

# SAFETY DATA SHEET

## Section 1: PRODUCT AND COMPANY IDENTIFICATION

**Product Identifier** 

Product Name HARMONY® 75XP

Other means of identification

Registration number No information available

Recommended use of the chemical and restrictions on use

Recommended Use: Herbicide

**Restrictions on Use:** Use as recommended by the label.

Details of the supplier of the safety data sheet

Manufacturer/Supplier

Telefax: 03-5208-1012

FMC Chemicals K.K. 1-1-1 Otemachi, Chiyoda-ku, Tokyo Telephone: 03-5208-1010

Responsible Department: Agricultural Solutions

Emergency telephone number

03-5208-1010

## **Section 2: HAZARDS IDENTIFICATION**

#### Classification of the chemical

Acute aquatic toxicity	Category 1
Chronic aquatic toxicity	Category 1

### **Label Elements**



Signal Word WARNING

**Hazard Statements** 

H410 - Very toxic to aquatic life with long lasting effects

**Precautionary Statements - Prevention** 

• P273 - Avoid release to the environment

**Precautionary Statements - Response** 

• P391 - Collect spillage

**Precautionary Statements - Storage** 

· Not applicable

**Precautionary Statements - Disposal** 

• P501 - Dispose of contents/container to an approved waste disposal plant

Other Information

Other Hazards No information available

## Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	Weight %	ENCS (Japan)	ISHL No	CAS-No
Thifensulfuron-methyl 79277-27-3	75	8-(3)-814		79277-27-3
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt 9084-06-4	1-5	-		9084-06-4
Magnesium stearate 557-04-0	0.5-1.5	-		557-04-0
Kaolin 1332-58-7	10-20	-		1332-58-7

# **Section 4: FIRST AID MEASURES**

**Inhalation** Move to fresh air. If breathing difficulty or discomfort occurs and persists, obtain medical

attention.

**Skin Contact** Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Call a poison control center or doctor for further treatment advice.

Eye Contact In the case of contact with eyes, rinse immediately with plenty of water and seek medical

advice. Remove contact lenses after a few minutes and rinse again. Call a poison control

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center or doctor for further treatment advice.

**Ingestion** 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. Have

person sip a glass of water if able to swallow.

Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically.

## **Section 5: FIRE FIGHTING MEASURES**

Flammable properties Substance does not burn.

**Explosive properties** Not explosive.

Suitable Extinguishing Media Water spray, Dry chemical, Foam, Carbon dioxide (CO<sub>2</sub>).

**Unsuitable extinguishing media** High volume water jet.

Specific Hazards Arising from the

Chemical

Thermal decomposition can lead to release of irritating gases and vapors. Carbon oxides

(COx). Nitrogen oxides (NOx).

**Special Extinguishing Media** Cool containers/tanks with water spray.

Special protective equipment for

fire-fighters

Wear self-contained breathing apparatus and protective suit.

Other Information Prevent fire extinguishing water from contaminating surface water or the groundwater 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.

# **Section 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions Keep people away from and upwind of spill/leak. Avoid dust formation. Use personal

protective equipment. For personal protection see section 8.

**Environmental Precautions**Prevent further leakage or spillage if safe to do so. Do not flush into surface water or

sanitary sewer system. Local authorities should be advised if significant spillages cannot be

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contained.

Methods for Containment Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and

transfer to containers for later disposal.

Methods for cleaning up Clean and neutralize spill area, tools and equipment for a minimum contact of one hour with

vinegar-alcohol solution, then by bleach, soap, and water. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal.

Dispose of waste as indicated in Section 13.

**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## **Section 7: HANDLING AND STORAGE**

Handling Avoid contact with skin, eyes and clothing. Avoid breathing vapors or mists. Wash

thoroughly after handling. Remove and wash contaminated clothing before re-use. Do not discharge to the environment. Do not contaminate water when disposing of equipment wash waters. Collect all waste material and remains from cleaning equipment, etc., and

dispose of as hazardous waste. See section 13 for disposal.

**Storage** Keep container tightly closed in a dry and well-ventilated place. Keep away from open

flames, hot surfaces and sources of ignition. Keep out of the reach of children. Store in original container. Keep out of reach of children and animals. Keep at temperatures below

50°C°C.

**Incompatible products** Strong oxidizing agents, Strong acids, Strong bases.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### **Exposure Guidelines**

Chemical name	Japan	ISHL Working Environmental Evaluation Standards - Administrative Control Levels	ACGIH TLV
Magnesium stearate 557-04-0		-	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup> (inhalable/respirable particles)
Kaolin 1332-58-7	OEL: 0.5 mg/m³ (respirable dust) OEL: 2 mg/m³ (total dust)	-	TWA: 2 mg/m³

**Engineering measures** Ensure adequate ventilation, especially in confined areas. When working in confined

spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing

and wear the recommended equipment.

