

SAFETY DATA SHEET ENSTAR

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

1.1. Product identifier

Product name ENSTAR

Product number PST034/2

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

Identified uses Herbicide.

1.3. Details of the supplier of the safety data sheet

Supplier Headland Amenity Ltd

1 Burr Elm Court Main Street Caldecote Cambridge Cambridgeshire CB23 7NU

Tel. +44 (0)1223 491090

sds.enquiries@headlandamenity.com

Contact person Wendy Johnson

Manufacturer Barclay Chemicals Manufacturing Ltd

Damastown Industrial Park

Damastown Way Mulhuddart Dublin 15

+353 1 811 29 00 info@barclay.ie

1.4. Emergency telephone number

Emergency telephone +353 86 385 77 69

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (EC 1272/2008)

Physical hazards Not Classified

Health hazards Acute Tox. 4 - H302 Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 STOT SE 3 - H336 Asp. Tox. 1 -

H304

Environmental hazards Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

2.2. Label elements

Pictogram







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Signal word Danger

Hazard statements H302 Harmful if swallowed.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H410 Very toxic to aquatic life with long lasting effects. H304 May be fatal if swallowed and enters airways.

Precautionary statements P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. P312 Call a POISON CENTRE/doctor if you feel unwell.

P337+P313 If eye irritation persists: Get medical advice/ attention.

P362 Take off contaminated clothing.

P391 Collect spillage.

P403+P233 Store in a well-ventilated place. Keep container tightly closed. P501 Dispose of contents/ container in accordance with national regulations.

Contains 2-ETHYLHEXYL 2, 4-DICHLOROPHENOXYACETATE, HYDROCARBONS, C10,

AROMATICS, <1% NAPTHALENE, DICAMBA (ISO), TALLOW ALKYLAMINE ETHOXYLATE,

2-METHYLPROPAN-1-OL

2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

2-ETHYLHEXYL 2, 4-DICHLOROPHENOXYACETATE

30-60%

CAS number: 1928-43-4 EC number: 217-673-3 M factor (Acute) = 1 M factor (Chronic) = 1

Classification

Acute Tox. 4 - H302 Skin Sens. 1 - H317 Aquatic Acute 1 - H400 Aquatic Chronic 1 - H410

FLUOROXYPYR-MEPTYL (ISO)

10-30%

CAS number: 81406-37-3 EC number: 279-752-9 M factor (Acute) = 1 M factor (Chronic) = 1

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

Aquatic Acute 1 - H400 N; R50/53

Aquatic Chronic 1 - H410

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HYDROCARBONS, C10, AROMATICS, <1% NAPTHALENE

10-30%

CAS number: — EC number: 918-811-1

Classification

STOT SE 3 - H336 Asp. Tox. 1 - H304 Aquatic Chronic 2 - H411

CALCIUM DODECYLBENZE SULPHONATE

1-5%

Classification

Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

TALLOW ALKYLAMINE ETHOXYLATE

1-5%

Classification

Acute Tox. 4 - H302 Acute Tox. 2 - H330 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411

DICAMBA (ISO) 1-5%

CAS number: 1918-00-9 EC number: 217-635-6

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

Acute Tox. 4 - H302 Xn; R22. Xi; R41. R52/53

Eye Dam. 1 - H318 Aquatic Chronic 3 - H412

2-METHYLPROPAN-1-OL 1-5%

CAS number: 78-83-1 EC number: 201-148-0

Classification

Flam. Liq. 3 - H226 Skin Irrit. 2 - H315 Eye Dam. 1 - H318 STOT SE 3 - H335, H336

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Show this Safety Data Sheet to the medical personnel. Treat symptomatically.

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Inhalation Remove affected person from source of contamination. Remove person to fresh air and keep

comfortable for breathing. Loosen tight clothing such as collar, tie or belt. No special treatment

required. Get medical attention if any discomfort continues.

Ingestion Get medical attention immediately. Move affected person to fresh air and keep warm and at

rest in a position comfortable for breathing. Rinse mouth thoroughly with water. Keep affected person under observation. Do not induce vomiting unless under the direction of medical

personnel. Show this Safety Data Sheet to the medical personnel.

Skin contact Remove contaminated clothing immediately and wash skin with soap and water. Keep

affected person under observation. Get medical attention if irritation persists after washing.

Show this Safety Data Sheet to the medical personnel.

Eye contact Remove affected person from source of contamination. Get medical attention immediately.

Remove any contact lenses and open eyelids wide apart. Rinse cautiously with water for several minutes. Keep affected person under observation. Show this Safety Data Sheet to the

medical personnel.

4.2. Most important symptoms and effects, both acute and delayed

General information See Section 11 for additional information on health hazards.

Inhalation Coughing. Sore throat.

Ingestion May cause stomach pain or vomiting.

Skin contact May cause skin irritation.

Eye contact Causes serious eye irritation. Profuse watering of the eyes. Redness.

4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media

Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards None known.

Hazardous combustion

products

None known.

5.3. Advice for firefighters

Protective actions during

firefighting

Do not use water jet as an extinguisher, as this will spread the fire. Avoid breathing fire gases or vapours. Contain and collect extinguishing water. Fight fire from safe distance or protected location. If risk of water pollution occurs, notify appropriate authorities. Move containers from

fire area if it can be done without risk.

Special protective equipment

for firefighters

Use air-supplied respirator, gloves and protective goggles.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions For personal protection, see Section 8. Keep unnecessary and unprotected personnel away

from the spillage.

