

Version 2.0

Revision Date 07/10/2015

Ref. 13000000398

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 Tradename/Synonym	:	DuPont [™] Harmony [®] SG Herbicide (with TotalSol [®] soluble granules) B11646126 Thifensulfuron Methyl 50SG Herbicide Harmony 50SG Harmony X-tra 1 Herbicide THIFENSULFURON METHYL: Methyl 3-[[[[(4-methoxy-6-methyl-1,3,5- triazin- 2-yl)amino]carbonyl]amino] sulfonyl]-2-thiophenecarboxylate DPX-M6316 50SG
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 Medical Emergency Transport Emergency	:	1-800-441-7515 (outside the U.S. 1-302-774-1000) 1-800-441-3637 (outside the U.S. 1-302-774-1139) 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		
Component	CAS-1	No. Concentration
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Thifensulfuron methyl	79277-27-3	50 %
Sodium carbonate	497-19-8	10 - 15 %
Other Ingredients		35 - 40 %

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	 Never give anything by mouth to an unconscious person. 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	: No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
Ingestion	: No specific intervention is indicated as the compound is not likely to be hazardous. Consult a physician if necessary.
Most important symptoms/effects, acute and delayed	: No applicable data available.
Protection of first-aiders Notes to physician	No applicable data available.No applicable data available.
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SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media	: Wate	r spray, Dry chemical, Foam, Carbon dioxide (CO2)
Unsuitable extinguishing media	: High	volume water jet, (contamination risk)
Specific hazards	: Unde air.	r severe dusting conditions, this material may form explosive mixtures in
Special protective equipment for firefighters	: Wea	full protective clothing and self-contained breathing apparatus.
Further information	fire b conta	mall fires) If area is heavily exposed to fire and if conditions permit, let urn itself out since water may increase the area contaminated. Cool iners/tanks with water spray. ot 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 apparatus. Use personal protective equipment.	breathing
Environmental precautions	Prevent material from entering sewers, waterways, or low areas.	
Spill Cleanup	Sweep up and shovel into suitable containers for disposal. For mir leaks, etc., follow all precautions indicated on the label and clean immediately. Take special care to avoid contamination of equipme facilities during cleanup procedures and disposal of wastes.	, , ,
Accidental Release Measures	Never return spills in original containers for re-use. Dispose of in a with local regulations.	ccordance



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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) Dust explosion class Storage	 No applicable data available. No applicable data available. 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	: 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 been treated, such as plants, soil, or water, is: Coveralls Chemical resistant gloves made of any waterproof material Shoes plus socks
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Duront narmony	SG HEIDICIUE	(WILLI I ULAIS	soi soiubie y	anuies)	
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Protective measures	instructions		kist, use detergent an	aintaining PPE. If no such d hot water. Keep and	
Exposure Guidelines Exposure Limit Values					
Thifensulfuron methyl AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Total dust.	
Sodium carbonate AEL *	(DUPONT)	5 mg/m3	8 & 12 hr. TWA	Total dust.	
* AEL is DuPont's Accep lower than the AEL are ir				upational exposure limits which are	Э
SECTION 9. PHYSICAL AND	CHEMICAL PROPE	RTIES			
Appearance Physical state Form Color	: solid : granules : light brown				
Odor	: mild				
Odor threshold	: No applicat	le data available.			
рН	: 8.7 - 9.7				
Melting point/freezing point	: Melting poir ca. 182 °C (
Boiling point/boiling range	: No applicat	ole data available.			
Flash point	: Not applica	ble			
Evaporation rate	: No applicab	le data available.			
Flammability (solid, gas)	: The produc	ct is not flammabl	е.		
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Upper explosion limit	: No applicable data available.
Lower explosion limit	: 0.1 - 0.25 g/l
Vapour Pressure	: No applicable data available.
Vapour density	: No applicable data available.
Specific gravity (Relative density)	: No applicable data available.
Bulk density	: Tapped
Water solubility	: soluble
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 Chemical stability	:	No applicable data available. Stable at normal temperatures and storage conditions.
Possibility of hazardous reactions	:	Polymerization will not occur.
Conditions to avoid	:	None reasonably foreseeable.
Incompatible materials	:	No materials to be especially mentioned.
Hazardous decomposition products	:	No applicable data available.



