

**DuPont™ Glean® XP Herbicide**

Version 2.1

Revision Date 06/30/2015

Ref. 130000033378

This SDS adheres to the standards and regulatory requirements of the United States and may not meet the regulatory requirements in other countries.

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

Product name : DuPont™ Glean® XP Herbicide  
Tradename/Synonym : DPX-W4189 75PX  
B12810940  
Chlorsulfuron XP  
Chlorsulfuron 75XP  
CHLORSULFURON: (2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)aminocarbonyl] benzenesulfonamide)

Product Use : Herbicide

Restrictions on use :  
Do not use product for anything outside of the above specified uses

Manufacturer/Supplier : DuPont  
4417 Lancaster Pike  
Wilmington, DE 19805, USA

Product Information : 1-800-441-7515 (outside the U.S. 1-302-774-1000)  
Medical Emergency : 1-800-441-3637 (outside the U.S. 1-302-774-1139)  
Transport Emergency : CHEMTREC: +1-800-424-9300 (outside the U.S. +1-703-527-3887)

**SECTION 2. HAZARDS IDENTIFICATION**

Not classified as a hazardous substance or mixture according to the Occupational Safety and Health Administration (OSHA) Hazard Communication Standard 2012.

**Other hazards**

No applicable data available.

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**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

Component	CAS-No.	Concentration
Chlorsulfuron	64902-72-3	75 %
Modified Lingin Sulfonate Salt		5 - 10 %
Other Ingredients		15 - 20 %

The specific chemical identity and/or exact percentage (concentration) of composition has been withheld as a trade secret.

**SECTION 4. FIRST AID MEASURES**

- General advice : Have the product container or label with you when calling a poison control center or doctor, or going for treatment.  
For medical emergencies involving this product, call toll free 1-800-441-3637.  
See Label for Additional Precautions and Directions for Use.
- Inhalation : No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
- Skin contact : The material is not likely to be hazardous by skin contact, but cleaning the skin after use is advisable.
- Eye contact : Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

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- Ingestion : Call a poison control center or doctor for treatment advice. Have person sip a glass of water if able to swallow. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Do not give anything by mouth to an unconscious person.
- Most important symptoms/effects, acute and delayed : No applicable data available.
- Protection of first-aiders : No applicable data available.
- Notes to physician : Treat symptomatically.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : High volume water jet, (contamination risk)
- Specific hazards : No applicable data available.
- Special protective equipment for firefighters : Wear full protective clothing and self-contained breathing apparatus. Wear full protective equipment.
- Further information : (on small fires) If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Cool containers/tanks with water spray.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

- Safeguards (Personnel) : Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus. Use personal protective equipment.
- Environmental precautions : Prevent material from entering sewers, waterways, or low areas.
- Spill Cleanup : Sweep up and shovel into suitable containers for disposal.



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Accidental Release Measures : No applicable data available.

### SECTION 7. HANDLING AND STORAGE

- Handling (Personnel) : Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing/PPE immediately if material gets inside. Wash thoroughly and put on clean clothing. Remove personal protective equipment immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
- Handling (Physical Aspects) : Keep away from heat and sources of ignition. Avoid dust formation in confined areas. During processing, dust may form explosive mixture in air.
- Dust explosion class : No applicable data available.  
Storage : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Store in a cool, dry place. Keep out of the reach of children.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

### SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

- Engineering controls : When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified for "Applicators and Other Handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.
- Personal protective equipment  
Skin and body protection : Mixers, loaders, applicators and other handlers must wear:  
Long sleeved shirt and long pants  
Chemical resistant gloves made of any waterproof material  
Shoes plus socks  
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has


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been treated, such as plants, soil, or water, is:  
 Coveralls  
 Chemical resistant gloves made of any waterproof material  
 Shoes plus socks

Protective measures : Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

**Exposure Guidelines  
 Exposure Limit Values**
**Chlorsulfuron**

AEL *	(DUPONT)	10 mg/m <sup>3</sup>	8 & 12 hr. TWA Total dust.
AEL *	(DUPONT)	5 mg/m <sup>3</sup>	8 & 12 hr. TWA Respirable dust.

Modified Lingin Sulfonate Salt  
 No applicable data available.

\* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**
**Appearance**

Physical state : solid  
 Form : solid, dry, free flowing, water dispersible granules  
 Color : tan

Odor : none

Odor threshold : not determined

pH : 4.4 - 5.4

Melting point/freezing point : Melting point  
 Not available for this mixture.

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Boiling point/boiling range	: Boiling range Not applicable
Sublimation point	: Not available for this mixture.
Flash point	: No applicable data available.
Evaporation rate	: No applicable data available.
Flammability (solid, gas)	: No applicable data available.
Upper explosion limit	: No applicable data available.
Lower explosion limit	: No applicable data available.
Vapour Pressure	: No applicable data available.
Vapour density	: No applicable data available.
Specific gravity (Relative density)	: Not available for this mixture.
Water solubility	: dispersible
Solubility(ies)	: No applicable data available.
Partition coefficient: n-octanol/water	: No applicable data available.
Auto-ignition temperature	: Auto-ignition temperature Not available for this mixture.
Decomposition temperature	: No applicable data available.
Viscosity, kinematic	: No applicable data available.
Viscosity, dynamic	: No applicable data available.
Phys-chem data	: No other data to be specially mentioned.

