



MAISTER WG62 4X3KG BOT UA

Version 1 / EU
102000012416

1/10
Revision Date: 23.08.2013
Print Date: 14.11.2017

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Trade name MAISTER WG62 4X3KG BOT UA
Product code (UVP) 06480985

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use Herbicide

1.3 Details of the supplier of the safety data sheet

Supplier Bayer AG
Kaiser-Wilhelm-Allee 1
51373 Leverkusen
Germany

Telefax +49(0)2173-38-7394
Responsible Department Product Safety and Specification Management
+49(0)2173-38-3409 (during business hours only)
Email: BCS-SDS@bayer.com

1.4 Emergency telephone no.

Emergency telephone no. ZCUST-X01.00000178
+1 (760) 476-3964 (Company 3E for Bayer AG, Crop Science
Division)

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Skin sensitisation: Category 1

H317 May cause an allergic skin reaction.

Acute aquatic toxicity: Category 1

H400 Very toxic to aquatic life.

Chronic aquatic toxicity: Category 1

H410 Very toxic to aquatic life with long lasting effects.

Classification according to EU Directives 67/548/EEC or 1999/45/EC

R43

N Dangerous for the environment, R50/53

2.2 Label elements

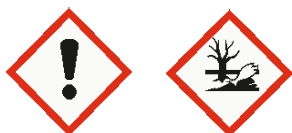
Labelling in accordance with Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures, as amended.

Hazard label for supply/use required.

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Hazardous components which must be listed on the label:

- Foramsulfuron
- Iodosulfuron-methyl
- Isoxadifen-ethyl



Signal word: Warning

Hazard statements

- H317 May cause an allergic skin reaction.
 H410 Very toxic to aquatic life with long lasting effects.
 EUH401 To avoid risks to human health and the environment, comply with the instructions for use.

Precautionary statements

- P280 Wear protective gloves/protective clothing/eye protection/face protection.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
 P501 Dispose of contents/container in accordance with local regulation.

2.3 Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**3.2 Mixtures****Chemical nature**

Water dispersible granules (WG)

Hazardous components

R-phrases according to EC directive 67/548/EEC

Hazard statements according to Regulation (EC) No. 1907/2006

Name	CAS-No. / EC-No.	Classification		Conc. [%]
		EC Directive 67/548/EEC	Regulation (EC) No 1272/2008	
Foramsulfuron	173159-57-4 605-666-1	R52/53	Aquatic Chronic 3, H412	30,00
Iodosulfuron-methyl	144550-06-1 429-890-2	N; R50/53	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	2,00
Isoxadifen-ethyl	163520-33-0 443-870-0	Xn; R22 R43 N; R50/53	Acute Tox. 4, H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	30,00
Naphthalenesulfonic acid, polymer with formaldehyde, sodium salt	9084-06-4 618-665-6	Not classified	Not classified	>= 1,00 - < 25,00
Polyarylphenylether sulfate, ammonium salt	119432-41-6 601-612-6	R52/53	Aquatic Chronic 3, H412	>= 1,00 - < 20,00

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Further information

Isoxadifen-ethyl	163520-33-0	M-Factor: 1 (acute)
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For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES**4.1 Description of first aid measures**

Inhalation	Keep patient warm and at rest. If symptoms persist, call a physician. Move to fresh air.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. If symptoms persist, call a physician.
Eye contact	Rinse immediately with plenty of water and seek medical advice.
Ingestion	Do NOT induce vomiting. Rinse mouth, ingest activated charcoal. If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	The product causes irritation of eyes, skin and mucous membranes., Allergic reactions
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4.3 Indication of any immediate medical attention and special treatment needed

Treatment	Initial treatment: symptomatic. Gastric lavage is not normally required. However, if a significant amount (more than a mouthful) has been ingested, administer activated charcoal and sodium sulphate. Elimination by dialysis (forced alkaline diuresis). Recovery is spontaneous and without sequelae.
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SECTION 5: FIREFIGHTING MEASURES**5.1 Extinguishing media**

Suitable	Water spray, Foam, Carbon dioxide (CO ₂), Dry powder
Unsuitable	High volume water jet

5.2 Special hazards arising from the substance or mixture	In the event of fire the following may be released:, Carbon monoxide (CO), Nitrogen oxides (NO _x), Sulphur oxides, Hydrogen iodide (HI)
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5.3 Advice for firefighters

Special protective equipment for fire-fighters	In the event of fire, wear self-contained breathing apparatus.
Further information	Do not allow run-off from fire fighting to enter drains or water courses.

