

# SAFETY DATA SHEET NURON

COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

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

#### 1.1. Product identifier

Product name NURON

Product number MAPP Number 17734

#### 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 Gemini Agriculture Limited

71-75 Shelton Street Covent Garden

WC2H 9JQ

+44 (0) 845 564 6959 sales@geminiag.com

## 1.4. Emergency telephone number

**Emergency telephone** +44 (0) 845 564 6959

# **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 Asp. Tox. 1 - H304

Environmental hazards Aquatic Chronic 1 - H410

# 2.2. Label elements

#### **Pictogram**









Signal word

Danger

Hazard statements

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

# **NURON**

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No

smoking.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water/ shower.

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

contact lenses, if present and easy to do. Continue rinsing.

Supplemental label

information

EUH401 To avoid risks to human health and the environment, comply with the instructions for

use.

Contains Prosulfocarb, Hydrocarbons, C10, aromatics, <1% naphthalene

Supplementary precautionary

statements

P233 Keep container tightly closed.

P240 Ground/ bond container and receiving equipment.

P241 Use explosion-proof electrical equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P261 Avoid breathing vapour/ spray.

P264 Wash contaminated skin thoroughly after handling.

P272 Contaminated work clothing should not be allowed out of the workplace.

P302+P352 IF ON SKIN: Wash with plenty of water. P321 Specific treatment (see medical advice on this label).

P331 Do NOT induce vomiting.

P332+P313 If skin irritation occurs: Get medical advice/ attention.

P333+P313 If skin irritation or rash occurs: Get medical advice/ attention.

P337+P313 If eye irritation persists: Get medical advice/ attention. P362+P364 Take off contaminated clothing and wash it before reuse.

P370+P378 In case of fire: Use foam, carbon dioxide, dry powder or water fog to extinguish.

P391 Collect spillage.

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P501 Dispose of contents/ container in accordance with national regulations.

## 2.3. Other hazards

None known.

#### SECTION 3: Composition/information on ingredients

## 3.2. Mixtures

Prosulfocarb 70-90%

CAS number: 52888-80-9 EC number: 401-730-6

Classification

Acute Tox. 4 - H302 Skin Sens. 1 - H317

Aquatic Chronic 2 - H411

#### NURON

### Hydrocarbons, C10, aromatics, <1% naphthalene

5-10%

CAS number: — EC number: 918-811-1

Classification

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

# CALCIUM BIS (DODECYLBENEZENESULPHONATE),

1-5%

**BRANCHED** 

 REACH registration number: 01-

2119560592-37-XXXX

Classification

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

ISO BUTANOL 1-5%

CAS number: 78-83-1 EC number: 201-148-0 REACH registration number: 01-

2119484609-23-XXXX

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 In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible). If medical advice is needed, have product container or label at hand. Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing.

Get medical attention immediately. Immediate first aid is imperative.

**Inhalation** Move affected person to fresh air and keep warm and at rest in a position comfortable for

breathing. If breathing stops, provide artificial respiration. Get medical attention immediately.

**Ingestion** Do not induce vomiting. Avoid vomiting and stomach flushing because of the risk of aspiration.

Get medical attention immediately. In case of accident or if you feel unwell, seek medical

advice immediately (show the label where possible).

Skin contact Take off immediately all contaminated clothing. Remove contaminated clothing and rinse skin

thoroughly with water. Get medical attention if irritation persists after washing. Wash

contaminated clothing before reuse.

Eye contact Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide

apart. Continue to rinse for at least 15 minutes. Get medical attention immediately.

**Protection of first aiders** First aid personnel should wear appropriate protective equipment during any rescue.

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

#### NURON

**Inhalation** Aspiration hazard if swallowed. May be fatal if swallowed and enters airways.

Ingestion Aspiration hazard if swallowed. May be fatal if swallowed and enters airways. Avoid vomiting

and stomach flushing because of the risk of aspiration. Danger of pulmonary oedema. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Pneumonia

may be the result if vomited material containing solvents reaches the lungs.

**Skin contact** Skin irritation. May cause sensitisation by skin contact.

**Eye contact** Causes serious eye irritation.

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

**Notes for the doctor** Do not induce vomiting. Treat symptomatically.

#### SECTION 5: Firefighting measures

## 5.1. Extinguishing media

**Suitable extinguishing media** Extinguish with alcohol-resistant foam, carbon dioxide or dry powder. Water spray.

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 Flammable liquid and vapour. Vapours may accumulate on the floor and in low-lying areas.

Vapours may form explosive mixtures with air. Vapours are heavier than air and may spread

near ground and travel a considerable distance to a source of ignition and flash back.

Hazardous combustion

products

Carbon dioxide (CO2). Carbon monoxide (CO).

#### 5.3. Advice for firefighters

Protective actions during

firefighting

No action shall be taken without appropriate training or involving any personal risk. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Control run-off water by containing and keeping it out of sewers and

watercourses. Contain and collect extinguishing water.