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6.2. Environmental precautions

Environmental precautions Very toxic to aquatic life with long lasting effects. Do not discharge into drains or watercourses

or onto the ground. Contain spillage with sand, earth or other suitable non-combustible

material. Environmental Manager must be informed of all major spillages.

6.3. Methods and material for containment and cleaning up

Methods for cleaning upContain spillage with sand, earth or other suitable non-combustible material. Collect spillage.

Place waste in labelled, sealed containers. Dispose of waste to licensed waste disposal site in

accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions Avoid contact with eyes. Do not empty into drains. Do not eat, drink or smoke when using this

product. Protect from freezing and direct sunlight.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Keep away from food, drink and animal feeding stuffs. Keep only in the original container.

Protect from freezing and direct sunlight.

Storage class Miscellaneous hazardous material storage.

7.3. Specific end use(s)

Specific end use(s) The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

DICAMBA (ISO)

Long-term exposure limit (8-hour TWA): WEL 10 mg/m³

2-METHYLPROPAN-1-OL

Long-term exposure limit (8-hour TWA): WEL 50 ppm 154 mg/m3 Short-term exposure limit (15-minute): WEL 75 ppm 231 mg/m³

WEL = Workplace Exposure Limit

8.2. Exposure controls

Protective equipment





Eye/face protection Tight-fitting safety glasses.

Hand protection Wear protective gloves made of the following material: Nitrile rubber.

Hygiene measures Do not eat, drink or smoke when using this product. Promptly remove any clothing that

becomes wet or contaminated. Provide eyewash station. Wash hands thoroughly after

handling.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

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Appearance Clear liquid.

Colour Brown.

Odour Characteristic.

pH pH (concentrated solution): 4.0

Melting point Not applicable.

Initial boiling point and range Not known.

Flash point Not known.

Evaporation rate Not known.

Vapour pressure Not known.

Vapour density Not known.

Relative density 1.050 - 1.090 @ 20°C

Bulk density Not known.

Solubility(ies) Miscible with water.

Viscosity Not known.

Comments Information given is applicable to the product as supplied.

9.2. Other information

Other information None.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid freezing. There are no known conditions that are likely to result in a hazardous

situation.

10.5. Incompatible materials

Materials to avoid None known.

10.6. Hazardous decomposition products

Hazardous decomposition

Does not decompose when used and stored as recommended.

products

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity - oral

ATE oral (mg/kg) 1,428.57

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Acute toxicity - inhalation

ATE inhalation (dusts/mists

mg/l)

8.84

Aspiration hazard

Aspiration hazard May be fatal if swallowed and enters airways.

Ingestion Harmful if swallowed.

Skin contact May cause skin irritation.

Eye contact Causes serious eye irritation.

SECTION 12: Ecological information

12.1. Toxicity

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 4.8 mg/l, Fish

Acute toxicity - aquatic

invertebrates

LC₅₀, 48 hours: 33.6 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 2.1 mg/l, Algae

12.2. Persistence and degradability

Persistence and degradability The degradability of the product is not known.

Not available. **Biodegradation**

12.3. Bioaccumulative potential

No data available on bioaccumulation. Bioaccumulative potential

12.4. Mobility in soil

Mobility The product is miscible with water and may spread in water systems.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB

assessment

This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

General information This material and its container must be disposed of as hazardous waste. Dispose of waste

product or used containers in accordance with local regulations

SECTION 14: Transport information

14.1. UN number

UN No. (ADR/RID) 3082

3082 UN No. (IMDG)

UN No. (ICAO) 3082

UN No. (ADN) 3082

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14.2. UN proper shipping name

Proper shipping name (ADR/RID)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Hydrocarbons, C10, aromatics, >1% napthalene, Tallow alkylamine ethoxylate)

Proper shipping name (IMDG) ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Hydrocarbons, C10, aromatics, >1% napthalene, Tallow alkylamine ethoxylate)

Proper shipping name (ICAO)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Hydrocarbons, C10, aromatics, >1% napthalene, Tallow alkylamine ethoxylate)

Proper shipping name (ADN)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (CONTAINS Hydrocarbons, C10, aromatics, >1% napthalene, Tallow alkylamine ethoxylate)

14.3. Transport hazard class(es)

ADR/RID class

9

M6

9

ADR/RID classification code

ADR/RID label

IMDG class 9

ICAO class/division 9

ADN class 9

Transport labels



14.4. Packing group

ADR/RID packing group

Ш

IMDG packing group

Ш

ICAO packing group

Ш

ADN packing group

Ш

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant



14.6. Special precautions for user

EmS F-A. S-F

ADR transport category 3

Emergency Action Code •3Z

Hazard Identification Number 90

(ADR/RID)

Tunnel restriction code (E)

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

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Transport in bulk according to Not applicable.

Annex II of MARPOL 73/78

and the IBC Code

SECTION 15: Regulatory information

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

EU legislation Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16

December 2008 on classification, labelling and packaging of substances and mixtures (as

amended).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of

Chemicals (REACH) (as amended).

15.2. Chemical safety assessment

An Exposure Scenario has not been prepared as a CSR was not required for registration.

SECTION 16: Other information

Revision comments This is the first issue.

Revision date 02/05/2019

Revision 1

SDS number 20551

Hazard statements in full H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H330 Fatal if inhaled.

H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness.

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. H412 Harmful to aquatic life with long lasting effects.