

According to Regulation (EC) No. 1907/2006 Version 1 Revision Date: 08/04/2015

Print Date: 11/08/2015

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

1.1 Product identifier

Product Name:

Hygrass Extra

Product Number(s):

P4405770 (5L), G4404679 (10L), G4404908 (30L)

1.2 Relevant identified uses of the substance or mixture and uses advised against Selective herbicide for the control of weeds in Amenity grassland and established grassland

1.3 Details of the supplier of the safety data sheet

Hygeia Chemicals Limited, Carrowmoneash, Oranmore, Co. Galway

Tel: 091-794722

Fax: 091-794738

email: services@hygeia.ie

1.4 **Emergency telephone number** 

National Poisons Information Centre (Tel: 01-8379964) (Fax: 01-8368476)

#### **Section 2: Hazards Identification**

#### 2.1 Classification according to Regulation (EC) 1272/2008 [EU-GHS/CLP]

#### 2.2 **Label Elements**

Labelling according to Regulation (EC) No 1272/2008 (CLP):









GHS07



GHS09

#### Signal word: Danger

H302

Harmful if swallowed.

H318

Causes serious eye damage.

H317

May cause an allergic skin reaction.

H411

Toxic to aquatic life with long lasting effects.

**EUH401** 

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

for use.

P305+ P351+ - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P338

P301+

IF SWALLOWED: Call a POISON CENTER or doctor/ physician if you feel

P312

unwell.

- IF ON SKIN: Wash with plenty of soap and water. P302 + P352 P333 + - If skin irritation or rash occurs: Get medical advice/ attention. P313 P310

Immediately call a POISON CENTER or doctor/ physician.

Avoid release to the environment. P273

Dispose of contents/ container to a licensed hazardous-waste disposal contractor P501 or collection site except for empty clean containers which can be disposed of as

non hazardous waste.

#### 2.3. Other hazards

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

#### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature Aqueous solution of dimethylammonium salts

Contains 344 g/L 2,4-D and 120 g/L Dicamba

#### 3.2. Mixtures

#### Components:

2,4-D DMA

CAS-No.: EINECS-No. / ELINCS No.:

2008-39-1 217-915-8

REACH No.:

Concentration:

35.7 % (w/w)

Classification:

EG\_1272/08:

AcuteTox.4

H302 - Harmful if swallowed.

EyeDam.1 SkinSens.1 H318 - Causes serious eye damage. H317 - May cause an allergic skin reaction.

AquaticChronic2

H411 - Toxic to aquatic life with long lasting effects.

EEC/67/548: Xi

R41 - Risk of serious damage to eyes.

Xn

R22 - Harmful if swallowed.

R43 - May cause sensitization by skin contact.

N

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

the aquatic environment.

Dicamba DMA

CAS-No.:

2300-66-5 218-951-7

EINECS-No. / ELINCS No.:

REACH No.: Concentration:

12.4 % (w/w)

Classification:

EG 1272/08:

Eyelrrit.2

H319 - Causes serious eye irritation.

AquaticChronic3

H412 - Harmful to aquatic life with long lasting effects. R36 - Irritating to eyes.

EEC/67/548:

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects

in the aquatic environment.

2,4-Dichlorophenol CAS-No.: EINCS-No. / ELINCS No.:

REACH No .: Concentration: 120-83-2

204-429-6

01-2119513326-47 0.1 % (w/w)

Classification: EG\_1272/08:

EEC/67/548:

AcuteTox.3 AcuteTox.4

H311 - Toxic in contact with skin.

H302 - Harmful if swallowed. H314 - Causes severe skin burns and eye damage.

SkinCorr.1B AquaticChronic2

H411 - Toxic to aquatic life with long lasting effects.

R24 - Toxic in contact with skin. R22 - Harmful if swallowed.

Xn С N

R34 - Causes burns.

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

4. FIRST AID MEASURES

4.1. Description of first aid measures

Eye contact

: Rinse immediately with plenty of water, also under the eyelids.

for at least 15 minutes. If eye irritation persists, consult a

specialist.

Skin contact

: Take off all contaminated clothing immediately. Wash off

immediately with soap and plenty of water. If symptoms persist, call a physician. Wash contaminated clothing before re-use.

Inhalation

: Move to fresh air. If symptoms persist, call a physician.

Ingestion

: Do NOT induce vomiting. Rinse mouth. If conscious, drink

plenty of water. If symptoms persist, call a physician.

