



Versus 457.5 SL

Safety Data Sheet

according to the GHS Classification and labelling of chemicals – SANS 10234 and the Regulations for Hazardous agents 2021.

Issue date: 10/05/2023 Date of revision: 09/05/2026 Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Name : Versus 457.5 SL
Trade name : Versus 457.5 SL
Product code : UPL_L8879

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

1.2.1. Relevant identified uses

Main use category : Herbicide
Industrial/Professional use spec : For agricultural, industrial, professional use only
Use of the substance/mixture : A selective herbicide for the control of broadleaf weeds as listed on the product label on lawns, golf courses, bowling greens and sporting fields.

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

UPL LifeScience South Africa (Pty) Ltd.
7 Sunbury Office Park (off Douglas Saunders Drive)
La Lucia Ridge
P.O. Box 1726, Mount Edgecombe, 4300
4019 Durban - South Africa
T +27 31 514 5600
www.upl-ltd.com/za

1.4. Emergency telephone number

Emergency number : Griffon Poison Information Centre: 082 4468946,
Poisons Information Helpline: 0861 555 777,
In case of Spillage: Spill Tech: 086 100 0366 / 083 253 6618

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to UN GHS Purple Book (Rev. 9, 2021)

Acute toxicity (oral), Category 4	H302
Acute toxicity (dermal), Category 4	H312
Acute toxicity (Inhalation:dust,mist), Category 4	H332
Skin corrosion/irritation, Category 1B	H314
Serious eye damage/eye irritation, Category 1	H318
Skin sensitisation, Category 1	H317
Specific target organ toxicity — Single exposure, Category 3	H335+336
Hazardous to the aquatic environment — Acute Hazard, Category 2	H401
Hazardous to the aquatic environment — Chronic Hazard, Category 3	H412

Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to UN GHS Classification (Purple Book, Rev.9, 2021)

Hazard pictograms :



GHS05

GHS07

GHS08

Signal word : Danger

Hazardous ingredients : 2,4-D; Dicamba; MCPA; DMA (60%)

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Hazard statements	: H302 - Harmful if swallowed. H312 - Harmful in contact with skin. H332 - Harmful if inhaled. H314 - Causes severe skin burns and eye damage. H318 - Causes serious eye damage. H317 - May cause an allergic skin reaction. H335 +H336 - May cause respiratory irritation or may cause drowsiness or dizziness H401 - Toxic to aquatic life. H412 - Harmful to aquatic life with long lasting effects.
Precautionary statements	: P101 – If medical advise is needed, have product container or label at hand. P102 – Keep out of reach of children P103 – Read carefully and follow all instructions. P260 – Do not breath dust/fume/gas/mist/vapours/spray. P264+P265 - Wash hands, forearms and face thoroughly after handling. Do not touch eyes. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P272 - Contaminated work clothing should not be allowed out of the workplace. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P301 + P317 - IF SWALLOWED: Get medical help. P301 + P330 + P331 - IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P302 + P361 + P354 - IF ON SKIN: Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305 + P354 + P338 - IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P316 - Get emergency medical help immediately. P319 - Get medical help if you feel unwell. P321 - Specific treatment (see supplemental first aid instruction on this label). P330 - Rinse mouth. P333 + P317 - If skin irritation or rash occurs: Get medical help. P362+P364 - Take off contaminated clothing and wash it before reuse. P363 - Wash contaminated clothing before reuse. P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up. P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	Classification according to UN GHS Purple Book (Rev. 9, 2021)
2,4-D	(CAS-No.) 94-75-7 (EC-No.) 202-361-1 (EC Index-No.) 607-039-00-8	10 - 20	Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Chronic 3, H412
DMA (60%)	(CAS-No.) 124-40-3 (EC-No.) 204-697-4	10 - 20	Flam. Liq. 1, H224 Acute Tox. 4 (Oral), H302 Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Inhalation:gas), H332 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
MCPA	(CAS-No.) 94-74-6 (EC-No.) 202-360-6 (EC Index-No.) 607-051-00-3	10 - 20	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

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dicamba	(CAS-No.) 1918-00-9 (EC-No.) 217-635-6 (EC Index-No.) 607-043-00-X	10 - 20	Acute Tox. 4 (Dermal), H312 Acute Tox. 4 (Inhalation:dust,mist), H332 Eye Dam. 1, H318 Aquatic Chronic 3, H412
Specific concentration limits:			
Name	Product identifier	Specific concentration limits	
DMA (60%)	CAS-No.) 124-40-3 (EC-No.) 204-697-4	(5 =<C < 100) STOT SE 3, H335	