Personal protective equipment

Respiratory Protection

The product does not automatically present an airborne exposure concern during normal handling. In the event of an accidental discharge of the material which produces a heavy vapour or mist, workers should put on officially approved respiratory protection equipment

with a universal filter type including particle filter.

**Hand Protection** Wear chemical protective gloves made of materials such as nitrile or neoprene.

**Eye/Face Protection** For dust, splash, mist or spray exposure, wear chemical protective goggles.

**Skin and Body Protection**Wear appropriate chemical resistant clothing to prevent skin contact depending on the

extent of exposure. During most normal work situations where exposure to the material cannot be avoided for a limited time span, waterproof pants and apron of chemical resistant

material or coveralls of polyethylene (PE) will be sufficient. Coveralls of PE must be

discarded after use if contaminated. In cases of appreciable or prolonged exposure, coveralls of barrier laminate may be required.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Provide regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands and face before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. For environmental protection, remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.

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## Section 9: PHYSICAL AND CHEMICAL PROPERTIES

**Physical State** Solid **Appearance** Granules

No information available Odor

Light brown Color **Odor threshold** No data available

Property

4.4 @ 10 g/l (25°C) pН No information available Melting point/freezing point Boiling Point/Range No information available

Flash point Not applicable

**Evaporation Rate** No information available

Flammability (solid, gas) Not flammable

Flammability Limit in Air

**Upper flammability limit:** Lower flammability limit:

Vapor pressure No information available Vapor density No information available Specific gravity No information available Water solubility Dispersible in water Solubility in other solvents No information available No information available Partition coefficient **Autoignition temperature** No information available **Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic No information available **Explosive properties** Not explosive

**Oxidizing properties** Non-oxidizing

No information available Softening point **VOC content (%)** No information available Relative density No information available 710 kg/m3, loose **Bulk density** 750 kg/m3, packed

## Section 10: STABILITY AND REACTIVITY

Reactivity

No data available.

Stability Stable under normal conditions.

Explosion data

Sensitivity to Mechanical Impact No information available. Sensitivity to Static Discharge No information available.

**Hazardous reactions** None under normal processing.

**Conditions to Avoid** Extremes of temperature and direct sunlight

Dust may form explosive mixture in air

Incompatible products Strong oxidizing agents, Strong acids, Strong bases.

Hazardous Decomposition Products Sulfur oxides.

## Section 11: TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

Numerical measures of toxicity - Product Information

LD50 Oral> 5000 mg/kg (rat), US EPA Test Guideline OPP 81-1LD50 Dermal> 2000 mg/kg (rabbit), US EPA Test Guideline OPP 81-2

LC50 Inhalation 5.3 mg/L 4 hr (rat) (Method: OECD 403)

#### Numerical measures of toxicity - Component Information

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Thifensulfuron-methyl	> 5 g/kg (Rat)	> 2000 mg/kg (Rabbit)	> 7900 mg/m³ (Rat) 4 h
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt	= 3800 mg/kg (Rat)		
Kaolin	> 5000 mg/kg (Rat)	> 5000 mg/kg (Rat)	

## Delayed and immediate effects as well as chronic effects from short and long-term exposure

**Skin corrosion/irritation** Non-irritating (rabbit).

Method: US EPA Test Guideline OPP 81-5.

Serious eye damage/eye irritation Non-irritating (rabbit).

(Method OPPTS 830.2400).

**Sensitization** Guinea pig: Did not cause sensitization on laboratory animals.

(Method: OECD 406).

Mutagenicity Thifensulfuron- methyl: Did not show mutagenic effects in animal experiments. Tests on

bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity Thifensulfuron-methyl: Did not show carcinogenic effects in animal experiments.

**Reproductive toxicity** Thifensulfuron-methyl: No toxicity to reproduction in animal studies.

**Developmental toxicity**Thifensulfuron- methyl: Animal testing did not show developmental toxicity.

STOT - single exposure No specific effects after single exposure have been observed.

STOT - repeated exposure Thifensulfuron- methyl: The substance is not classified as specific target organ toxicant,

repeated exposure.

The following effects occurred at exposure levels that significantly exceed those expected

under the label use conditions.

