



## SAFETY DATA SHEET

### Hurler

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

##### 1.1. Product identifier

Product name                      Hurler

##### 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

Barclay Chemicals Manufacturing Ltd.  
 Damastown Industrial Park  
 Damastown Way  
 Mulhuddart  
 Dublin 15  
 +353 1 811 29 00  
 info@barclay.ie  
 +353 1 822 46 78

###### Manufacturer

Barclay Chemicals Manufacturing Ltd.  
 Damastown Industrial Park  
 Damastown Way  
 Mulhuddart  
 Dublin 15  
 +353 1 811 29 00  
 info@barclay.ie  
 +353 1 822 46 78

##### 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                      Flam. Liq. 3 - H226

Health hazards                      Skin Irrit. 2 - H315 Eye Irrit. 2 - H319 Skin Sens. 1 - H317 STOT SE 3 - H335, H336 Asp. Tox. 1 - H304

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

##### 2.2. Label elements

###### Pictogram



## Hurler

|                                       |  |
|---------------------------------------|--|
| <b>Signal word</b>                    | Danger   |
| <b>Hazard statements</b>              | <p>H226 Flammable liquid and vapour.<br/> H304 May be fatal if swallowed and enters airways.<br/> H315 Causes skin irritation.<br/> H317 May cause an allergic skin reaction.<br/> H319 Causes serious eye irritation.<br/> H335 May cause respiratory irritation.<br/> H336 May cause drowsiness or dizziness.<br/> H410 Very toxic to aquatic life with long lasting effects.</p>  |
| <b>Precautionary statements</b>       | <p>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br/> P233 Keep container tightly closed.<br/> P240 Ground/ bond container and receiving equipment.<br/> P241 Use explosion-proof electrical equipment.<br/> P242 Use only non-sparking tools.<br/> P243 Take precautionary measures against static discharge.<br/> P261 Avoid breathing vapour/ spray.<br/> P264 Wash contaminated skin thoroughly after handling.<br/> P271 Use only outdoors or in a well-ventilated area.<br/> P272 Contaminated work clothing should not be allowed out of the workplace.<br/> P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.<br/> P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.<br/> P302+P352 IF ON SKIN: Wash with plenty of water.<br/> P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.<br/> P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.<br/> P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.<br/> P331 Do NOT induce vomiting.<br/> P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.<br/> P337+P313 If eye irritation persists: Get medical advice/ attention.<br/> P362+P364 Take off contaminated clothing and wash it before reuse.<br/> P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.<br/> P403+P235 Store in a well-ventilated place. Keep cool.<br/> P405 Store locked up.<br/> P501 Dispose of contents/ container in accordance with national regulations.</p> |
| <b>Supplemental label information</b> | EUH401 To avoid risks to human health and the environment, comply with the instructions for use.   |
| <b>Contains</b>                       | Hydrocarbons, C9, Aromatic   |

### 2.3. Other hazards

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

## Hurler

|  |                        |
|--|------------------------|
| <b>Hydrocarbons, C9, Aromatic</b>  | <b>60-100%</b>         |
| CAS number: —  | EC number: 918-668-5   |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>STOT SE 3 - H335, H336<br>Asp. Tox. 1 - H304<br>Aquatic Chronic 2 - H411                   |                        |
| <b>fluroxypyr-meptyl (ISO)</b>   | <b>10-30%</b>          |
| CAS number: 81406-37-3   | EC number: 279-752-9   |
| M factor (Acute) = 1   | M factor (Chronic) = 1 |
| <b>Classification</b><br>Aquatic Acute 1 - H400<br>Aquatic Chronic 1 - H410  |                        |
| <b>Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts</b>   | <b>1-5%</b>            |
| CAS number: 68953-96-8   | EC number: 273-234-6   |
| <b>Classification</b><br>Acute Tox. 4 - H312<br>Skin Irrit. 2 - H315<br>Eye Dam. 1 - H318<br>Aquatic Chronic 2 - H411                      |                        |
| <b>butan-1-ol</b>  | <b>&lt;1%</b>          |
| CAS number: 71-36-3  | EC number: 200-751-6   |
| <b>Classification</b><br>Flam. Liq. 3 - H226<br>Acute Tox. 4 - H302<br>Skin Irrit. 2 - H315<br>Eye Dam. 1 - H318<br>STOT SE 3 - H335, H336 |                        |

The full text for all hazard statements is 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.

##### Inhalation

Remove affected person from source of contamination. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Loosen tight clothing such as collar, tie or belt. No special treatment required. Get medical attention if any discomfort continues.

