

**HARMONY® 75 DF**

Version 1.0

Revision Date 2018.01.03

Document no. 130000000178

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

**Section 1 - Chemical and Enterprise Identification**

**Chinese name** : HARMONY® 75 DF  
**Product name in English** : HARMONY® 75 DF  
**Other names** : B10029758  
DPX-M6316 75DF

**Manufacturer or supplier's details**

**Company** : FMC Corporation  
**Street address** : 2929 Walnut Street, Philadelphia, PA 19104,  
**E-mail** : [msdsinfo@fmc.com](mailto:msdsinfo@fmc.com)

**Telephone** : 86 21 20675888  
**Telefax** : 86 21 20675858

**Emergency telephone number** : 86 21 5867 9090

**Recommended use of the chemical and restriction on use**

**Recommended use** : Herbicide

**Section 2 - Hazard Identification****GHS Hazard Category**

|  |            |
|--|------------|
| Target Organ Systemic Toxicant - Repeated exposure | Category 2 |
| Acute aquatic toxicity                             | Category 1 |
| Chronic aquatic toxicity                           | Category 1 |

**GHS Label Elements**

**Pictogram** :



**Signal word** : Warning

**Hazardous warnings** : Very toxic to aquatic life with long lasting effects.  
May cause damage to organs through prolonged or repeated exposure.  
(Respiratory system)

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Hazardous prevention measures : Get medical advice/ attention if you feel unwell.  
Collect spillage.  
Dispose of contents/container in accordance with local regulation.  
Do not breathe dust or mist.

**Main Symptom and Emergency Summary After Contact**

No information available.

**Section 3 - Ingredients/Composition Information**

Chemical nature : Mixture

**Components**

| Chemical Name                             | CAS-No.    | Concentration |
|---|------------|---------------|
| Thifensulfuron methyl                     | 79277-27-3 | 75 %          |
| Sodium isopropylated naphthalenesulfonate | 68442-09-1 | 2.6 %         |
| Inert Ingredients                         |            | 22.4 %        |

**Section 4 - First-aid Measures**

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.

Inhalation : Remove person to fresh air. If signs/symptoms continue, get medical attention. Artificial respiration and/or oxygen may be necessary. Call a poison control center or doctor for treatment advice.

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. If eye irritation persists, consult a specialist.

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 information available.

Protection of first-aiders : No information available.

Notes to physician : No information available.

**Section 5 - Fire-fighting Measures**

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

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Unsuitable extinguishing media:  
High volume water jet, (contamination risk)

Specific hazards : No information available.

Specific fire fighting methods and special protective equipment for fire fighters : Wear full protective clothing and self-contained breathing apparatus. Prevent fire extinguishing water from contaminating surface water or the ground water system. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. (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 - Leak Emergency Treatment**

Protective measures, devices and emergency treatment procedure for workers : Review sections 5 and 7 of the SDS before proceeding with clean-up. Use personal protective equipment.

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

Collection of leaking materials, removal method and materials used for disposal : Sweep up and shovel into suitable containers for disposal.

Prevention of secondary hazards : Never return spills in original containers for re-use. Dispose of in accordance with local regulations.

**Section 7 - Operation Handling and Storage****Operation Handling**

Technical measures/Precautions : Provide appropriate exhaust ventilation at places where dust is formed. Wear personal protective equipment.

Precautions for safe handling : Keep away from heat and sources of ignition.

Hygiene measures : Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash thoroughly after handling. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Wash contaminated clothing before re-use.

**Storage**

Suitable storage conditions : Do not contaminate water, other pesticides, fertilizer, food or feed in storage. Store in original container. Keep tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children.

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**Section 8 - Exposure Control and Personal Protection**

**Engineering controls** : Ensure adequate ventilation, especially in confined areas.

**Occupational Exposure Limits**

No information available.

Biological occupational exposure limits : No information available.

**Personal protective equipment**

Respiratory protection : In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.

Hand protection : Material: Chemical-resistant gloves

Eye protection : Goggles, face shield, or safety glasses.

Skin protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as appropriate.

**Section 9 - Physical and Chemical Properties****Appearance (Physical state, form, colour, etc.)**

Physical state : solid

Form : solid, dry, free flowing granules

Colour : tan

**Odour** : not significant

**pH (specified concentration)** : 4.37 ( 10 g/l)

**Melting point/freezing point**

Melting point/range :  $\geq 182$  °C

**Boiling point, initial boiling point and boiling range**

no data available

**Flammability (solid, gas)** : Does not sustain combustion.

**Flash point** : not applicable

**Decomposition temperature** : no data available

**Autoignition temperature** : no data available

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**Explosion limits**

Upper explosion limit : no data available

Lower explosion limit : no data available

**Vapour pressure** : no data available**Vapour density** : no data available**Density**

Density : 0.65 g/cm3

**Solubility(ies)**

Water solubility : dispersible

Solubility in other solvents : no data available

**Partition coefficient: n-octanol/water** : no data available**Section 10 - Stability and Reactivity**

Stability : No decomposition if stored and applied as directed.

Possible hazardous reactions under specific conditions : Dust may form explosive mixture in air.

Conditions to avoid : Stable at normal temperatures and storage conditions.