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor. Wash with plenty of water/.... If skin irritation or rash occurs: Get medical advice/attention. Specific treatment (see supplemental first aid instruction on this label). Wash contaminated clothing before reuse.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Call a POISON CENTER/doctor if you feel unwell. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: May cause an allergic skin reaction. May cause respiratory irritation.
Symptoms/effects after eye contact	: Causes serious eye damage.
Symptoms/effects after ingestion	: Swallowing a small quantity of this material will result in serious health hazard.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

No additional information available

5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures	: Evacuate unnecessary personnel.
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6.1.2. For emergency responders

Protective equipment	: Equip cleanup crew with proper protection.
Emergency procedures	: Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up	: Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.
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6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Wash hands, forearms and face thoroughly after handling. Wash contaminated clothing before reuse. Contaminated work clothing should not be allowed out of the workplace.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

2,4-D (ISO); 2,4-dichlorophenoxyacetic acid (94-75-7)

Austria - Occupational Exposure Limits

Local name	2,4-Dichlorphenoxyessigsäure (einschließlich Salze und Ester)
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MAK (mg/m ³)	1 mg/m ³
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MAK Short time value (mg/m ³)	4 mg/m ³
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Remark (AT)	H
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Regulatory reference	BGBI. II Nr. 186/2015
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United Kingdom - Occupational Exposure Limits

Local name	2,4-D (ISO)
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WEL TWA (mg/m ³)	10 mg/m ³
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WEL STEL (mg/m ³)	20 mg/m ³
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Regulatory reference	EH40/2005 (Third edition, 2018). HSE
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8.2. Exposure controls

Personal protective equipment:

Avoid all unnecessary exposure.

Hand protection:

Wear protective gloves.

Eye protection:

Chemical goggles or face shield

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Wear appropriate mask

Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Liquid

Colour : Clear dark brown to black

Odour : Mild amine odour

Odour threshold : No data available

pH : 5-8

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Relative evaporation rate (butylacetate=1)	: No data available
Shelf life	: 2 years
Storage stability	: Stable under normal storage conditions
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Non flammable.
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Density	: 1.090 ± 0.005
Relative density	: No data available
Solubility	: 100% in water
Water content	: 41.46%
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

Thermal decomposition generates : Corrosive vapours.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide. Thermal decomposition generates : Corrosive vapours.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in UN GHS Purple Book (Rev. 9, 2021)

Acute toxicity (oral)	: Harmful if swallowed.
Acute toxicity (dermal)	: Harmful in contact with skin
Acute toxicity (inhalation)	: Harmful if inhaled

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LD50 oral rat (calculated)	852.51 mg/kg (male rats)
LD50 dermal rabbit (calculated)	1568.89 mg/kg
LC50 inhalation rat (calculated)	4.17 mg/l

2,4-D (94-75-7)

LD50 oral rat	639 mg/kg
LD50 dermal rat	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 1.79 mg/l/4h

dicamba (1918-00-9)

LD50 oral rat	1581 mg/kg
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LD50 dermal rat	> 2000 mg/kg
LC50 inhalation rat (mg/l)	4.46 mg/l/4h

MCPA (94-74-6)

LD50 oral rat	962 mg/kg
LD50 dermal rat	> 4000 mg/kg
LC50 inhalation rat (mg/l)	> 6.36 mg/l/4h

Skin corrosion/irritation	: Causes severe skin burns and eye damage pH: 5 – 8
Serious eye damage/irritation	: Causes serious eye damage. pH: 5 – 8
Respiratory or skin sensitisation	: May cause an allergic skin reaction. pH: 5 – 8
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified Based on available data, the classification criteria are not met
STOT-single exposure	: May cause respiratory irritation or may cause drowsiness or dizziness pH: 5 – 8
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Potential adverse human health effects and symptoms	: Harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - water	: Harmful to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Harmful to aquatic life with long lasting effects.

