





According to Regulation (EC) No. 1907/2006 Version 3 Revision Date: 13/05/2021

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

1.1 Product identifier

Product Name: DB Plus Underclear Product Number(s): G60270 (10L)

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

Controls broad leaved weeds in re-seeded grass

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]

Eye Dam. 1: H318; Acute Tox. 4; H302

Hazardous to aquatic environment 2; H411

2.2 Label Elements

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



GHS09



GHS06



GHS07

Hazard pictogram: GHS05 GHS07 GHS09

HSignal words: Danger

Hazard statements: H302: Harmful if swallowed H318: Causes serious eye damage H411: Toxic to aquatic life with long

lasting effects

EUH401: To avoid risk to human health and

the environment,

comply with instructions for use

Precautionary statements: P264: Wash ... thoroughly after handling

P270: Do not eat, drink or smoke when

using this product

P280: Wear protective gloves/protective

clothing/eye

protection/face protection

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P310: Immediately call a POISON CENTRE or

doctor/physician

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

waste

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2.3 Other hazards

This product is not identified as a PBT/vPvB substance

Section 3: Composition/information on ingredients

3.1 Substances

Not available

3.2 Mixtures

Name	No.	Classification	% Wt.
4-(2,4-dichlorophenoxy)	CAS No: 10433-59-7	Acute Tox. 4: H302;	20-30%
Butyric acid, sodium salt	EINECS: 233-917-1	Aquatic Chronic 2: H411;	
(2,4DB)		Eye Dam. 1: H318	
4-chloro-2-methylphenoxy acetic acid, potassium salt (MCPA-K)	CAS No: 5221-16-9 EINECS: 226-015-4	Acute Tox. 4: H302; Aquatic Chronic 1: H410; Aquatic Acute 1: H400; Acute Tox. 4: H312, H332	0-5%
Sodium Hydroxide	CAS No: 1310-73-2 EINECS: 215-185-5	Skin Corr. 1A: H314	0-1%
GIOVA			

4.1

Section 4: First Aid Measures

Description of First Aid Measures

Eye Contact: If substance has got into the eyes, immediately wash out with plenty of water for

at least 10 minutes maintaining eyelids open. Protect unharmed eye. Take care not to wash the chemical from one eye into the other. Obtain medical attention

immediately (show this Safety Data Sheet)

Skin Contact: Remove contaminated clothing immediately. If skin contamination occurs wash

immediately with plenty of clean, gently flowing water for at least 10 minutes. Repeat skin decontamination process until all signs of chemicals have gone.

Obtain medical attention immediately (show this Safety Data Sheet)

Ingestion: If ingestion is suspected, do not induce vomiting. If conscious, drink plenty of

water. Obtain medical attention immediately (show this Safety Data Sheet)

Inhalation: Move to fresh air. If there is breathing difficulty or coughing, keep patient at rest

seated in position of maximum comfort. Obtain medical attention immediately

(show this Safety Data Sheet)

4.2 Most important symptoms and effects, both acute and delayed

Not available

4.3 Indication of any immediate medical attention and special treatment needed

Immediately wash eyes with water

Section 5: Firefighting Measures

5.1 Extinguishing media

Extinguish with carbon dioxide, dry chemical, foam or water spray

5.2 Special hazards arising from the substance or mixture

May give off toxic fumes in a fire

5.3 Advice for firefighters

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Chemical protection suit to prevent contact with skin and eyes, suitable gloves for fire-fighters, boots and self-contained breathing apparatus

Section 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear appropriate protective clothing (see section 8)

6.2 Environmental precautions

Do not allow product to enter drains or water courses

6.3 Methods and material for containment and cleaning up

Soak up with inert absorbent material, place in suitable labelled containers and dispose as hazardous waste. Where appropriate, refer to Sections 8 & 13

6.4 Reference to other sections

Not Available

Section 7: Handling and Storage

7.1 Precautions for safe handling

When using, do not eat, drink or smoke. Avoid direct contact with the substance

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place to which children do not have access. Keep away from food, drink and animal feedstuff

7.3 Specific end use(s)

Not Available

Section 8: Exposure Controls/Personal Protection

Control Parameters 8.1

Occupational Exposure Standards:

Workplace Exposure Limits: No data available for 2,4DB Na

MCPA: 8h. TWA 10 mg/m³

15 min. STEL 20 mg/m^3

Sodium Hydroxide: 15 min STEL 2mg/m³

No data available **DNEL/PNEC:**

8.2 **Exposure Controls**

Engineering Control The usual precautionary measures for handling chemicals should

Measures: be observed

Hygiene Measures: When using do not eat, drink or smoke. Shower or bathe at the

end of working

Respiratory Protection: Wear suitable respiratory equipment **Skin and Body:** Wear suitable protective clothing **Hands:** Wear chemical resistant gloves Wear suitable eye/face protection **Eyes:**

Section 9: Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Appearance: Dark brown liquid

Odour: Phenolic

pH: 9 - 11.5 (typical) **Specific Gravity:** 1.150 g/ml (typical)

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Boiling Point: >100°C

Melting Point/Range: Not applicable, aqueous solution

Decomposition Temp.: No data available **Flash Point:** No data available **Auto Ignition Temp.:** No data available Flammability: Not flammable **Explosive Properties:** No data available

Oxidising Properties: Non-oxidising (by EC Criteria)

Vapour Pressure: No data available **Bulk Density:** Not applicable **Solubility (Water):** Soluble

Solubility (Fat Solvent): No data available

Partition Coefficient: n-octanol/water: 1.35 (DB), -0.81 (MCPA)

Viscosity: No data available

9.2 Other information

Not Available

Section 10: Stability and Reactivity

10.1 Reactivity

Stable under recommended transport or storage conditions

10.2 **Chemical stability**

Stable under recommended storage conditions

10.3Possibility of hazardous reactions

Hazardous reactions will not occur under normal transport or storage conditions.