## Hurler

|                     |  |
|---------------------|--|
| <b>Ingestion</b>    | 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. |
| <b>Skin contact</b> | Remove contaminated clothing immediately and wash skin with soap and water. Keep affected person under observation. Get medical attention. Show this Safety Data Sheet to the medical personnel.   |
| <b>Eye contact</b>  | 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

|                            |  |
|----------------------------|--|
| <b>General information</b> | See Section 11 for additional information on health hazards.   |
| <b>Inhalation</b>          | Coughing. Sore throat. Drowsiness, dizziness, disorientation, vertigo. Irritating to respiratory system. |
| <b>Ingestion</b>           | May cause stomach pain or vomiting. Aspiration hazard if swallowed.                                      |
| <b>Skin contact</b>        | May cause skin irritation. May cause an allergic skin reaction.  |
| <b>Eye contact</b>         | Causes serious eye irritation. Profuse watering of the eyes. Redness.                                    |

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

|                             |                        |
|-----------------------------|------------------------|
| <b>Notes for the doctor</b> | Treat symptomatically. |
|-----------------------------|------------------------|

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

|                                       |  |
|---------------------------------------|--|
| <b>Suitable extinguishing media</b>   | Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. |
| <b>Unsuitable extinguishing media</b> | Do not use water jet as an extinguisher, as this will spread the fire.           |

### 5.2. Special hazards arising from the substance or mixture

|                                      |                              |
|--------------------------------------|------------------------------|
| <b>Specific hazards</b>              | Flammable liquid and vapour. |
| <b>Hazardous combustion products</b> | None known.                  |

### 5.3. Advice for firefighters

|  |   |
|--|---|
| <b>Protective actions during firefighting</b>        | 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. |
| <b>Special protective equipment for firefighters</b> | Use air-supplied respirator, gloves and protective goggles.   |

## **SECTION 6: Accidental release measures**

### 6.1. Personal precautions, protective equipment and emergency procedures

|                             |  |
|-----------------------------|--|
| <b>Personal precautions</b> | For personal protection, see Section 8. Keep unnecessary and unprotected personnel away from the spillage. |
|-----------------------------|--|

### 6.2. Environmental precautions

## Hurler

**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 up** Contain 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 breathing vapour/spray. Do not empty into drains. Avoid contact with skin. 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** Flammable liquid 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

#### butan-1-ol

Short-term exposure limit (15-minute): WEL 50 ppm 154 mg/m<sup>3</sup>

Sk

WEL = Workplace Exposure Limit

Sk = Can be absorbed through the skin.

### 8.2. Exposure controls

#### Protective equipment



#### Appropriate engineering controls

Avoid inhalation of vapours and spray/mists.

#### 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.

#### Respiratory protection

If ventilation is inadequate, suitable respiratory protection must be worn.

## SECTION 9: Physical and Chemical Properties

## Hurler

### 9.1. Information on basic physical and chemical properties

|                         |   |
|-------------------------|---|
| <b>Appearance</b>       | Clear liquid.   |
| <b>Colour</b>           | Yellowish.  |
| <b>Odour</b>            | Hydrocarbons.   |
| <b>pH</b>               | pH (concentrated solution): 4.4 pH (diluted solution): 6.1 1% |
| <b>Flash point</b>      | 48°C / 118°F Method: CC (Closed cup).                         |
| <b>Relative density</b> | 0.96 - 0.98 @ 20°C  |
| <b>Viscosity</b>        | 2.88 mPa s @ 20°C 2.00 mPa s @ 40°C                           |
| <b>Comments</b>         | Information given is applicable to the product as supplied.   |

### 9.2. Other information

|                          |                          |
|--------------------------|--------------------------|
| <b>Other information</b> | No information required. |
|--------------------------|--------------------------|

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

|                   |   |
|-------------------|---|
| <b>Reactivity</b> | There are no known reactivity hazards associated with this product. |
|-------------------|---|

### 10.2. Chemical stability

|                  |   |
|------------------|---|
| <b>Stability</b> | Stable at normal ambient temperatures and when used as recommended. |
|------------------|---|

### 10.3. Possibility of hazardous reactions

|   |             |
|---|-------------|
| <b>Possibility of hazardous reactions</b> | None known. |
|---|-------------|

### 10.4. Conditions to avoid

|                            |   |
|----------------------------|---|
| <b>Conditions to avoid</b> | Avoid heat, flames and other sources of ignition. Avoid exposure to high temperatures or direct sunlight. |
|----------------------------|---|

### 10.5. Incompatible materials

|                           |                   |
|---------------------------|-------------------|
| <b>Materials to avoid</b> | Oxidising agents. |
|---------------------------|-------------------|

### 10.6. Hazardous decomposition products

|   |  |
|---|--|
| <b>Hazardous decomposition products</b> | No known hazardous decomposition products. |
|---|--|

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity - dermal

|                           |          |
|---------------------------|----------|
| <b>ATE dermal (mg/kg)</b> | 45,862.0 |
|---------------------------|----------|

#### Aspiration hazard

|                          |   |
|--------------------------|---|
| <b>Aspiration hazard</b> | May be fatal if swallowed and enters airways. |
|--------------------------|---|

#### Inhalation

May cause respiratory irritation. May cause drowsiness or dizziness.