Special protective equipment

for firefighters

Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective

clothing.

#### SECTION 6: Accidental release measures

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

Personal precautions Persons susceptible to allergic reactions should not handle this product. Ensure procedures

and training for emergency decontamination and disposal are in place. No action shall be taken without appropriate training or involving any personal risk. Evacuate area. Keep unnecessary and unprotected personnel away from the spillage. Avoid contact with skin and eyes. Avoid heat, flames and other sources of ignition. Vapours may accumulate on the floor

and in low-lying areas.

# 6.2. Environmental precautions

Environmental precautions Very toxic to aquatic life with long lasting effects. Avoid discharge into drains or watercourses

or onto the ground. Avoid the spillage or runoff entering drains, sewers or watercourses.

## 6.3. Methods and material for containment and cleaning up

Methods for cleaning up No smoking, sparks, flames or other sources of ignition near spillage. Absorb in vermiculite,

dry sand or earth and place into containers. Containers with collected spillage must be

properly labelled with correct contents and hazard symbol.

# **NURON**

#### 6.4. Reference to other sections

Reference to other sections For personal protection, see Section 8. See Section 11 for additional information on health

hazards. See Section 12 for additional information on ecological hazards. For waste disposal,

see Section 13.

#### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

**Usage precautions** Persons susceptible to allergic reactions should not handle this product. Wear protective

clothing as described in Section 8 of this safety data sheet. Avoid inhalation of vapours/spray and contact with skin and eyes. Use only in well-ventilated areas. Keep out of the reach of children. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking. Take precautionary measures against static discharges.

Advice on general occupational hygiene

Persons susceptible to allergic reactions should not handle this product. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product. Good personal hygiene procedures should be implemented. Wash promptly with soap and water if skin becomes contaminated. Wash after use and before eating, smoking and using the toilet. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site.

#### 7.2. Conditions for safe storage, including any incompatibilities

Storage precautions Flammable liquid and vapour. Keep away from heat, hot surfaces, sparks, open flames and

other ignition sources. No smoking. Earth container and transfer equipment to eliminate sparks from static electricity. Static electricity and formation of sparks must be prevented. Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep away from

flammable and combustible materials.

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

ISO BUTANOL

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

WEL = Workplace Exposure Limit

#### CALCIUM BIS (DODECYLBENEZENESULPHONATE), BRANCHED (CAS: 26264-06-2)

**DNEL** Industry - Dermal; Long term systemic effects: 1.7 mg/kg/day

General population - Dermal; Long term systemic effects: 85 mg/kg/day General population - Oral; Short term systemic effects: 89 mg/kg/day

PNEC - Fresh water; 0.023 mg/l

- Marine water; 0.0023 mg/l

Sediment (Freshwater); 0.174 mg/kgSediment (Marinewater); 0.0174 mg/kg

- Soil; 0.62 mg/kg

- Intermittent release; 0.01 mg/l

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### ISO BUTANOL (CAS: 78-83-1)

**DNEL** Industry - Inhalation; Long term local effects: 308 mg/m<sup>3</sup>

> Professional - Inhalation; Long term local effects: 308 mg/m<sup>3</sup> General population - Oral; Long term systemic effects: 55 mg/kg General population - Oral; Long term systemic effects: 25 mg/kg

**PNEC** - Fresh water; 0.4 mg/l

> - Marine water; 0.04 mg/l - Intermittent release; 11 mg/l

- STP; 10 mg/l

- Sediment (Freshwater); 1.52 mg/kg - Sediment (Marinewater); 0.152 mg/kg

- Soil; 0.0699 mg/kg

#### 8.2. Exposure controls

#### Protective equipment













Appropriate engineering

controls

Provide adequate general and local exhaust ventilation.

Eye/face protection

Wear eye protection.

Hand protection

It is recommended that gloves are made of the following material: Nitrile rubber. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can

provide information about the breakthrough time of the glove material.

Other skin and body protection

Wear chemical protective suit.

Hygiene measures

Persons susceptible to allergic reactions should not handle this product. Good personal hygiene procedures should be implemented. Promptly remove any clothing that becomes wet or contaminated. Remove contaminated clothing and protective equipment before entering eating areas. Remove contaminated clothing and wash the skin thoroughly with soap and water after work. Wash after use and before eating, smoking and using the toilet. Wash at the end of each work shift and before eating, smoking and using the toilet. Wash hands and any other contaminated areas of the body with soap and water before leaving the work site. Do not eat, drink or smoke when using this product. Eye wash facilities and emergency shower must be available when handling this product.

Respiratory protection

Particulate filters should comply with European Standard EN143. Wear self-contained breathing apparatus.

**SECTION 9: Physical and Chemical Properties** 

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

**Appearance** Liquid.

Colour Light (or pale). to Brownish. Yellow.

Odour Aromatic.

Odour threshold No data available.

pН pH (diluted solution): 9.7 (1%)

59°C Flash point

#### NURON

Relative density 1.017 g/cm3

Solubility(ies) Miscible with water.

