

Version 2.0

Revision Date 07/10/2015 Ref. 130000000398

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[™] Harmony[®] SG Herbicide (with TotalSol[®] soluble granules)

Tradename/Synonym : 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 : 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

Component	CAS-No.	Concentration



Version 2.0

Revision Date 07/10/2015 Ref. 130000000398

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

Protection of first-aiders Notes to physician : No applicable data available.

No applicable data available.No applicable data available.



Version 2.0

Revision Date 07/10/2015 Ref. 130000000398

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

Unsuitable extinguishing

media

: High volume water jet, (contamination risk)

Specific hazards : Under severe dusting conditions, this material may form explosive mixtures in

air.

Special protective equipment

for firefighters

: Wear full protective clothing and self-contained breathing apparatus.

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.

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. 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. For minor spills,

leaks, etc., follow all precautions indicated on the label and clean up immediately. Take special care to avoid contamination of equipment and

facilities during cleanup procedures and disposal of wastes.

Accidental Release Measures : Never return spills in original containers for re-use. Dispose of in accordance

with local regulations.



Version 2.0

Revision Date 07/10/2015

Ref. 13000000398

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

No applicable data available.No applicable data available.

Storage : No applicable data available.

Storage : Do not contaminate water, other per

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



Version 2.0

Revision Date 07/10/2015 Ref. 130000000398

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

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.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid
Form : granules
Color : light brown

Odor : mild

Odor threshold : No applicable data available.

pH : 8.7 - 9.7

Melting point/freezing point : Melting point/range

ca. 182 °C (360 °F)

Boiling point/boiling range : No applicable data available.

Flash point : Not applicable

Evaporation rate : No applicable data available.

Flammability (solid, gas) : The product is not flammable.

^{*} 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.



Version 2.0

Revision Date 07/10/2015 Ref. 130000000398

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 : 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.

Incompatible materials : No materials to be especially mentioned.

Hazardous decomposition

products

No applicable data available.



Version 2.0

Revision Date 07/10/2015 Ref. 13000000398

SECTION 11. TOXICOLOGICAL INFORMATION

DuPont[™] Harmony[®] SG Herbicide (with TotalSol[®] soluble granules)

Inhalation 4 h Acute : > 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



Version 2.0

Revision Date 07/10/2015 Ref. 130000000398

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.

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

DuPont Harmony SG Herbicide (with TotalSol soluble granules)

96 h LC50 : Oncorhynchus mykiss (rainbow trout) > 120 mg/l

14 d EC50 : Lemna gibba (duckweed) 0.00130 mg/l

48 h EC50 : Daphnia magna (Water flea) > 120 mg/l

Thifensulfuron methyl

28 d : NOEC Americamysis bahia (mysid shrimp) 7.93 mg/l

Sodium carbonate

4 d : EC50 Daphnia magna (Water flea) 228 - 297 mg/l

Environmental Fate

Sodium carbonate

Biodegradability : The methods for determining biodegradability are not applicable to



Version 2.0

Revision Date 07/10/2015 Ref. 130000000398

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.

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

IMDG

: 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 packaging : No applicable data available.

SECTION 14. TRANSPORT INFORMATION

IATA_C UN number : 3077

Proper shipping name : Environmentally hazardous substance, solid, n.o.s.

(Thifensulfuron-methyl)

Class : 9

Packing group : III Labelling No. : 9MI UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

SOLID, N.O.S. (Thifensulfuron-methyl)

Class : 9
Packing group : III
Labelling No. : 9



Version 2.0

Revision Date 07/10/2015

Ref. 130000000398

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.

Safety Data Sheet



DuPont[™] Harmony[®] SG Herbicide (with TotalSol[®] soluble granules)

Version 2.0

Revision Date 07/10/2015 Ref. 130000000398

SECTION 16. OTHER INFORMATION

NFPA

Health : 1

Flammability : 1

Reactivity/Physical hazard : 0

Revision Date : 07/10/2015

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.

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

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