

Version 1.0

Revision Date 02/01/2018 Ref. 130000012163

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 : Harmony<sup>®</sup> Extra SG Herbicide (with TotalSol<sup>®</sup> soluble granules)

Tradename/Synonym : B11645335

DPX-R9674 50SG

Harmony Extra Herbicide (with TotalSol soluble granules)

Refine Extra SG Refine Extra 50 SG

Refine SG

THIFENSULFURON METHYL: (Methyl 3-[[[(4-methoxy-6-methyl-1,3,5-triazin-

2-yl)amino]carbonyl]amino] sulfonyl]-2-thiophenecarboxylate)

TRIBENURON METHYL: (Methyl 2-[[[(4-methoxy-6-methyl-I,3,5-triazin-2-

yl)methylamino]carbonyl]- amino]sulfonyl] benzoate)

Product Use : Herbicide

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

Manufacturer/Supplier : FMC Corporation

2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Medical Emergency : 1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)

1 651 / 632-6793 (ProPharma Group - All Other Countries - Collect)

For leak, fire, spill or : 1800 / 424 9300 (CHEMTREC - U.S.A.) accident emergencies, call: 1703 / 741-5970 (CHEMTREC - International)

1 703 / 527 3887 (CHEMTREC - Alternate)

### **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.



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Other hazards No applicable data available.

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

200-48-0 16.67 %
77-27-3 33.33 %
01-89-0 1 - 5 %
19-8 10 - 15 %
30 - 39 %
) -

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 : See Section 1 for emergency phone numbers. See Label for Additional

Precautions and Directions for Use. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

Inhalation : Move to fresh air. If person is not breathing, call 911 or an ambulance, then

give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison

control center or doctor for treatment advice.



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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.

: No specific intervention is indicated as the compound is not likely to be Ingestion

hazardous. Consult a physician if necessary.

Most important

symptoms/effects, acute

and delayed

Protection of first-aiders

: No applicable data available.

Notes to physician : In case of methemoglobinemia administer methylene blue 1% solution. Treat

symptomatically.

#### **SECTION 5. FIREFIGHTING MEASURES**

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

: No applicable data available.

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.

Further information : Fire residues and contaminated fire extinguishing water must be disposed of

in accordance with local regulations. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Prevent fire extinguishing water from contaminating surface water or the ground water system. Burns with colourless flame. 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.



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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. 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.

#### 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 : Store in original container. Do not contaminate water, other pesticides,

fertilizer, food or feed in storage. 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

Personal protective equipment

Skin and body protection : Applicators and other handlers must wear:

Long sleeved shirt and long pants

Chemical-resistant gloves, Category A (such as butyl rubber, natural rubber, neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils

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, Category A (such as butyl rubber, natural rubber,

neoprene rubber, or nitrile rubber), all greater than or equal to 14 mils

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

Tribenuron methyl

AEL \* (FMC) 0.5 mg/m3 12 hr. TWA AEL \* (FMC) 1 mg/m3 8 hr. TWA

Trisodium phosphate dodecahydrate No applicable data available.

Thifensulfuron methyl

AEL \* (FMC) 5 mg/m3 8 & 12 hr. TWA Total dust.

Sodium carbonate

AEL \* (FMC) 5 mg/m3 8 & 12 hr. TWA Total dust.

Other Ingredients

No applicable data available.

#### SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid

Form : extruded granules
Color : light brown

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



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Odor : slight, slightly sour

Odor threshold : Not applicable

pH : 9.2 - 9.8

Melting point/range : No applicable data available.

Boiling point/boiling range : No applicable data available.

Flash point : Not applicable

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.

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.

Ignition temperature : 385 °C

Decomposition temperature : No applicable data available.

Viscosity, kinematic : No applicable data available.

Viscosity, dynamic : No applicable data available.



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### **SECTION 10. STABILITY AND REACTIVITY**

No applicable data available.

Chemical stability : The product is chemically stable under recommended conditions of storage,

use and temperature.

Stable at normal temperatures and storage conditions.

Possibility of hazardous

reactions

: No applicable data available.

Conditions to avoid : No applicable data available.

: No materials to be especially mentioned. Incompatible materials

products

Hazardous decomposition : Decomposes slowly on exposure to water.

#### SECTION 11. TOXICOLOGICAL INFORMATION

Harmony® Extra SG Herbicide (with TotalSol® soluble granules)

Inhalation 4 h LC50 : > 5.0 mg/l , Rat

Active ingredient

Dermal LD50 : > 5,000 mg/kg, Rat

Oral LD50 : > 5,000 mg/kg , Rat

Skin irritation : No skin irritation, Rabbit

No eye irritation, Rabbit Eye irritation

: Did not cause sensitisation on laboratory animals., Guinea pig Sensitisation

Further information Information given is based on data on the components and the

toxicology of similar products.

### 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.



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### **SECTION 12. ECOLOGICAL INFORMATION**

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

**IMDG** 

: Container Refilling and Disposal:

Refer to the product label for instructions.

Do not transport if this container is damaged or leaking.

See Section 1 for emergency phone numbers.

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, Tribenuron methyl)

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

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE,

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

methyl)

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



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Marine pollutant : yes (Thifensulfuron-methyl, Tribenuron methyl)

Not regulated as a hazardous material by DOT.

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!** 

Causes moderate eye irritation. Avoid contact with skin, eyes and clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in

some individuals.

SARA 313 Regulated

Chemical(s)

: Tribenuron methyl

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):

Trisodium phosphate dodecahydrate

Title III hazard classification

: Acute Health Hazard: Yes Chronic Health Hazard: No

Fire: No

Reactivity/Physical hazard: No

Pressure: No

EPA : 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



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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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