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

**Symptoms** 

Sweating, headache, Weakness, Diarrhoea, anorexia, nausea,

Salivation, stomach pains, blurred vision, muscle twitching, Convulsions, Loss of reflexes, heart and circulatory collaps.

Coma

Hazards

: No information available.

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

Treatment

: Treat symptomatically.

#### 5. FIREFIGHTING MEASURES

### 5.1. Extinguishing media

Suitable extinguishing

media

: Water spray, Carbon dioxide (CO2), Dry powder, Alcohol-

resistant foam

Extinguishing media which shall not be used for safety

reasons

: High volume water jet

# 5.2. Special hazards arising from the substance or mixture

Specific hazards during

firefighting

: In the event of fire (HCI,CI2,CO) may be formed.

#### 5.3. Advice for firefighters

Special protective equipment for firefighters

: Use personal protective equipment. Wear self contained

breathing apparatus for fire fighting if necessary.

**Further Information** 

: Standard procedure for chemical fires. Collect contaminated

fire extinguishing water separately. This must not be

discharged into drains.

#### 6. ACCIDENTAL RELEASE MEASURES

# 6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protective equipment. (see Chapter 8)

#### 6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system.

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

Methods for cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel, acid

binder, universal binder). Sweep up and shovel into suitable

containers for disposal.

Additional advice

: Never return spills in original containers for re-use.

#### 6.4. Reference to other sections

see Chapter 13

# 7. HANDLING AND STORAGE

#### 7.1. Precautions for safe handling

Safe handling advice

: Wear personal protective equipment. Keep out of reach of

children.

# 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

: Store in original container. Keep containers tightly closed in a

cool, well-ventilated place.

Advice on common storage : Keep out of reach of children. Keep away from food, drink and

animal feeding stuffs.

Storage stability

Storage temperature

: >0°C

# 7.3. Specific end use(s)

none

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

# 8.1. Control parameters

Components with workplace control parameters

(EH40/2005 Workplace exposure limits)

Components	CAS-No.	National occupational exposure limits	Note
2,4-D DMA	2008-39-1	10 mg/m3	
Dicamba DMA	2300-66-5		no classification available, not listed in EH40/2005
2,4-Dichlorophenol	120-83-2		no classification available, not listed in EH40/2005

#### 8.2. Exposure controls

# Personal protective equipment

Respiratory protection

: Suitable respiratory protection for higher concentrations or long-term effect: Combination filter for gases/vapours of

organic, inorganic, acid inorganic and alkaline compounds (e.g.

EN 14387 Type ABEK).

Hand protection

: Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374); E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5

mm), butyl rubber (0.7 mm) and other

Eye protection

: Safety glasses with side-shields (frame goggles) (e.g. EN 166)

Skin and body protection

: Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or

EN ISO 13982 in case of dust).

Hygiene measures

: Remove and wash contaminated clothing and gloves, including the inside, before re-use. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke.

Protective measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

# 9.1. Information on basic physical and chemical properties

#### Appearance

Physical state

: liquid at 20 °C,

Form

: Soluble concentrate

Colour

: brown

Odour

: amine-like

Start of crystallisation

: ca.0 °C

Aqueous solution

Boiling point/boiling range

: ca.100 °C

at 1,013 hPa Aqueous solution

Flash point

: > 103 °C

Ignition temperature

: > 424 °C

Explosivity

: Not explosive

Upper explosion limit

: no data available

Lower explosion limit : no data available

Vapour pressure

: Active ingredients are organic salts. Vapour pressure is

negligibly low.

Density

: 1.16 g/cm3

at 20 °C

Water solubility

: completely miscible

Water solubility

: completely miscible

pН

: 8 - 10

6 - 9 at 10 g/l

Partition coefficient: n- :

octanol/water

no data available

Dissociation constant

: no data available

Viscosity, dynamic

: 10.6 mPa.s

at 20 °C

# 9.2. Other information

none

# 10. STABILITY AND REACTIVITY

# 10.1. Reactivity

no data available

# 10.2. Chemical stability

No decomposition if stored and applied as directed.

# 10.3. Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

#### 10.4. Conditions to avoid

No decomposition if stored and applied as directed.

# 10.5. Incompatible materials to avoid

Strong acids and strong bases

# 10.6. Hazardous decomposition products

no data available

# 11. TOXICOLOGICAL INFORMATION

# 11.1. Information on toxicological effects

Acute oral toxicity

: LD50 rat

Dose: 1,127 mg/kg

Acute dermal toxicity

: LD50 rat

Dose: > 2,000 mg/kg

Skin irritation

: rabbit

Result: Mild skin irritation

Eye irritation

: rabbit

Classification: Risk of serious damage to eyes.