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SECTION 6: ACCIDENTAL RELEASE MEASURES**6.1 Personal precautions, protective equipment and emergency procedures****Precautions** Use personal protective equipment.**6.2 Environmental precautions** Do not allow to get into surface water, drains and ground water. If the product contaminates rivers and lakes or drains inform respective authorities.**6.3 Methods and materials for containment and cleaning up****Methods for cleaning up** Use mechanical handling equipment. Collect and transfer the product into a properly labelled and tightly closed container.**6.4 Reference to other sections** Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.**SECTION 7: HANDLING AND STORAGE****7.1 Precautions for safe handling****Advice on safe handling** Use only in area provided with appropriate exhaust ventilation.**Advice on protection against fire and explosion** Care should be taken to avoid formation of dust from abraded granules.**Hygiene measures** When using, do not eat, drink or smoke. Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and immediately after handling the product.**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage areas and containers** Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from direct sunlight.**Advice on common storage** Keep away from food, drink and animal feedingstuffs.**Suitable materials** FIBC-PP (Polypropylen; approx.1000 l)**7.3 Specific end uses** Refer to the label and/or leaflet.**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION****8.1 Control parameters**

Components	CAS-No.	Control parameters	Update	Basis
Foramsulfuron	173159-57-4	10 mg/m ³ (TWA)		OES BCS*
Isoxadifen-ethyl	163520-33-0	1 mg/m ³ (TWA)		OES BCS*

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

8.2 Exposure controls

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In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

Wear respirator with a particle filter mask (protection factor 4) conforming to European norm EN149FFP1 or equivalent. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation. Always follow respirator manufacturer's instructions regarding wearing and maintenance.

Hand protection

Wear CE Marked (or equivalent) nitrile rubber gloves (minimum thickness 0,40 mm). Wash when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Wash hands always before eating, drinking, smoking or using the toilet.

Eye protection

Wear goggles (conforming to EN166, Field of Use = 5 or equivalent).

Skin and body protection

Wear standard coveralls and Category 3 Type 5 suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently.

General protective measures

Avoid contact with skin and eyes.
Do not breathe dust.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Form	water-dispersible granules
Colour	beige
pH	6,8 - 7,8 at 10 % (23 °C) (deionized water)
Bulk density	626 - 734 kg/m ³
Partition coefficient: n-octanol/water	Foramsulfuron: log Pow: 0,60
	Iodosulfuron-methyl: log Pow: 2,57
	Isoxadifen-ethyl: log Pow: 3,8
Dust content	nearly dust-free

9.2 Other information

Further safety related physical-chemical data are not known.

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Exposure time: 4 h
Determined in the form of a respirable fine dust.
Highest attainable concentration.
Not relevant because of low dust formation.**Acute dermal toxicity** LD50 (rat) > 5.000 mg/kg**Skin irritation** Slight irritant effect - does not require labelling. (rabbit)**Eye irritation** Slight irritant effect - does not require labelling. (rabbit)**Sensitisation** Sensitising (guinea pig)
OECD Test Guideline 406, Buehler test**Assessment repeated dose toxicity**

Foramsulfuron did not cause specific target organ toxicity in experimental animal studies.

Iodosulfuron-methyl did not cause specific target organ toxicity in experimental animal studies.

Isoxadifen-ethyl did not cause specific target organ toxicity in experimental animal studies.

Assessment Mutagenicity

Foramsulfuron was not mutagenic or genotoxic based on the overall weight of evidence in a battery of in vitro and in vivo tests.

Iodosulfuron-methyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Isoxadifen-ethyl was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment Carcinogenicity

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Foramsulfuron was not carcinogenic in lifetime feeding studies in rats and mice.
Iodosulfuron-methyl was not carcinogenic in lifetime feeding studies in rats and mice.
Isoxadifen-ethyl was not carcinogenic in lifetime feeding studies in rats and mice.