**SECTION 10. STABILITY AND REACTIVITY**


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Reactivity	:	No applicable data available.
Chemical stability	:	Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	:	No applicable data available.
Conditions to avoid	:	No applicable data available.
Incompatible materials	:	None reasonably foreseeable.
Hazardous decomposition products	:	No applicable data available.

**SECTION 11. TOXICOLOGICAL INFORMATION**

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Dermal LD50	:	> 5,000 mg/kg , Rat
Oral LD50	:	> 2,000 mg/kg , Rat
Skin irritation	:	No skin irritation, Rabbit Minimal effects that do not meet the threshold for classification.
Eye irritation	:	No eye irritation, Rabbit Minimal effects that do not meet the threshold for classification.
Sensitisation	:	Animal test did not cause sensitization by skin contact., Guinea pig

Chlorsulfuron

Inhalation 4 h LC50	:	> 5.5 mg/l , Rat
Repeated dose toxicity	:	No toxicological effects warranting significant target organ toxicity classification were seen below the recommended guidance values for classification., The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.  Inhalation Rat - Reduced body weight gain, Kidney effects, Spleen effects, Bloody urine, bone marrow changes  Oral Rat -


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Reduced body weight gain, altered blood chemistry

Oral  
Dog

-

Abnormal decrease in number of red blood cells

- Carcinogenicity** : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.  
Target(s):  
Leydig cells  
An equivocal increase in tumors was observed in one species, but not in another species.  
Not classifiable as a human carcinogen.
- Mutagenicity** : Animal testing did not show any mutagenic effects.  
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
- Reproductive toxicity** : No toxicity to reproduction
- Teratogenicity** : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.  
Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

**Carcinogenicity**

The carcinogenicity classifications for this product and/or its ingredients have been determined according to HazCom 2012, Appendix A.6. The classifications may differ from those listed in the National Toxicology Program (NTP) Report on Carcinogens (latest edition) or those found to be a potential carcinogen in the International Agency for Research on Cancer (IARC) Monographs (latest edition).

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen.

**SECTION 12. ECOLOGICAL INFORMATION**

## Aquatic Toxicity

## Chlorsulfuron

96 h LC50

: Oncorhynchus mykiss (rainbow trout) &gt; 122 mg/l




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96 h LC50	:	Lepomis macrochirus (Bluegill sunfish) > 128 mg/l
96 h LC50	:	Cyprinodon variegatus (sheepshead minnow) > 980 mg/l
72 h EbC50	:	Pseudokirchneriella subcapitata (green algae) 0.068 mg/l
120 h EbC50	:	Pseudokirchneriella subcapitata (green algae) 0.05 mg/l
14 d EC50	:	Lemna gibba (duckweed) 0.00035 mg/l
14 d EC50	:	Lemna gibba (duckweed) 0.00042 mg/l US EPA Test Guideline OPPTS 850.4400 Information source: Internal study report
14 d ErC50	:	Lemna gibba (duckweed) 0.00069 mg/l
4 h EC50	:	Lemna gibba (duckweed) 0.119 mg/l
48 h EC50	:	Daphnia magna (Water flea) > 112 mg/l
96 h LC50	:	Americamysis bahia (mysid shrimp) 89 mg/l

## Environmental Fate

Modified Lingin Sulfonate Salt  
Bioaccumulation

: Bioaccumulation is unlikely.

Additional ecological information

: Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when cleaning equipment or disposing of equipment washwaters or rinsate.

**SECTION 13. DISPOSAL CONSIDERATIONS**Waste disposal methods -  
Product

: Do not contaminate water, food or feed by disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Waste disposal methods -  
Container: Container Refilling and Disposal:  
Refer to the product label for instructions.  
Do not transport if this container is damaged or leaking.  
In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.


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Contaminated packaging : No applicable data available.

**SECTION 14. TRANSPORT INFORMATION**

IATA_C	UN number	: 3077
	Proper shipping name	: Environmentally hazardous substance, solid, n.o.s. (Chlorsulfuron)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9MI
IMDG	UN number	: 3077
	Proper shipping name	: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Chlorsulfuron)
	Class	: 9
	Packing group	: III
	Labelling No.	: 9

Not regulated as a hazardous material by DOT.

**SECTION 15. REGULATORY INFORMATION**

Other regulations : This Safety Data Sheet is for a pesticide product registered by the US Environmental Protection Agency (USEPA) and is therefore also subject to certain labeling requirements under US pesticide law (FIFRA). These requirements differ from the classification criteria and hazard information required by OSHA for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the mandatory hazard information required by USEPA on the pesticide label:

**CAUTION!**

Harmful if swallowed. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

SARA 313 Regulated : Chlorsulfuron


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## Chemical(s)

Title III hazard classification : Acute Health Hazard: Yes  
 Chronic Health Hazard: No  
 Fire: No  
 Reactivity/Physical hazard: No  
 Pressure: No

EPA Reg. No. : 352-653  
 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.

**SECTION 16. OTHER INFORMATION**

	NFPA
Health :	1
Flammability :	1
Reactivity/Physical hazard :	0

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Contact person : DuPont Crop Protection, Wilmington, DE, 19898, Phone: 1-888-638-7668

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.

Significant change from previous version is denoted with a double bar.



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