Result: Severe eye irritation

Sensitisation

mouse

Result: May cause sensitization by skin contact.

# 12. ECOLOGICAL INFORMATION

# 12.1. Toxicity

Toxicity to birds

: Practically non toxic.

Toxicity to bees

: LD50 (oral) Apis mellifera (Honey bee)

Testing period: 24 h Dose (µg/Species): > 100 : LD50 (oral) Apis mellifera (Honey bee)

Testing period: 48 d Dose (µg/Species): > 100

: LD50 (oral) Apis mellifera (Honey bee)

Testing period: 72 h Dose (µg/Species): 95.91

: LD50 (contact) Apis mellifera (Honey bee)

Testing period: 96 h Dose (µg/Species): > 200

Toxicity to earthworms

: LC50 Eisenia fetida (earthworms)

Dose: > 1,000 ppm Testing period: 14 d

Toxicity to fish

LC50 Oncorhynchus mykiss (rainbow trout)

Dose: > 1,000 mg/l Testing period: 96 h

LC50 Cyprinus carpio (Common carp)

Dose: > 1,000 mg/l Testing period: 96 h

NOEC Pimephales promelas (Fathead Minnow)

Dose: 63.4 mg/l Testing period: 32 d Test substance: (2,4-D)

semi-static test NOEC Oncorhynchus mykiss (Rainbow trout)

Dose: 180 mg/l Testing period: 21 d Test substance: (Dicamba)

Toxicity to daphnia

: EC50 Daphnia magna (Water flea)

Dose: > 1,000 mg/l Testing period: 48 h

semi-static test NOEC Daphnia magna (Water flea)

Dose: 97 mg/l Testing period: 21 d Test substance: (Dicamba)

NOEC Daphnia magna (Water flea)

Dose: 46.2 mg/l

Testing period: 21 d Test substance: (2,4-D)

Toxicity to algae

: LC50 Desmodesmus subspicatus (green algae)

Dose: 204.6 mg/l Exposure time: 72 h

EC50 Lemna gibba (Duckweed)

Dose: 7.378 mg/l Exposure time: 7 d

NOEC Lemna gibba (Duckweed)

Dose: 0.32 mg/l Exposure time: 7 d

# 12.2. Persistence and degradability

Biodegradability

: no data available

Stability in soil

: DT50: 2.1 - 8 d

(Dicamba)

DT50: 2 - 59 d

(2,4-D)

Stability in water

: DT50: 13 d

(2,4-D)

DT50: 14 - 40 d (Dicamba)

# 12.3. Potential bioaccumulation

Bioaccumulation

: Does not bioaccumulate.

# 12.4. Mobility in soil

Koc= 5 - 212 (2,4-D)

Kfoc = 3.45 - 21.2, 1/n=0.72 - 0.93 (Dicamba)

# 12.5. Results of PBT and vPvB assessment

This mixture contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

#### 12.6. Other adverse effects

none

# 13. DISPOSAL CONSIDERATIONS

According to European Directive 2000/532/EC as amended:

Waste Code

: 02 01 08 (agrochemical waste containing dangerous

substances)

#### 13.1. Waste treatment methods

**Product** 

: Dispose of product and packaging in accordance with The

Green Code. (The Code of Practice for the safe use of Pesticides on Farms and Holdings.) A MAFF Publication.

Contaminated packaging

: Do not dispose with household waste. Do not re-use empty containers. Dispose at licensed waste disposal site capable of

accepting pesticides in compliance with applicable regulations.

according to EC directive 94/62/EC

# 14. TRANSPORT INFORMATION

#### 14.1. UN number

UN3082

#### 14.2. Proper shipping name

UN3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.\*(2,4-D)

#### 14.3. Transport hazard class(es)

ADR/RID:

Class

: 9

IMDG:

Class

: 9

IATA-DGR:

Class

: 9

# 14.4. Packaging group

ADR/RID

: 111

**IMDG** 

: 111

IATA-DGR

: 111

#### 14.5. Environmental hazards

**IMDG** 

Marine Pollutant

: MP

# 14.6. Special precautions for user

none

#### 15. REGULATORY INFORMATION

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

Other regulations

: The product is classified and labelled in accordance with EC

directives or respective national laws.

#### 15.2. Chemical Safety Assessment

none

#### 16. OTHER INFORMATION

**Print Date** 

2014/05/07

The date format YYYY/MM/DD is used according to ISO 8601. (Alterations are indicated in the left hand margin by: || )

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