

**EQUIP OD45**Version 3 / EU
1020000113041/8
Revision Date: 28.12.2010
Print Date: 10.09.2012**1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING****Product information**

Trade name	EQUIP OD45
Product code (UVP)	06321801
Usage	Herbicide
Company	Bayer CropScience AG Alfred-Nobel-Straße 50 40789 Monheim am Rhein Germany
Telefax	+49(0)2173-38-7394
Responsible Department	Product Safety and Specification Mgmt +49(0)2173-38-3409/3189 (during business hours only) Email: MSDS@bayercropscience.com
Emergency telephone nr.	Global Incident Response Hotline (24h) +1 (760) 476-3964 (Company 3E for Bayer CropScience)

2. HAZARDS IDENTIFICATION**Risk advice to man and the environment**

Irritating to skin.

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS**Chemical nature**

Oil dispersion (OD)

Foramsulfuron + Isoxadifen-ethyl (22,5 + 22,5 g/l)

Hazardous components

Chemical Name	CAS-No. / EC-No.	Symbol(s)	R-phrase(s)	Concentration [%]
Foramsulfuron	173159-57-4		R52/53	2,34
Isoxadifen-ethyl	163520-33-0 443-870-0	Xn, N	R22, R43, R50/53	2,34
Solvent Naphtha (petroleum), heavy aromatic	64742-94-5 265-198-5	Xn, N	R51/53, R65, R66	> 10,00
Calcium dodecylbenzenesulfonate, branched	70528-83-5 274-654-2	Xi, N	R38, R41, R51/53	> 1,00 - <= 5,00
1-Octanol	111-87-5 203-917-6	Xi	R36/38	> 1,00 - <= 5,00

For the full text of the R-phrases/ Hazard statements mentioned in this Section, see Section 16.



EQUIP OD45

Version 3 / EU
102000011304

2/8

Revision Date: 28.12.2010

Print Date: 10.09.2012

4. FIRST AID MEASURES

General advice

- || Move out of dangerous area. Place and transport victim in stable position (lying sideways).
- || Remove contaminated clothing immediately and dispose of safely.

Inhalation

Move to fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.

Skin contact

Wash off thoroughly with plenty of soap and water, if available with polyethyleneglycol 400, subsequently rinse with water. If symptoms persist, call a physician.

Eye contact

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Get medical attention if irritation develops and persists.

Ingestion

- || Do NOT induce vomiting. Call a physician or poison control center immediately. Rinse mouth.

Notes to physician

Treatment

- || Treat symptomatically.
- || In case of ingestion gastric lavage should be considered in cases of significant ingestions only within the first 2 hours. However, the application of activated charcoal and sodium sulphate is always advisable.
- || There is no specific antidote.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

- || Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media which should not be used for safety reasons

- || High volume water jet

Specific hazards during fire fighting

In the event of fire the following may be released:

- Carbon monoxide (CO)
- nitrogen oxides (NO_x)
- Hydrogen chloride (HCl)

Special protective equipment for fire-fighters

- || In the event of fire and/or explosion do not breathe fumes.
- || In the event of fire, wear self-contained breathing apparatus.

Further information

- || Contain the spread of the fire-fighting media.
- || Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES



EQUIP OD45

Version 3 / EU
102000011304

3/8
Revision Date: 28.12.2010
Print Date: 10.09.2012

Personal precautions

- || Avoid contact with spilled product or contaminated surfaces.
- || Use personal protective equipment.
- || Remove all sources of ignition.

Environmental precautions

Do not allow to get into surface water, drains and ground water.

Methods for cleaning up

- || Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
- || Clean contaminated floors and objects thoroughly, observing environmental regulations.
- || Keep in suitable, closed containers for disposal.

Additional advice

Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

7. HANDLING AND STORAGE

Handling

Advice on safe handling

Use only in area provided with appropriate exhaust ventilation.

Advice on protection against fire and explosion

- || Take measures to prevent the build up of electrostatic charge.
- || Keep away from heat and sources of ignition.

Storage

Requirements for storage areas and containers

Keep containers tightly closed in a dry, cool and well-ventilated place.

Store in original container.

Store in a place accessible by authorized persons only.

Store bulk material and packed materials in a closed warehouse or under cover protected against direct sunlight and frost.

Advice on common storage

Keep away from food, drink and animal feedingstuffs.

Temperature tolerance	min.	max.
	0 °C	30 °C

Suitable materials

HDPE (high density polyethylene)

Only IBC 1000 liter are recommended as bulk container for re-filling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

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

**EQUIP OD45**Version 3 / EU
102000011304

4/8

Revision Date: 28.12.2010

Print Date: 10.09.2012

Isoxadifen-ethyl	163520-33-0	1 mg/m ³ (TWA)		OES BCS*
------------------	-------------	------------------------------	--	----------

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

Personal protective equipment

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 an organic vapours and gas filter mask (protection factor 10) conforming to EN140 type A or equivalent.
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 coverall and type 6 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. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.