Decomposition may occur on exposure to conditions or materials listed below

10.4Conditions to avoid

Avoid direct heat protect from frost

10.5 **Incompatible materials**

Avoid strong acids, strong bases and oxidising agents

10.6 Hazardous decomposition products

May generate toxic fumes of carbon dioxide and carbon monoxide

Section 11: Toxicological Information

11.1 Information on toxicological effects

2,4DB Na 400g/l

Acute Toxicity:

Ingestion: $LD_{50}/Oral/Rat = >667 \text{ mg/kg}$ **Skin Contact:** $LD_{50}/Dermal/Rat = >2000 \text{ mg/kg}$ **Eye Contact:**

Severe Irritant (Rabbit eye)

Inhalation: $LC_{50}/Inhalation (dust/mist) = >2.3 mg/kg$

Based on available data the classification criteria are not met **Carcinogenicity:** Based on available data the classification criteria are not met **Mutagenicity: Toxicity for Reproduction:** Based on available data the classification criteria are not met

Symptoms/Routes of Exposure:

Skin Contact: No symptoms

Eve Contact: There may be irritation and redness. The eyes may water

profusely

Ingestion: There may be soreness and redness of the mouth and throat.

Nausea and stomach pain may occur. There may be

vomiting

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Inhalation: No symptoms

Delayed/Immediate Effects: Immediate effects can be expected after short-term exposure

MCPA-K 400g/l

Toxicity Values:

Route	Species	Test	Value	Units
Respiratory or	GPG	Buehler	Not a skin	-
Skin			sensitiser	
Serious Eye	RBT	EPA OPPTS 8702400	Irritant	-
Damage				
Skin	RBT	EPA OPPTS 8702500	Non-Irritant	-
Corrosion/Irrit				
Dust/Mist	RAT	4H LC50	>5.21	mg/l
ORL	RAT	LD50	1662	mg/kg
SKN	RBT	LD50	>2000	mg/kg

Excluded Effects for Mixture:

Effect	Route	Basis
Repeated dose toxicity	-	Classified as non-hazardous because of lack of data
Carcinogenicity	-	Classified as non-hazardous because of lack of data
Mutagenicity	-	Classified as non-hazardous because of lack of data
Toxicity for Reproduction	-	Classified as non-hazardous because of lack of data

Symptoms/Routes of Exposure:

Skin Contact: There may be irritation and redness at the site of contact **Eye Contact:** There may be irritation and redness. The eyes may water

profusely

Ingestion: There may be soreness and redness of the mouth and throat.

Nausea and stomach pain may occur. There may be vomiting

Inhalation: There may be irritation to the throat with a feeling of

tightness in the chest

Delayed/Immediate Effects: Immediate effects can be expected after short-term exposure

Section 12: Ecological Information

12.1 Toxicity

2,4DB Na 400g/l

Toxicity to Fish: LC_{50/9}6hr/Rainbow Trout = 17.8 mg/l

Toxicity to Algae: $IC_{50}/72hr/Algae = 23.2 mg/l$

MCPA K 400g/l

Toxicity to Fish: LC50/96hr/Rainbow Trout = 99.3 mg/l **Toxicity to Aquatic** EC50/48hr/Daphnia Magna = 424.0 mg/l

Invertbrates:

Toxicity to Aquatic Plants: $ErC_{50}/72hr/Lemna\ Gibba\ G3 = 1.52\ mg/l$

ErC50/72hr/Navicula pelliculsa = 60.7 mg/l

12.2 Persistence & Degradability

Readily biodegrable

12.3 Bioaccumulative Potential

Potential for bioaccumulation is low based on log Pow

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12.4 **Mobility**

Readily absorbed into soil (MCPA) Limited Mobility in soil (2,4DB)

12.5 Results of PBT and vPvB assessment

This product is not identified as a PBT substance

12.6 **Other Adverse Effects**

No further relevant information available

Section 13: Disposal Considerations

Waste treatment methods 13.1

Product Disposal: Dispose of according to local and national regulations

Container Disposal: Triple rinse containers with water and dispose of according to local

and national regulations

Section 14: Transport Information

Not classified as hazardous for road transport under ADR

- 14.1 **UN number**
- 14.2 UN proper shipping name
- 14.3 Transport hazard class(es)
- 14.4 Packing group
- 14.5 **Environmental hazards**
- 14.6 Special precautions for user
- 14.7 Transport in bulk according to Annex II of MARP0L73/78 and the IBC Code

Section 15: Regulatory Information

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

No data available

Chemical safety assessment 15.2

No data available

Section 16: Other Information

Text of Phrases mentioned in Sections 2 and 3:

H-Statements	
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H319	Causes serious eye irritation
H332	Harmful if inhaled
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
EUH401	To avoid risk to human health and the environment, comply with instructions
	for use

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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 guidance for safe handling, use, processing, storage, transportation, disposal, release and is not to be considered a warranty of 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

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