water partition coefficient (Koc)	: Not available.

Other adverse effects : No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods
 The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling empty containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	DOT Classification	IMDG	ΙΑΤΑ
UN number	Not regulated.	UN3077	UN3077
UN proper shipping name	-	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzoic acid, 3-chloro-2-[[(5-ethoxy-7-fluoro[1,2,4] triazolo[1,5-c]pyrimidin-2-yl)sulfonyl] amino]-, methyl ester). Marine pollutant (Benzoic acid, 3-chloro-2-[[(5-ethoxy- 7-fluoro[1,2,4]triazolo[1,5-c]pyrimidin-2-yl) sulfonyl]amino]-, methyl ester)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Benzoic acid, 3-chloro-2-[[(5-ethoxy-7-fluoro[1,2, 4]triazolo[1,5-c]pyrimidin-2-yl)sulfonyl] amino]-, methyl ester)
Transport hazard class(es)	-	9	9
Packing group	-	III	Ш
Environmental hazards	No.	Yes.	Yes.

**AERG** : 171

### Additional information

#### IMDG

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1. 4 to 4.1.1.8.



## Section 14. Transport information

ΙΑΤΑ

: This product is not regulated as a dangerous good when transported in sizes of ≤5 L or ≤5 kg, provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

## Section 15. Regulatory information

U.S. Federal regulations	:	TSCA 8(a) CDR Exempt/Partial exemption: Not determined United States inventory (TSCA 8b): All components are listed or exempted.
Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs)	:	Listed
Clean Air Act Section 602 Class I Substances	:	Not listed
Clean Air Act Section 602 Class II Substances	:	Not listed
DEA List I Chemicals (Precursor Chemicals)	:	Not listed
DEA List II Chemicals (Essential Chemicals)	:	Not listed
SADA 302/304		

### SARA 302/304

### **Composition/information on ingredients**

		SARA 302 TPQ		SARA 304 RQ	
Name	EHS	(lbs)	(gallons)	(lbs)	(gallons)
Ethylene oxide	Yes.	1000	-	10	-

### SARA 304 RQ

: 249687.9 lbs / 113358.3 kg

### SARA 311/312 Classification

### : ACUTE TOXICITY (inhalation) - Category 4

### Composition/information on ingredients

Name	Classification
Benzoic acid, 3-chloro-2-[[(5-ethoxy-7-fluoro[1,2,4]triazolo[1,5-c] pyrimidin-2-yl)sulfonyl]amino]-, methyl ester	ACUTE TOXICITY (inhalation) - Category 4
Anionic/Lignosulfonate Blend	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
Nonionic/Lignosulfonate Blend	SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A

### **SARA 313**

There is no data available.

### State regulations Massachusetts

- : The following components are listed: Starch
- New York
- : None of the components are listed.
- **New Jersey**
- : None of the components are listed.

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## Section 15. Regulatory information

Pennsylvania

: The following components are listed: Starch

### California Prop. 65

**WARNING**: This product can expose you to Ethylene oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

Ingredient name	No significant risk level	Maximum acceptable dosage level
Ethylene oxide	Yes.	Yes.

## Section 16. Other information

### Procedure used to derive the classification

Classification	Justification
ACUTE TOXICITY (inhalation) - Category 4	Calculation method
AQUATIC HAZARD (ACUTE) - Category 1	Calculation method
AQUATIC HAZARD (LONG-TERM) - Category 1	Calculation method

#### **History**

Date of issue mm/dd/yyyy	: 12/30/2017
Version	: 1
Prepared by	: KMK Regulatory Services Inc.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