#### Skin contact

Irritating to skin. May cause an allergic skin reaction.

#### Eye contact

Causes serious eye irritation.

## SECTION 12: Ecological Information

## Hurler

**Ecotoxicity** Very toxic to aquatic life with long lasting effects.

### 12.1. Toxicity

**Acute toxicity - fish** LC<sub>50</sub>, 96 hours: 31 mg/l, Algae

**Acute toxicity - aquatic invertebrates** LC<sub>50</sub>, 48 hours: 10.9 mg/l, Daphnia magna

**Acute toxicity - aquatic plants** LC<sub>50</sub>, 72 hours: 26.6 mg/l, Fish

### 12.2. Persistence and degradability

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

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

### 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** Not applicable.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**General information** Dispose of waste product or used containers in accordance with local regulations

## SECTION 14: Transport information

### 14.1. UN number

**UN No. (ADR/RID)** 1993

**UN No. (IMDG)** 1993

**UN No. (ICAO)** 1993

**UN No. (ADN)** 1993

### 14.2. UN proper shipping name

**Proper shipping name (ADR/RID)** FLAMMABLE LIQUID, N.O.S. (CONTAINS Hydrocarbons, C9, Aromatic, Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts)

**Proper shipping name (IMDG)** FLAMMABLE LIQUID, N.O.S. (CONTAINS Hydrocarbons, C9, Aromatic, Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts, fluroxyppy-meptyl (ISO))

**Proper shipping name (ICAO)** FLAMMABLE LIQUID, N.O.S. (CONTAINS Hydrocarbons, C9, Aromatic, Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts)

**Proper shipping name (ADN)** FLAMMABLE LIQUID, N.O.S. (CONTAINS Hydrocarbons, C9, Aromatic, Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts)

### 14.3. Transport hazard class(es)

**ADR/RID class** 3

## Hurler

|                             |    |
|-----------------------------|----|
| ADR/RID classification code | F1 |
| ADR/RID label               | 3  |
| IMDG class                  | 3  |
| ICAO class/division         | 3  |
| ADN class                   | 3  |

### Transport labels



### 14.4. Packing group

|                       |     |
|-----------------------|-----|
| ADR/RID packing group | III |
| IMDG packing group    | III |
| ICAO packing group    | III |
| ADN packing group     | III |

### 14.5. Environmental hazards

#### Environmentally hazardous substance/marine pollutant



### 14.6. Special precautions for user

|  |          |
|--|----------|
| EmS                                    | F-E, S-E |
| ADR transport category                 | 3        |
| Emergency Action Code                  | •3Y      |
| Hazard Identification Number (ADR/RID) | 30       |
| Tunnel restriction code                | (D/E)    |

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

## SECTION 15: Regulatory information

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

|                |  |
|----------------|--|
| EU legislation | Dangerous Preparations Directive 1999/45/EC.<br>Dangerous Substances Directive 67/548/EEC.<br>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).<br>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



## Hurler

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

### SECTION 16: Other information

|                                  |  |
|----------------------------------|--|
| <b>Revision date</b>             | 10/07/2017   |
| <b>Revision</b>                  | 3  |
| <b>Supersedes date</b>           | 14/09/2016   |
| <b>SDS number</b>                | 4965   |
| <b>Hazard statements in full</b> | H226 Flammable liquid and vapour.<br>H302 Harmful if swallowed.<br>H304 May be fatal if swallowed and enters airways.<br>H312 Harmful in contact with skin.<br>H315 Causes skin irritation.<br>H317 May cause an allergic skin reaction.<br>H318 Causes serious eye damage.<br>H319 Causes serious eye irritation.<br>H335 May cause respiratory irritation.<br>H336 May cause drowsiness or dizziness.<br>H400 Very toxic to aquatic life.<br>H410 Very toxic to aquatic life with long lasting effects.<br>H411 Toxic to aquatic life with long lasting effects. |

This 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. Such information is, to the best of the company's knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability of such information for his own particular use.