

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : IMAGE 6% EC

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

Use of the Substance/Mixture : Herbicide

1.3 Details of the supplier of the safety data sheet

Company : Nufarm S.A.S
28 boulevard Zéphirin Camélinat
92230 Gennevilliers
Telephone : +330140855050
Telefax : +330147922545
E-mail address : FDS@fr.nufarm.com
Responsible/issuing person

1.4 Emergency telephone number

Nufarm S.A.S. : +33 1 40 85 51 15
National emergency telephone number : not available

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (67/548/EEC, 1999/45/EC)

Harmful R20/22: Harmful by inhalation and if swallowed.
Dangerous for the environment R36: Irritating to eyes.
R43: May cause sensitization by skin contact.
R63: Possible risk of harm to the unborn child.
R50/53: Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling according to EC Directives: 1999/45/EC

Hazard symbols :



SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

	Xn - Harmful	N - Dangerous for the environment
R-phrase(s)	: R20/22 R36 R43 R63 R50/53	Harmful by inhalation and if swallowed. Irritating to eyes. May cause sensitization by skin contact. Possible risk of harm to the unborn child. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	: S 2 S13 S20/21 S24/25 S26 S36/37 S46 S60 S61 SP 1 SPe 3	Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Avoid contact with skin and eyes. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing and gloves. If swallowed, seek medical advice immediately and show this container or label. This material and its container must be disposed of as hazardous waste. Avoid release to the environment. Refer to special instructions/ Safety data sheets. Do not contaminate water with the product or its container (Do not clean application equipment near surface water/Avoid contamination via drains from farmyards and roads). To protect aquatic organisms respect an unsprayed buffer zone of 20 m to surface water bodies.
Special labelling of certain mixtures	: To avoid risks to man and the environment, comply with the instructions for use.	

2.3 Other hazards

A Chemical Safety Assessment is not required for this mixture.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Chemical nature : Emulsifiable concentrate (EC)

Hazardous components

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
2-butoxyethyl (+)-2-(4-chloro-2-methylphenoxy)propionate	97659-39-7 307-443-1	Xn; R22 R43 N; R50/53	Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	44,72 %
2,6-dibromo-4-cyanophenyl octanoate	1689-99-2 216-885-3	Repr.Cat.3; R63 T; R23 Xn; R22 R43 N; R50-R53	Repr. 2; H361d Acute Tox. 3; H331 Acute Tox. 4; H302 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	14,8 %
4-cyano-2,6-diiodophenyl octanoate	3861-47-0 223-375-4	Repr.Cat.3; R63 T; R25 Xi; R36 R43 N; R50-R53	Repr. 2; H361d Acute Tox. 3; H301 Eye Irrit. 2; H319 Skin Sens. 1; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	13,63 %
Solvent naphtha (petroleum), heavy aromatic	64742-94-5	Xn; R65 R66 R67 N; R51/53	Asp. Tox. 1; H304 STOT SE 3; H336 Aquatic Chronic 2; H411	10% - 25%
Alkyl benzen sulfonate in 2-ethylhexanol	90194-26-6	Xn; R20 Xi; R41 R37/38		0% - 5%

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

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

- If inhaled : Move to fresh air.
- In case of skin contact : Take off all contaminated clothing immediately.
Wash immediately affected parts with plenty of water and soap.
- In case of eye contact : Rinse immediately with plenty of water for at least 15 minutes.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed : Clean mouth with water.
Do NOT induce vomiting.
If swallowed, seek medical advice immediately and show this container or label.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : Symptomatic treatment

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. In the event of fire (CO_x) may be formed.

Hazardous combustion products :

5.3 Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires. Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Refer to protective measures listed in sections 7 and 8.
Never return spills in original containers for re-use.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system. 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 : Soak up with inert absorbent material (e.g. sand, universal binder ...).
Pick up and transfer to properly labelled containers.

6.4 Reference to other sections

For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8.

Hygiene measures : Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep out of reach of children. Store in original container.

Advice on common storage : Keep away from food, drink and animal feeding stuffs.

7.3 Specific end use(s)

Specific use(s) : none

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

If the sub-section is blank, no value is applicable.

8.2 Exposure controls

Personal protective equipment

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

Eye protection : Safety glasses

Hand protection

Material : Nitrile gloves

Skin and body protection : Long sleeved clothing

Environmental exposure controls

General advice : Do not flush into surface water or sanitary sewer system.
If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : liquid

Colour : brown

Odour : aromatic

Odour Threshold : no data available

pH : 4,4, Method: CIPAC MT75.3

Melting point/range : not determined

Boiling point/boiling range : no data available

Flash point : 108 °C
Method: EEC A9

Evaporation rate : not applicable

Flammability (solid, gas) : not applicable

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : negligible

Relative vapor density : not applicable

Relative density : no data available

Density : ca. 1,18 g/cm³ at ca. 20 °C
Method: EN 12185

Water solubility : not determined

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

Solubility in other solvents	:	no data available
Partition coefficient: n-octanol/water	:	no data available
Auto-ignition temperature	:	386 °C Method: EEC A15
Ignition temperature	:	no data available
Thermal decomposition	:	no data available
Viscosity, dynamic	:	51,6 mPa.s at 20 °C Method: OECD Test Guideline 114 18,5 mPa.s at 40 °C
Viscosity, kinematic	:	no data available
Explosive properties	:	Not explosive
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

9.2 Other information

Surface tension : 25,4 mN/m, 25 °C, EEC A5

SECTION 10: Stability and reactivity

10.1 Reactivity

Stable under recommended storage conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.