Assessment toxicity to reproduction

Foramsulfuron did not cause reproductive toxicity in a two-generation study in rats.
Iodosulfuron-methyl did not cause reproductive toxicity in a two-generation study in rats.
Isoxadifen-ethyl did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Foramsulfuron did not cause developmental toxicity in rats and rabbits.
Iodosulfuron-methyl did not cause developmental toxicity in rats and rabbits.
Isoxadifen-ethyl did not cause developmental toxicity in rats and rabbits.

Further information

The toxicological data refer to a similar formulation.

SECTION 12: ECOLOGICAL INFORMATION**12.1 Toxicity****Toxicity to fish**

LC50 (Rainbow trout (*Oncorhynchus mykiss*)) 2,6 mg/l
Exposure time: 96 h

LC50 (*Lepomis macrochirus* (Bluegill sunfish)) 2,8 mg/l
Exposure time: 96 h

Toxicity to aquatic invertebrates

EC50 (Water flea (*Daphnia magna*)) > 100 mg/l
Exposure time: 48 h

Toxicity to aquatic plants

EC50 (*Pseudokirchneriella subcapitata*) 0,74 mg/l
Exposure time: 96 h

12.2 Persistence and degradability**Biodegradability**

Foramsulfuron: not rapidly biodegradable

Iodosulfuron-methyl: not rapidly biodegradable

Isoxadifen-ethyl: not rapidly biodegradable

Koc

Foramsulfuron: Koc:38 - 151

Iodosulfuron-methyl: Koc:0,8 - 152

Isoxadifen-ethyl: Koc:2512

12.3 Bioaccumulative potential**Bioaccumulation**

Foramsulfuron:
Does not bioaccumulate.

Iodosulfuron-methyl:
Does not bioaccumulate.

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	Isoxadifen-ethyl: Does not bioaccumulate.
12.4 Mobility in soil	
Mobility in soil	Foramsulfuron: Mobile in soils
	Iodosulfuron-methyl: Mobile in soils
	Isoxadifen-ethyl: Slightly mobile in soils

12.5 Results of PBT and vPvB assessment

PBT and vPvB assessment	Foramsulfuron: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
	Iodosulfuron-methyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).
	Isoxadifen-ethyl: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).

12.6 Other adverse effects
Additional ecological
information

The ecological data refer to a similar formulation.

SECTION 13: DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Product	Do not dispose of waste into sewer. In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant.
Contaminated packaging	Triple rinse containers. Add washings to sprayer at time of filling. The empty containers must be taken, where possible, to a waste collection system licensed for waste management of packaging materials in agriculture.

SECTION 14: TRANSPORT INFORMATIONADR/RID/ADN
14.1 UN number**3077**

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14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ISOXADIFEN-ETHYL MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES
Hazard no.	90
Tunnel Code	E

This classification is in principle not valid for carriage by tank vessel on inland waterways. Please refer to the manufacturer for further information.

IMDG

14.1 UN number	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ISOXADIFEN-ETHYL MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Marine pollutant	YES

IATA

14.1 UN number	3077
14.2 Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ISOXADIFEN-ETHYL MIXTURE)
14.3 Transport hazard class(es)	9
14.4 Packing group	III
14.5 Environm. Hazardous Mark	YES

14.6 Special precautions for user

See sections 6 to 8 of this Safety Data Sheet.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No transport in bulk according to the IBC Code.

SECTION 15: REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

Further information

WHO-classification: U (Unlikely to present acute hazard in normal use)

15.2 Chemical Safety Assessment

A chemical safety assessment is not required.

SECTION 16: OTHER INFORMATION

Text of R-phrases mentioned in Section 3

R22 Harmful if swallowed.



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R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Text of the hazard statements mentioned in Section 3

H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

The information contained within this Safety Data Sheet is in accordance with the guidelines established by Regulation (EU) 1907/2006 and Regulation (EU) 453/2010 amending Regulation (EU) No 1907/2006 (and any subsequent amendments). This data sheet complements the user's instructions, but does not replace them. The information it contains is based on the knowledge available about the product concerned at the time it was compiled. Users are further reminded of the possible risks of using a product for purposes other than those for which it was intended. The required information complies with current EEC legislation. Addressees are requested to observe any additional national requirements.

Reason for Revision: Safety Data Sheet according to Regulation (EU) No. 453/2010.

Changes since the last version are highlighted in the margin. This version replaces all previous versions.