2,4-D (94-75-7)

LC50 fish	100 mg/l (96h Pimephales promelas)
EC50 Daphnia	25 - 262 mg/l (48h Daphnia magna)
ErC50 (algae)	24.2 mg/l (96h Pseudokirchneriella subcapitata)
NOEC chronic fish	63.4 mg/l (32d Pimephales promelas)
NOEC chronic crustacea	46.2 mg/l (21d Daphnia magna)

dicamba (1918-00-9)

LC50 fish	> 100 mg/l (96h Cyprinus carpio)
ErC50 (algae)	> 4.1 mg/l (72h Skeletonema costatum)

MCPA (94-74-6)

LC50 fish	50 mg/l (96h)
EC50 Daphnia	> 190 mg/l/48h
EC50 72h algae (1)	117 mg/l/72h (Navicula pelliculosa)
NOEC chronic fish	15 mg/l (Pimephales promelas)
NOEC chronic crustacea	50 mg/l

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12.2. Persistence and degradability

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Persistence and degradability	May cause long-term adverse effects in the environment.
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MCPA (94-74-6)

Persistence and degradability	Not readily biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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2,4-D (94-75-7)

BCF fish	10 mg/l
Log Pow	-0.83 (pH=7; 25°C)

dicamba (1918-00-9)

Log Pow	-1.8 (pH: 6,8 ; 25°C ; 99,6%)
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MCPA (94-74-6)

Log Pow	-0.81 (0.01 mol/L, pH=7)
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12.4. Mobility in soil

dicamba (1918-00-9)

Surface tension	63.7 mN/m (20°C; 1g/L)
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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations





13.1. Waste treatment methods

Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

In accordance with ADR / IATA / IMDG / RID

ADR	IMDG	IATA	RID
14.1. UN number			
UN 1760	UN 1760	UN 1760	UN 1760
14.2. UN proper shipping name			
CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.	CORROSIVE LIQUID, N.O.S.
Transport document description			
UN 1760 CORROSIVE LIQUID, N.O.S...8, III, (-)	UN 1760 CORROSIVE LIQUID, N.O.S...8, III, (-)	UN 1760 CORROSIVE LIQUID, N.O.S...8, III, (-)	UN 1760 CORROSIVE LIQUID, N.O.S...8, III, (-)
14.3. Transport hazard class(es)			
8	8	8	8
			

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14.4. Packing group

III	III	III	III
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14.5. Environmental hazards

Dangerous for the environment : Yes	Dangerous for the environment : Yes Marine pollutant : Yes	Dangerous for the environment : Yes	Dangerous for the environment : Yes
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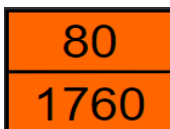
No supplementary information available

14.6. Special precautions for user

Overland transport

Hazard identification number (Kemler No.) : 80

Orange plates :



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

Not applicable

SECTION 15: Regulatory information

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

Regulatory Information:

Relevant regulatory information regarding authorization, Safety Data Sheets, Occupational Exposure Limits, Hazardous Substances, Dangerous Goods Transport and Waste South Africa: Occupational Health and Safety Act 1993. Regulations for Hazardous Chemical Agents - 2021. Fertilizer, Farm Feeds, Agricultural Remedies and Stock Remedies Act, 1947 (Act 36 of 1947). **Hazardous Substances Act**, 1973 (Act No.15 of 1973). Regulations for Hazardous Chemical Agents – 2021. SANS11014:2010. Safety Data Sheet for Chemical Products – Content and Order of Sections. SANS10206: 2020. The Handling, Storage and Disposal of Pesticides. National Road Traffic Act, 1996 (Act No. 93 of 1996). SANS 10228:2012- The identification and classification of dangerous goods for transport by road and rail modes. National Environmental Management: waste Act 59 of 2008.

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Data sources : Pesticide Manual, ECHA, Supplier SDS's

Other information : None.

Full text of H- statements:	
Acute Tox. 4 (dermal)	Acute toxicity (dermal), Category 4
Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Acute 2	Hazardous to the aquatic environment — Acute Hazard, Category 2
Aquatic Chronic 3	Hazardous to the aquatic environment — Chronic Hazard, Category 3
Skin Corr. 1B	Skin corrosion/irritation, Category 1B
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Skin Sens. 1	Skin sensitisation, Category 1
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3
H302	Harmful if swallowed.
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H332	Harmful if inhaled.
H335 +H336	May cause respiratory irritation or may cause drowsiness or dizziness

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H401	Toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.
EUH401	To avoid risks to human health and the environment, comply with the instructions for use.

Classification and procedure used to derive the classification for the mixture according to the UN GHS Purple Book (Rev.9, 2021):

Acute Tox. 4 (Oral)	H302	Calculation method
Acute Tox. 4 (dermal)	H312	Calculation method
Acute Tox. 4 (Inhalation:dust,mist)	H332	Calculation method
Skin Corr. 1B	H314	Calculation method
Eye Dam. 1	H318	Calculation method
Skin Sens. 1	H317	Calculation method
STOT SE 3	H335 +H336	Calculation method
Aquatic Acute 2	H401	Calculation method
Aquatic Chronic 3	H412	Calculation method

Safety Data Sheet (SDS), UN GHS

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.