Hygiene measures

- Avoid contact with skin, eyes and clothing.
- Keep working clothes separately.
- Wash hands before breaks and immediately after handling the product.
- Remove soiled clothing immediately and clean thoroughly before using again.
- Garments that cannot be cleaned must be destroyed (burnt).

9. PHYSICAL AND CHEMICAL PROPERTIES**Appearance**

Form	liquid
Colour	beige
Odour	aromatic

Safety data

pH	5,0 - 7,0 at 1 % (23 °C)
Flash point	> 110 °C
Density	ca. 0,96 g/cm ³ at 20 °C
Water solubility	dispersible
Viscosity, dynamic	25 - 100 mPa.s at 20 °C Velocity gradient 20 /s

**EQUIP OD45**Version 3 / EU
102000011304

5/8

Revision Date: 28.12.2010

Print Date: 10.09.2012

Viscosity, dynamic	20 - 60 mPa.s at 20 °C Velocity gradient 100 /s
Viscosity, kinematic	36 mm ² /s at 40 °C Shearstress of 20/sec
Surface tension	29,6 mN/m at 40 °C
Explosivity	Not explosive

10. STABILITY AND REACTIVITY

Hazardous reactions	No hazardous reactions known. Stable under recommended storage conditions.
---------------------	---

11. TOXICOLOGICAL INFORMATION

Acute oral toxicity	LD50 (rat) > 5.000 mg/kg
Acute inhalation toxicity	LC50 (rat) > 5,25 mg/l
Acute dermal toxicity	LD50 (rat) > 5.000 mg/kg
Skin irritation	Irritating to skin. (rabbit)
Eye irritation	Slight irritant effect - does not require labelling. (rabbit)
Sensitisation	Non-sensitizing. (mouse) OECD Test Guideline 429, local lymph node assay (LLNA)
Sensitisation	Non-sensitizing. (guinea pig) OECD Test Guideline 406, Buehler test
Further information	Information given is based on data obtained from similar substances.

12. ECOLOGICAL INFORMATION**Ecotoxicity effects**

Toxicity to fish	LC50 (Lepomis macrochirus (Bluegill sunfish)) 7,8 mg/l Exposure time: 96 h
Toxicity to aquatic invertebrates	EC50 (Water flea (Daphnia magna)) 6,9 mg/l Exposure time: 48 h
Toxicity to aquatic plants	EC50 (Selenastrum capricornutum) > 5 mg/l Growth rate; Exposure time: 96 h
Toxicity to aquatic plants	EC50 (Lemna gibba (duckweed)) 0,75 µg/l Growth rate; Exposure time: 7 d

**EQUIP OD45**Version 3 / EU
102000011304

6/8

Revision Date: 28.12.2010

Print Date: 10.09.2012

Further information on ecology

Additional ecological information

Information given is based on data obtained from similar substances.

13. DISPOSAL CONSIDERATIONS**Product**

|| 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

|| Not completely emptied packagings should be disposed of as hazardous waste.

Waste key for the unused product

020108 agrochemical waste containing dangerous substances

14. TRANSPORT INFORMATION**ADR/RID/ADNR**

UN-Number	3082
Labels	9
Packaging group	III
Hazard no.	90
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOXADIFEN-ETHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC SOLUTION)
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

UN-Number	3082
Labels	9
Packaging group	III
EmS	F-A , S-F
Marine pollutant	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOXADIFEN-ETHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC SOLUTION)

IATA

UN-Number	3082
Labels	9
Packaging group	III
Environm. Hazardous Mark	YES
Description of the goods	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (ISOXADIFEN-ETHYL, SOLVENT NAPHTHA (PETROLEUM) HEAVY AROMATIC SOLUTION)

**EQUIP OD45**Version 3 / EU
102000011304

7/8

Revision Date: 28.12.2010

Print Date: 10.09.2012

15. REGULATORY INFORMATION**Labelling in accordance with the EC Directive on dangerous preparations 1999/45/EC as amended.**

Classified as hazardous for supply/use.

Hazardous components which must be listed on the label:

- Isoxadifen-ethyl
- Foramsulfuron

Symbol(s)

Xi	Irritant
N	Dangerous for the environment

R-phrases(s)

R38	Irritating to skin.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases(s)

S35	This material and its container must be disposed of in a safe way.
S57	Use appropriate container to avoid environmental contamination.

Exceptional labelling

To avoid risks to man and the environment, comply with the instructions for use.
Contains isoxadifen-ethyl. May produce an allergic reaction.

Further information

II WHO-classification: III (Slightly hazardous)

16. OTHER INFORMATION**Further information**

Text of R-phrases mentioned in Section 3

R22	Harmful if swallowed.
R36/38	Irritating to eyes and skin.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	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.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.

The information given in this Data Sheet has been included in accordance with the guidelines established by Regulation (EC) 1907/2006. 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



EQUIP OD45

Version 3 / EU
102000011304

8/8

Revision Date: 28.12.2010

Print Date: 10.09.2012

additional national requirements.

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