Oral - feed multiple species Reduced body weight gain

Oral - feed Rat

Increase in blood urea nitrogen, altered hematology

Oral Rat

Exposure time: 28 d NOAEL: 529 mg/kg

No adverse effect has been observed in chronic toxicity tests.

**Aspiration hazard** No aspiration toxicity classification.

# **Section 12: ECOLOGICAL INFORMATION**

#### **Ecotoxicity**

Acute toxicity to fish

LC 50/96 h/Lepom is m acrochirus (ブルーギル サンフィッシュ): >520 m g/L, 0 ECD 203 LC 50/96 h/O ncorhynchus m ykiss (ニジマス): 410 m g/L, 0 ECD 203

Acute toxicity to aquatic plants

EC50/14 d/Lemna gibba: 0.00172 mg/L, US EPA OPP 122-2 123-2

Acute toxicity to aquatic invertebrates

LC 50/48 h/D aphn ia m agna (オオミジンコ): 320 m g/L,0 EC D 202

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other
			aquatic invertebrates
Thifensulfuron-methyl		NOEC / 21 d / Oncorhynchus	NOEC / 28 d / Americamysis
		mykiss (rainbow trout): > 250	bahia (mysid shrimp): 7.93 mg/l
		mg/l	
		NOEC / 62 d / Oncorhynchus	EC50 / 21 d / Daphnia magna
		mykiss (rainbow trout): 10.6	(Water flea): > 340 mg/l
		mg/l	
		_	NOEC / 21 d / Daphnia magna
			(Water flea): > 340 mg/l

Persistence and degradability Not readily biodegradable. (based on active ingredient).

**Bioaccumulation** Does not bioaccumulate. (based on active ingredient).

Mobility in soil Not mobile in soil.

Other Adverse Effects None known

## **Section 13: DISPOSAL CONSIDERATIONS**

Residual waste In the disposal of residual and other wastes, observe the relevant laws /regulations and

local government rules.

Users of the product should contract with the local government or licensed 'Industrial Waste

Processors' for disposal of waste.

It is important to let the contractor know well of fire and health hazards of the product, prior

to disposal.

Contaminated containers and

packages

Clean the containers for reuse or dispose them properly in accordance with relevant regulations and local government rules. Completely empty containers prior to disposal.

# **Section 14: TRANSPORT INFORMATION**

IMDG/IMO

**UN/ID no** 3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl)

Hazard class 9
Packing Group III
Marine Pollutant Yes

**ICAO** 

UN/ID no 3077

**Proper Shipping Name** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl)

**Hazard class Packing Group** Ш

ADR/RID

UN/ID no 3077

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl) **Proper Shipping Name** 

**Hazard class Packing Group** Ш

ICAO/IATA

UN/ID no 3077

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Thifensulfuron-methyl) **Proper Shipping Name** 

**Hazard class Packing Group** 

# **Section 15: REGULATORY INFORMATION**

## **International Inventories**

Component	TSCA (United States)	DSL (Canada)	EINECS/ELI NCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines )	AICS (Australia)
Thifensulfuron-meth yl 79277-27-3 ( 75 )	,			8-(3)-814			·	
Naphthalene sulfonic acid-formaldehyde condensate, sodium salt 9084-06-4 (1-5)	X	Х		-	X	Х	Х	X
Magnesium stearate 557-04-0 ( 0.5-1.5 )	Х	Х	Х	-	Х	Х	Х	Х
Kaolin 1332-58-7 ( 10-20 )	Х	Х	Х	-	X	Х	X	Х

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances
PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

Chemical name	Dangerous Substances		Harmful Substances Whose Names Are to be Indicated on the Label	of Hazards Due to Specified	3
Magnesium stearate 557-04-0	>=1 %	Not applicable	Х	•	

Miscellaneous dangerous substances and articles (Article 194 of The Enforcement Rules of **Aviation Law:** 

Aviation Law and its Attached Table 1)

Miscellaneous dangerous substances and articles (Article 2 and 3 of rules on shipping and **Vessel Safety Law:** 

storage of dangerous goods and its Attached Table 1)

**Agricultural Chemicals Regulation** Herbicide

Law:

## **Section 16: OTHER INFORMATION**

Prepared By: FMC Corporation

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Revision note Initial Release.

Other Information Contact department/person for inquiry

Japan Poison Information Centre

Osaka Poison #110 (24 hours): (General citizen) 072-727-2499,

(Medical institutions) 072-726-9923,

Tsukuba Poison #110 (9:00 to 21:00): (General citizen) 029-852-9999,

(Medical institutions) 029-851-9999

#### Disclaimer

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**End of Safety Data Sheet**