

Version 1.0

Revision Date 2018.01.03 Ref. 130000000178

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

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : HARMONY® 75 DF

Synonyms : B10029758

DPX-M6316 75DF

Recommended use of the chemical and restrictions on use

Recommended use : Herbicide

Information on the Manufacturer/Supplier/Distributor

Company : FMC Korea Ltd.

Street address 7th floor, Mijin Building, 111, Dogok-ro, Gangnam-gu, Seoul 06253, Republic of

Korea

Responsible Department : No information available.

Telephone : +82-2-539-6411 Telefax : +82-2-567-4662

Emergency telephone : +82-2-539-6411 for working time.

number There is no emergency telephone no. for 24hours.

2. HAZARDS IDENTIFICATION

GHS-Classification

Acute aquatic toxicity Category 1
Chronic aquatic toxicity Category 1

Endpoints which are not classified, cannot be classified or are not applicable are not shown.

GHS Label element

Pictogram :



Signal word : Warning

Hazard statements : Very toxic to aquatic life with long lasting effects.

Precautionary statements : Collect spillage.

Dispose of contents/ container to an approved waste disposal plant.

3. COMPOSITION/INFORMATION ON INGREDIENTS



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Pure substance/mixture : Mixture

Components

Chemical Name	CAS-No.	Concentration
Thifensulfuron methyl	79277-27-3	75 %
Other Ingredients		25 %

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.

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.

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.

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.

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.

Indication of immediate medical attention and notes

for physician

Treat symptomatically.

5. FIREFIGHTING MEASURES

Suitable (and inappropriate)

extinguishing media

Water spray, Dry chemical, Foam, Carbon dioxide (CO2)

Unsuitable extinguishing media:

High volume water jet, (contamination risk)

Specific hazards arising

from the chemical

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.

Special protective equipment for firefighters

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, : Review sections 5 and 7 of the SDS before proceeding with clean-up. Use



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protective equipment and emergency procedures

personal protective equipment.

Never return spills in original containers for re-use. Dispose of in accordance with

local regulations.

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

Methods and materials for containment and cleaning

up

Sweep up and shovel into suitable containers for disposal.

7. HANDLING AND STORAGE

Precautions for safe 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.

Conditions for safe 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.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limits of the chemical substance, biological exposure limits and etc.

No information available.

Engineering measures : Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

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

protection and protective suit.

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

Hand protection : Material: Chemical-resistant gloves

Skin and body protection : Wear protective clothing such as gloves, apron, boots, or coveralls, as

appropriate.

FMC

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9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Physical state : solid

Form : solid , dry, free flowing granules

Colour : tan

Odour : not significant

Odour Threshold : no data available

pH : 4.37 (10 g/l)

Melting point/freezing point

Melting point/range : $>= 182 \, ^{\circ}\text{C}$

Boiling point/boiling range

no data available

Flash point : not applicable

Evaporation rate : no data available

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

Upper and lower flammable or explosive limits

Upper explosion limit : Not available for this mixture.

Lower explosion limit : Not available for this mixture.

Vapour pressure : Not available for this mixture.

Solubility(ies)

Water solubility : dispersible

Solubility in other solvents : no data available

Vapour density : no data available

Specific gravity

Density : 0.65 g/cm3

Partition coefficient: : no data available

n-octanol/water

Auto-ignition temperature : no data available

Decomposition temperature : Not available for this mixture.

SAFETY DATA SHEET



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Viscosity : no data available

Molecular weight : no data available

10. STABILITY AND REACTIVITY

Chemical stability & Possibility of hazardous

reactions

No decomposition if stored and applied as directed.

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)

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Respiratory system: Refer to below subheading

Oral: Refer to below subheading

Eye/Skin contact: Refer to below subheading

Health hazard information

Acute toxicity : HARMONY® 75 DF:

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

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

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

Skin corrosion/irritation : HARMONY® 75 DF:

Species: rabbit

Result: No skin irritation

Serious eye damage/eye

irritation

HARMONY® 75 DF:

Species: rabbit

Result: No eye irritation

Respiratory sensitization /

Skin sensitization

HARMONY® 75 DF:

Species: guinea pig

Classification: Did not cause sensitisation on laboratory animals. Result: Animal test did not cause sensitization by skin contact.



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Germ cell mutagenicity : Thifensulfuron methyl:

Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Did not cause genetic damage in animals.

Carcinogenicity : Thifensulfuron methyl:

Animal testing did not show any carcinogenic effects.

Reproductive toxicity : Thifensulfuron methyl:

Animal testing showed no reproductive toxicity.

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 toxicity : no data available

Other : Thifensulfuron methyl:

The following effects occurred at levels of exposure that significantly exceed

those expected under labeled usage conditions. Repeated dose toxicity: Oral - feed, multiple species

Reduced body weight gain

12. ECOLOGICAL INFORMATION

Toxicity on aquatic terrestrial organisms

Toxicity to fish : HARMONY® 75 DF:

LC50/96 h/Oncorhynchus mykiss (rainbow trout): 91 mg/l

Other : HARMONY® 75 DF:

EC50/14 d/Lemna gibba: 0.00129 mg/l

EC50/48 h/Daphnia magna (Water flea): 250 mg/l

Persistence and

: no data available

degradability Bioaccumulation

: no data available

Mobility in soil : no data available

Other adverse effects : HARMONY® 75 DF:



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See product label for additional application instructions relating to environmental

precautions.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods : In accordance with local and national regulations. Do not contaminate ponds,

waterways or ditches with chemical or used container.

Precautions for Disposal : Do not re-use empty containers.

14. TRANSPORT INFORMATION

IMDG

UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Thifensulfuron-methyl)

Class : 9 Packing group : III

Marine pollutant : yes (Thifensulfuron-methyl)

IATA

UN number : 3077

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

(Thifensulfuron-methyl)

Class : 9 Packing group : III

Matters needing attention

for transportation

not applicable

15. REGULATORY INFORMATION

Industrial Safety and Health Act

not regulated

Toxic Chemicals Control Act

not regulated

Dangerous Substance Safety Management Act

not regulated

Waste Control Act

Dispose of in accordance with local regulations.

Regulations in other countries

No information available.



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16. OTHER INFORMATION

Sources of key data used to compile the Safety Data Sheet

US MSDS No.: M0000042

Issuing date : 2018.01.03

Number of revision times and the date of preparation of the

2018.01.03 Version 3.2

latest revision

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.