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SECTION 11. TOXICOLOGICAL INFORMATION

DuPont [™] Harmony [®] SG Herbicide (with Inhalation 4 h_Acute	TotalSol [®] soluble granules) : >5 mg/l,Rat
toxicity estimate Dermal LD50	: > 5,000 mg/kg , Rat
Oral LD50	: > 5,000 mg/kg , Rat
Skin irritation	: No skin irritation, Rabbit
Eye irritation	: No eye irritation, Rabbit
Sensitisation	: Animal test did not cause sensitization by skin contact., Guinea pig
Further information	 Information given is based on data on the components and the toxicology of similar products.
Thifensulfuron methyl	
Repeated dose toxicity	: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
	Oral - feed multiple species
	Reduced body weight gain
Carcinogenicity	: Animal testing did not show any carcinogenic effects.
Mutagenicity	 Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Animal testing did not show any mutagenic effects.
Reproductive toxicity	: No toxicity to reproduction Animal testing showed no reproductive toxicity.
Teratogenicity	: Did not show teratogenic effects in animal experiments. Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.
Sodium carbonate Repeated dose toxicity	: Inhalation Rat
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	- Respiratory tract irritation
Mutagenicity	 Tests on bacterial or mammalian cell cultures did not show mutagenic effects. Evidence suggests this substance does not cause genetic damage in animals.
Reproductive toxicity	: Animal testing showed no reproductive toxicity.
Teratogenicity	: Animal testing showed no developmental toxicity.
to HazCom 2012, Appendi	Or set and the first of the fir
Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a	
Program (NTP) Report on International Agency for R None of the components p by IARC, NTP, or OSHA, a SECTION 12. ECOLOGICAL INFOR Aquatic Toxicity	esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen.
Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a SECTION 12. ECOLOGICAL INFOR Aquatic Toxicity DuPont [™] Harmony [®] SG Her	esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen. RMATION bicide (with TotalSol [®] soluble granules)
Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a SECTION 12. ECOLOGICAL INFOR Aquatic Toxicity DuPont [™] Harmony [®] SG Herl 96 h LC50	esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen. RMATION bicide (with TotalSol [®] soluble granules) : Oncorhynchus mykiss (rainbow trout) > 120 mg/l
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Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a SECTION 12. ECOLOGICAL INFOF Aquatic Toxicity DuPont [™] Harmony [®] SG Herl 96 h LC50 14 d EC50 48 h EC50 Thifensulfuron methyl 28 d	esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen. RMATION bicide (with TotalSol [®] soluble granules) : Oncorhynchus mykiss (rainbow trout) > 120 mg/l : Lemna gibba (duckweed) 0.00130 mg/l : Daphnia magna (Water flea) > 120 mg/l : NOEC Americamysis bahia (mysid shrimp) 7.93 mg/l
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Program (NTP) Report on International Agency for Re None of the components p by IARC, NTP, or OSHA, a SECTION 12. ECOLOGICAL INFOF Aquatic Toxicity DuPont [™] Harmony [®] SG Herl 96 h LC50 14 d EC50 14 d EC50 48 h EC50 Thifensulfuron methyl 28 d Sodium carbonate 4 d Environmental Fate	esearch on Cancer (IARC) Monographs (latest edition). resent in this material at concentrations equal to or greater than 0.1% are listed as a carcinogen. RMATION bicide (with TotalSol [®] soluble granules) : Oncorhynchus mykiss (rainbow trout) > 120 mg/l : Lemna gibba (duckweed) 0.00130 mg/l : Daphnia magna (Water flea) > 120 mg/l : NOEC Americamysis bahia (mysid shrimp) 7.93 mg/l



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		inorganic substances.		
Bioaccumulation		: Does not bioaccumulate.		
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. Do not apply where/when conditions favour runoff.		
CTION 13. DIS	SPOSAL CONSIDER	ATIONS		
Waste dispos Product	al methods - :	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 dispos Container	al methods - :	Container Refilling and Disposal: Refer to the product label for instructions.		
		In the event of a major spill, fire or other emergency, call 1-800-441-3637 day or night.		
Contaminated	I packaging :	No applicable data available.		
CTION 14. TR	ANSPORT INFORM	ATION		
CTION 14. TR	ANSPORT INFORM	ATION : 3077		
	UN number Proper shipping Class Packing group	: 3077 g name : Environmentally hazardous substance, solid, n.o.s. (Thifensulfuron-methyl) : 9 : III		
	UN number Proper shipping Class Packing group Labelling No. UN number	: 3077 g name : Environmentally hazardous substance, solid, n.o.s. (Thifensulfuron-methyl) : 9 : III : 9MI : 3077		
IATA_C	UN number Proper shipping Class Packing group Labelling No.	: 3077 g name : Environmentally hazardous substance, solid, n.o.s. (Thifensulfuron-methyl) : 9 : III : 9MI : 3077 g name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,		
IATA_C	UN number Proper shipping Class Packing group Labelling No. UN number	: 3077 g name : Environmentally hazardous substance, solid, n.o.s. (Thifensulfuron-methyl) : 9 : III : 9MI : 3077		



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Not regulated as a hazardous material by DOT.

DuPont internal recommendations and transport guidance:

ICAO / IATA cargo aircraft only

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA special provision A197, and ADR/RID special provision 375.

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! Avoid contact with skin, eyes and clothing. Wash thoroughly with soap and water after handling.
SARA 313 Regulated Chemical(s)	: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
Title III hazard classification	: Acute Health Hazard: Yes Chronic Health Hazard: No Fire: No Reactivity/Physical hazard: No Pressure: No
EPA Reg. No.	: 352-633 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.
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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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