10.4 Conditions to avoid

Conditions to avoid : No decomposition if stored and applied as directed.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available
Other information : no data available

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity	: LD50 rat: 687 mg/kg
Acute dermal toxicity	: LD50 rat: > 2.000 mg/kg
Skin corrosion/irritation	: Species: rabbit Result: No skin irritation
Serious eye damage/eye irritation	: Species: rabbit Result: Eye irritation
Respiratory or skin sensitization	: Result: Causes sensitization.
Germ cell mutagenicity	
Genotoxicity in vitro	: no data available
Carcinogenicity	: Species: no data available
STOT - single exposure	: Remarks: no data available
STOT - repeated exposure	: Remarks: no data available
Further information	: Information given is based on tests on the mixture itself.

Components:

2,6-dibromo-4-cyanophenyl octanoate :

Acute oral toxicity : Acute toxicity estimate : 500 mg/kg
Method: Converted acute toxicity point estimate

4-cyano-2,6-diiodophenyl octanoate :

Acute oral toxicity : Acute toxicity estimate : 100 mg/kg
Method: Converted acute toxicity point estimate

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

SECTION 12: Ecological information

12.1 Toxicity

Product:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 0,116 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,04 mg/l
Exposure time: 48 h
- Toxicity to algae : EbC50 (Pseudokirchneriella subcapitata (green algae)): 0,35 mg/l
Exposure time: 72 h
- ErC50 (Scenedesmus capricornutum (fresh water algae)): 1,5 mg/l
Exposure time: 72 h
- Toxicity to terrestrial organisms : LD50: > 222,5 µg/bee, oral
Species: Apis mellifera (bees)
- LD50: 148,5 µg/bee, contact
Species: Apis mellifera (bees)
- LC50: 175,8 mg/kg
Species: Eisenia fetida (earthworms)

Components:

2,6-dibromo-4-cyanophenyl octanoate :

M-Factor : 10

4-cyano-2,6-diiodophenyl octanoate :

M-Factor : 10

12.2 Persistence and degradability

Product:

Biodegradability : no data available

Physico-chemical removability : no data available

12.3 Bioaccumulative potential

Product:

Bioaccumulation : no data available

Partition coefficient: n-octanol/water : no data available

12.4 Mobility in soil

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

Product:

Mobility : no data available
Surface tension : 25,4 mN/m at 25 °C
EEC A5

12.5 Results of PBT and vPvB assessment

Product:

Assessment : A Chemical Safety Assessment is not required for this mixture.

12.6 Other adverse effects

Product:

Additional ecological information : No other known adverse effects on the environment

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Do not empty into drains.
Dispose of in accordance with local regulations.

Contaminated packaging : Do not re-use empty containers.
Dispose of empty packages through the specific collection services.

SECTION 14: Transport information

14.1 UN number

ADR : 3082
IMDG : 3082
IATA : 3082

14.2 Proper shipping name

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (Ioxynil octanoate, Bromoxynil octanoate, 2-butoxyethyl (+)-2-(4-chloro-2-methylphenoxy)propionate)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.

IATA : ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S.

14.3 Transport hazard class

ADR : 9
IMDG : 9
IATA : 9

14.4 Packing group

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

ADR

Hazard identification No : 90
Labels : 9
Tunnel restriction code : (E)

IMDG

Packaging group : III
Labels : 9
EmS Number : F-A,S-F

IATA

Packaging group : III
Labels : 9

14.5 Environmental hazards

ADR

Environmentally hazardous : yes

IMDG

Marine Pollutant : yes

IATA

Environmentally hazardous : yes

14.6 Special precautions for user

For personal protection see section 8.

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

Remarks : not applicable

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Period of re-entry on the plot: : 48 h

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

SECTION 16: Other information

Full text of R-Phrases

Acute Tox.	Acute toxicity
Aquatic Acute	Acute aquatic toxicity
Aquatic Chronic	Chronic aquatic toxicity
Asp. Tox.	Aspiration hazard

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012

Eye Irrit.	Eye irritation
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R23	Toxic by inhalation.
R25	Toxic if swallowed.
R36	Irritating to eyes.
R37/38	Irritating to respiratory system and skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R50	Very toxic to aquatic organisms.
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.
R53	May cause long-term adverse effects in the aquatic environment.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.
Repr.	Reproductive toxicity

Full text of H-Statements

H301	Toxic if swallowed.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Further information

Other information : Alterations are indicated in the left hand margin by: II
This version replaces all previous versions.

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

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006 and Regulation (EC) No. 453/2010



IMAGE 6% EC

Version 3.1

Revision Date 27.11.2012

Print Date 27.11.2012
