

CLINIC 360 SL

Version 3.0

Revision Date 23.10.2012

Print Date 24.10.2012

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

1.1 Product identifier

Trade name : CLINIC 360 SL

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)

R51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Labelling according to EC Directives: Classification and labelling according to the regulation of the European Community :

Hazard symbols :



N - Dangerous for the environment

R-phrase(s) :

R51/53

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

S-phrase(s) :

S 2

Keep out of the reach of children.



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| | |
|---------------|---|
| S13 | Keep away from food, drink and animal feedingstuffs. |
| S20/21 S46 | When using do not eat, drink or smoke. If swallowed, seek medical advice immediately and show this container or label. |
| S60 | This material and its container must be disposed of as hazardous waste. |
| S61 | Avoid release to the environment. Refer to special instructions/ Safety data sheets. |
| SP 1 | 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). |
| SPe 3 | To protect aquatic organisms respect an unsprayed buffer zone of 5 to 50 m to surface water bodies. |
| SPe 3 | To protect non-target plants, respect an unsprayed buffer zone of 5 m to non-agricultural land. |

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 : Soluble concentrate(SL)

Hazardous components

| Chemical Name | CAS-No. EC-No. Registration number | Classification (67/548/EEC) | Classification (REGULATION (EC) No 1272/2008) | Concentration [%] |
|--------------------------------|--|-----------------------------|---|-------------------|
| Glyphosate isopropylamine salt | 38641-94-0 254-056-8 | N; R51-R53 | Aquatic Chronic 2; H411 | 41,5 % |
| Tallowamineethoxylate | 61791-26-2 | Xn; R22 R36/38 N; R50 | Acute Tox. 4; H302 Aquatic Acute 1; H318 Eye Dam. 1; H400 | 8,1 % |

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



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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.
- 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



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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.

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. Store at temperature above - 5°C

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

7.3 Specific end use(s)

Specific use(s) : none



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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

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 : yellow-orange

Odour : odourless

Odour Threshold : no data available

pH : 4,6, Concentration: 10,00 g/l
at 20 °C
Method: CIPAC MT75.3

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : > 100 °C
Method: ASTM D 93

Evaporation rate : not applicable



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| | |
|--|--|
| 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 | : 1,17 g/cm ³ at 20 °C |
| | Method: OECD Test Guideline 109 |
| Water solubility | : no data available |
| Solubility in other solvents | : no data available |
| Partition coefficient: n-octanol/water | : log Pow: < -3,2 (Glyphosate) |
| Ignition temperature | : no data available |
| Thermal decomposition | : no data available |
| Viscosity, dynamic | : 45,4 mPa.s at 20 °C |
| | Method: OECD Test Guideline 114 |
| 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 | : 44,11 mN/m, 25 °C, Method: EEC A.5 |
|-----------------|---|

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



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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

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product

Acute oral toxicity : LD50 rat: > 2.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : not applicable

Acute dermal toxicity : LD50 rat: > 4.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation : Species: rabbit
Result: No skin irritation
Method: OECD Test Guideline 404

Serious eye damage/eye irritation : Species: rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Respiratory or skin sensitization : Species: guinea pig
Result: Did not cause sensitization.
Method: OECD Test Guideline 406

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



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SECTION 12: Ecological information

12.1 Toxicity

Product:

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 7,5 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 8,5 mg/l
Exposure time: 48 h
- Toxicity to algae : EbC50 (Desmodesmus subspicatus (green algae)): 16 mg/l
Exposure time: 72 h
- ErC50 (Desmodesmus subspicatus (green algae)): 31 mg/l
Exposure time: 72 h
- Toxicity to terrestrial organisms : LD50: > 2.000 mg/kg
Species: Birds
Test substance: (Glyphosate)
- LD50: > 100 µg/bee, contact
Species: Apis mellifera (Honey bee)
- LD50: > 100 µg/bee, oral
Species: Apis mellifera (Honey bee)

Components:

Glyphosate isopropylamine salt :

- Toxicity to fish : LC50 : > 1.000 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 : 930 mg/l
Exposure time: 48 h
- Toxicity to algae : EC50 : 72,9 mg/l
Exposure time: 72 h

12.2 Persistence and degradability

Product:

- Biodegradability : no data available
- Physico-chemical removability : no data available

Components:

Glyphosate isopropylamine salt :

- Stability in water : (DT50)



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Degradation half life: 24 h

Stability in soil : DT50
Duration of dissipation:: 1.041 h

12.3 Bioaccumulative potential

Product:

Bioaccumulation : no data available

Partition coefficient: n-octanol/water : log Pow: < -3,2
(Glyphosate)

12.4 Mobility in soil

Product:

Mobility : no data available
Surface tension : 44,11 mN/m at 25 °C
Method: EEC A.5

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,



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IMDG : N.O.S. (Glyphosate isopropylamine salt, adjuvent)
: 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

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: : 6 h



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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 |
| Eye Dam. | Serious eye damage |
| R22 | Harmful if swallowed. |

Full text of H-Statements

| | |
|------|-----------------------------|
| H302 | Harmful if swallowed. |
| H318 | Causes serious eye damage. |
| H400 | Very toxic to aquatic life. |

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.