Materials to avoid : No information available.

Hazardous decomposition products : Carbon oxides, Sulphur oxides, nitrogen oxides (NOx)

**Section 11 - Toxicological Information**

Acute toxicity : HARMONY® 75 DF:

Oral: LD50/rat : &gt; 5,000 mg/kg

Inhalation: LC50/4 h/rat : 5.3 mg/l

Dermal: LD50/rabbit : &gt; 5,000 mg/kg

Skin corrosion/irritation : HARMONY® 75 DF:

Species: rabbit

Result: No skin irritation

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|   |   |
|---|---|
| Eye irritation/corrosion                          | : HARMONY® 75 DF:<br><br>Species: rabbit<br>Result: No eye irritation   |
| Respiratory or skin sensitization                 | : HARMONY® 75 DF:<br><br>Species: guinea pig<br>Classification: Did not cause sensitization on laboratory animals.<br>Result: Animal test did not cause sensitization by skin contact.  |
| Germ cell mutagenicity                            | : Thifensulfuron methyl:<br><br>Tests on bacterial or mammalian cell cultures did not show mutagenic effects.   |
| Carcinogenicity                                   | : Thifensulfuron methyl:<br><br>Animal testing did not show any carcinogenic effects.   |
| Toxicity for reproduction                         | : Thifensulfuron methyl:<br><br>Animal testing showed no reproductive toxicity.<br>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.   |
| Specific Target Organs Toxicity (Single/Repeated) | : Refer to acute toxicity and/or repeated dose toxicity data for more information on target organs if applicable.   |
| Aspiration hazard                                 | : no data available   |
| Other   | : Thifensulfuron methyl:<br><br>The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.<br>Repeated dose toxicity: Oral - feed, multiple species<br>Reduced body weight gain<br><br>Sodium isopropylated naphthalenesulfonate:<br><br>Repeated dose toxicity: Inhalation, rat<br>Respiratory tract damage, Pathologic changes<br>Target Organs: Respiratory Tract |

**Section 12 - Ecological Information**

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**Ecotoxicity effects**

|                             |   |
|-----------------------------|---|
| Toxicity to fish            | : Thifensulfuron methyl:<br><br>LC50/96 h/Oncorhynchus mykiss (rainbow trout): 91 mg/l  |
| Other                       | : Thifensulfuron methyl:<br><br>EC50/336 h/Lemna gibba (duckweed): 0.00129 mg/l<br>EC50/48 h/Daphnia magna (Water flea): 250 mg/l |
| Persistence and degradation | : no data available   |
| Bioaccumulation             | : no data available   |
| Mobility in soil            | : no data available   |
| Other adverse effects       | : HARMONY® 75 DF:<br><br>See product label for additional application instructions relating to environmental precautions.         |

**Section 13 - Waste Disposal**

|                        |   |
|------------------------|---|
| Waste disposal methods | : In accordance with local and national regulations. Do not contaminate ponds, waterways or ditches with chemical or used container.<br>Used package: Do not re-use empty containers. |
|------------------------|---|

**Section 14 - Transport Information****China Dangerous Goods Regulation**

|                      |   |
|----------------------|---|
| UN number            | : 3077  |
| Proper shipping name | : Environmentally hazardous substance, solid, n.o.s.<br>(Thifensulfuron-methyl) |
| Class                | : 9   |
| Packing group        | : III   |

**IMDG**

|                      |   |
|----------------------|---|
| UN number            | : 3077  |
| Proper shipping name | : Environmentally hazardous substance, solid, n.o.s.<br>(Thifensulfuron-methyl) |
| Class                | : 9   |
| Packing group        | : III   |
| Marine pollutant     | : yes   |

|  |  |
|--|--|
| Matters needing attention for transportation | : Not regulated as a hazardous material by IATA.<br>Optional classification as per IATA Special Provision A97. |
|--|--|

**Section 15 - Regulatory Information**

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Regulations on the Control over the Safety of Dangerous Chemicals  
Production Safety Law of the People's Republic of China  
Law of the People's Republic of China on Prevention and Treatment of Occupational Disease  
Environmental Protection Law of the People's Republic of China  
Law of the People's Republic of China on the Prevention and Control of Atmospheric Pollution  
Marine Environment Protection Law of the People's Republic of China  
Fire Protection Law of the People's Republic of China  
Law of the People's Republic of China on the Prevention and Control of Environmental Pollution by Solid Wastes  
Occupational exposure limits for hazardous agents in the workplace Part 1 Chemical hazardous agents (GBZ2.1)  
Occupational exposure limits for hazardous agents in the workplace Part 2 Physical agents (GBZ2.2)  
General rule for classification and hazard communication of chemicals (GB13690)  
National Hazardous Waste Inventory  
DG goods list and classification (GB12268)  
Dangerous goods classification (GB6944)  
Common dangerous chemical storage rules (GB15603)  
Packaging Symbols of Dangerous Goods (GB190)

**Section 16 - Other Information**

References : US MSDS No.: M0000042

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

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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The above information relates only to the specific material(s) designated herein and may not be valid for such material(s) used in combination with any other materials or in any process or if the material is altered or processed, unless specified in the text.