Auto-ignition temperature 380°C

**Viscosity** 17.8 mPa s @ 20°C 8.5 mPa s @ 40°C 8-9 mm2/s @ °C

**Explosive properties** Not applicable.

Oxidising properties Does not meet the criteria for classification as oxidising.

9.2. Other information

Other information No information available.

## SECTION 10: Stability and reactivity

## 10.1. Reactivity

**Reactivity** No information available.

10.2. Chemical stability

**Stability** No information available.

## 10.3. Possibility of hazardous reactions

Possibility of hazardous

reactions

None known. Will not polymerise.

10.4. Conditions to avoid

Conditions to avoid Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid Keep away from flammable and combustible materials.

## 10.6. Hazardous decomposition products

Hazardous decomposition

Carbon dioxide (CO2). Carbon monoxide (CO).

products

## SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

Acute toxicity - oral

Notes (oral LD<sub>50</sub>) >2000 mg/kg

Acute toxicity - dermal

Notes (dermal LD<sub>50</sub>) >4000 mg/kg

Acute toxicity - inhalation

Notes (inhalation LC<sub>50</sub>) >4.7 mg/l

Skin corrosion/irritation

**Skin corrosion/irritation** Irritating to skin.

Animal data Rabbit

Serious eye damage/irritation

Serious eye damage/irritation Irritating to eyes. Rabbit

Skin sensitisation

**Skin sensitisation** Buehler test - Guinea pig: Sensitising.

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Aspiration hazard

Aspiration hazard Aspiration hazard if swallowed. Entry into the lungs following ingestion or vomiting may cause

chemical pneumonitis.

**Inhalation** Aspiration hazard if swallowed. May be fatal if swallowed and enters airways.

**Ingestion** Aspiration hazard if swallowed. May be fatal if swallowed and enters airways. Danger of

pulmonary oedema. Entry into the lungs following ingestion or vomiting may cause chemical pneumonitis. Pneumonia may be the result if vomited material containing solvents reaches the

lungs.

**Skin contact** Causes skin irritation. May cause sensitisation by skin contact.

**Eye contact** Causes serious eye irritation.

#### **SECTION 12: Ecological Information**

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

12.1. Toxicity

Acute toxicity - fish LC₅₀, 96 hours: 3 mg/l, Onchorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic

invertebrates

EC<sub>50</sub>, 48 hours: 2.2 mg/l, Daphnia magna

#### 12.2. Persistence and degradability

Persistence and degradability There are no data on the degradability of this product.

# 12.3. Bioaccumulative potential

**Bioaccumulative potential** The product contains potentially bioaccumulating substances.

12.4. Mobility in soil

Mobility Prosulfocarb Semi-mobile.

Surface tension 32.2 mN/m @ 20.5°C

# 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** Waste is classified as hazardous waste.

Disposal methods Incineration or landfill should only be considered when recycling is not feasible. Dispose of

waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not reuse empty containers. Empty containers or liners may retain some product residues and hence be potentially hazardous. Residues and empty containers should be taken care of as hazardous waste according to local and national provisions.

#### SECTION 14: Transport information

#### 14.1. UN number

## **NURON**

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

FLAMMABLE LIQUID, N.O.S. (2-methylpropan-1-ol)

(ADR/RID)

Proper shipping name (IMDG) FLAMMABLE LIQUID, N.O.S. (2-methylpropan-1-ol)

Proper shipping name (ICAO) FLAMMABLE LIQUID, N.O.S. (2-methylpropan-1-ol)

Proper shipping name (ADN) FLAMMABLE LIQUID, N.O.S. (2-methylpropan-1-ol)

## 14.3. Transport hazard class(es)

ADR/RID class 3

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

ADN packing group

ICAO packing group

#### 14.5. Environmental hazards

## Environmentally hazardous substance/marine pollutant

No.

# 14.6. Special precautions for user

EmS F-E, S-E

ADR transport category 3

Emergency Action Code •3Y

Hazard Identification Number

(ADR/RID)

Tunnel restriction code (D/E)

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

30

# **NURON**

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

National regulations Control of Substances Hazardous to Health Regulations 2002 (as amended).

EH40/2005 Workplace exposure limits.

Health and Safety at Work etc. Act 1974 (as amended).

The Control of Substances Hazardous to Health Regulations 2002 (SI 2002 No. 2677) (as

amended).

Control of Pollution Act 1974. Fire Precautions Act 1971.

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).

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).

**EU legislation** COMMISSION REGULATION (EU) 2015/830 of 28 May 2015.

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).

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).

**Guidance** The spraying of flammable liquids HSG178.

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

Not applicable.

#### **SECTION 16: Other information**

**Revision comments** This is first issue.

**Issued by** HS&E Manager.

Revision date 23/08/2016

Revision 1

SDS number 40671

SDS status Approved.

## **NURON**

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.

H335 May cause respiratory irritation.

H336 May cause drowsiness or dizziness.

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.

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.