

**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

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™ Cimarron® X-tra Herbicide  
Tradename/Synonym : Cimarron X-Tra  
DPX-JXC08  
METSULFURON METHYL (Methyl 2-[[[(4-Methoxy-6-methyl-1,3,5-triazin-2-yl)amino]carbonyl]amino]sulfonyl]benzoate)  
CHLORSULFURON (2-Chloro-N-[(4-methoxy-6-methyl-1,3,5-triazin-2-yl)Aminocarbonyl]Benzene-Sulfonamide)

Product Use : Herbicide

Restrictions on use : This product is intended to be used as a pesticide

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.

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

**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

Component	CAS-No.	Concentration
Chlorsulfuron	64902-72-3	37.5 %
Metsulfuron methyl	74223-64-6	30 %
Modified Lingin Sulfonate Salt		1 - 5 %
Other Ingredients		27.5 - 31.5 %

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 : Take off all contaminated clothing immediately. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- 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.

**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

Ingestion : Call a physician or poison control centre immediately. 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 : No applicable data available.

**SECTION 5. FIREFIGHTING MEASURES**

Suitable extinguishing media : Water spray, Foam, Dry chemical, Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : No applicable data available.

Specific hazards : Not a fire or explosion hazard.

Special protective equipment for firefighters : Wear self-contained breathing apparatus and protective suit.

Further information : Evacuate personnel to safe areas. Use water spray. Runoff from fire control may be a pollution hazard. Control Runoff. If area is heavily exposed to fire and if conditions permit, let fire burn itself out since water may increase the area contaminated. Do not allow run-off from fire fighting to enter drains or water courses.

**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.

Environmental precautions : Prevent material from entering sewers, waterways, or low areas.

Spill Cleanup : Dike spill. Sweep up and shovel into suitable containers for disposal.

**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

Accidental Release Measures : Follow applicable Federal, State/Provincial and Local laws/regulations.

**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) : No applicable data available.
- Dust explosion class : No applicable data available.
- Storage : Store product in original container only, away from other pesticides, fertilizer, food or feed. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.
- Storage period : No applicable data available.
- Storage temperature : No applicable data available.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

- Engineering controls : Use only with adequate ventilation. 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.
- Personal protective equipment
- Skin and body protection : Mixers, loaders, applicators and other handlers must wear:  
Long sleeved shirt and long pants  
Shoes plus socks  
Chemical resistant gloves made of any waterproof material, such as polyethylene or polyvinyl chloride.  
PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:  
Coveralls  
Chemical resistant gloves made of any waterproof material


**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

Shoes plus socks

Protective measures : 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/m3	8 & 12 hr. TWA Total dust.
AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA Respirable dust.

Metsulfuron methyl

AEL *	(DUPONT)	10 mg/m3	8 & 12 hr. TWA Total 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, granules
Color	: light brown

Odor	: slight
------	----------

Odor threshold	: No applicable data available.
----------------	---------------------------------

pH	: 4.5 - 5.5
----	-------------

Melting point/range	: No applicable data available.
---------------------	---------------------------------

Boiling point/boiling range	: No applicable data available.
-----------------------------	---------------------------------

**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

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)	:	No applicable data available.
Bulk density	:	0.60 - 0.75 g/m <sup>3</sup>
Water solubility	:	dispersible
Solubility(ies)	:	No applicable data available.
Partition coefficient: n-octanol/water	:	No applicable data available.
Auto-ignition temperature	:	No applicable data available.
Decomposition temperature	:	No applicable data available.
Viscosity, kinematic	:	No applicable data available.
Viscosity, dynamic	:	No applicable data available.

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity	:	No applicable data available.
Chemical stability	:	Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	:	Polymerization will not occur.
Conditions to avoid	:	None reasonably foreseeable.


**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

Incompatible materials : None reasonably foreseeable.

Hazardous decomposition products : Decomposition will not occur.

**SECTION 11. TOXICOLOGICAL INFORMATION**

Inhalation 4 h Acute toxicity estimate : > 5.0 mg/l , Rat  
 Dermal Acute toxicity estimate : > 5,000 mg/kg , Rat  
 Oral Acute toxicity estimate : > 2,857.1 mg/kg , Rat

Skin irritation : No skin irritation, Rat

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

Further information : Information given is based on data on the components.

Chlorsulfuron

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

-

Reduced body weight gain, altered blood chemistry

Oral

Dog

-



**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

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.

**Metsulfuron methyl Repeated dose toxicity** : The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Oral  
 Rat  
 -  
 Reduced body weight gain, Organ weight changes, Liver

Dermal  
 Rabbit  
 -  
 Skin irritation

**Carcinogenicity** : Not classifiable as a human carcinogen.  
 Did not show carcinogenic effects in animal experiments.

**Mutagenicity** : Animal testing did not show any mutagenic effects.  
 Did not cause genetic damage in cultured bacterial cells.  
 Genetic damage in cultured mammalian cells was observed in some laboratory tests but not in others.




**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

Reproductive toxicity : No toxicity to reproduction  
Animal testing did not show any effects on fertility.

Teratogenicity : Animal testing showed no developmental 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) > 122 mg/l
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


**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

Metsulfuron methyl		
96 h LC50	:	Oncorhynchus mykiss (rainbow trout) > 150 mg/l
72 h EC50	:	Anabaena flos-aquae (cyanobacteria) 0.066 mg/l
14 d EC50	:	Lemna minor (common duckweed) 0.00036 mg/l
48 h EC50	:	Daphnia magna (Water flea) > 120 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. See product label for additional application instructions relating to environmental precautions.

**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. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulations.
Waste disposal methods - Container	:	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.
Contaminated packaging	:	No applicable data available.

**SECTION 14. TRANSPORT INFORMATION**

IATA\_C            UN number            : 3077


**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

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

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!**

Causes moderate eye irritation. Harmful if swallowed or absorbed through the skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with skin, eyes and clothing. Avoid breathing dust or spray mist. Remove and wash contaminated clothing before re-use.

SARA 313 Regulated Chemical(s) : Chlorsulfuron

PA Right to Know Regulated Chemical(s) : Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for Special Hazardous Substances):  
Sucrose

**DuPont™ Cimarron® X-tra Herbicide**

Version 2.0

Revision Date 07/30/2015

Ref. 130000029441

EPA Reg. No. : 352-669

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

™ Trademark of E.I. du Pont de Nemours and Company.

® Registered trademark of E.I. du Pont de Nemours and Company

Revision Date : 07/30/2015

Contact person : DuPont Crop Protection

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.