

SECTION 1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY/UNDERTAKING

Product identifier:

Identification as on the label/Trade name: **SKOTVRY**

Relevant identification uses of the substance and uses advised against:

Identified uses: Herbicide.

Uses advised against: Use only as directed.

Details of the supplier of the Safety Data Sheet:

Green Island Investments Pty Ltd

P.O Box 1822, Heidelberg 1438

Emergency telephone numbers:

Griffon Poison information centre: 082 446 8946

Poisons Information Helpline: 0861 555 777

Spill Tech: 086 100 0366 (a/h)

SECTION 2. HAZARD IDENTIFICATION

Classification of the substances or

mixture The mixture is classified
according to

Acute Tox. 4 (oral)

Acute Tox. 4 (Inhalation - mist) Skin Corr./Irrit. 2

Eye Dam./Irrit. 2A

STOT SE 3 (irritating to respiratory system) Aquatic Acute 1

Aquatic Chronic

For full text of H statements see section 16

The most important adverse effects

The most important adverse physiochemical effects: None known..

The most important adverse human health effects: None known

Label elements - Hazard pictograms:



Signal Word: Warning

Hazard Statements:

H315	Causes skin irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P103	Read label before use.
P261	Avoid breathing mist.
P264	Wash contaminated body parts thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.

Special labelling of certain mixtures: None known.

Other hazards: None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture

Ingredients:

Name	Product identifier	%	Classification according to the United Nations GHS
Metolachlor 97% TC	CAS-No.: 87392-12-9	≥ 35 – < 40	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Acute Tox. 3 (Inhalation:vapour), H331 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Terbutylazine 97% TC	CAS-No.: 5915-41-3	≥ 10 – < 15	Acute Tox. 4 (Oral), H302 Acute Tox. 5 (Dermal), H313 Acute Tox. Not classified (Inhalation:dust,mist) STOT RE 2, H373 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Tristyrylphenol Ethoxylates	CAS-No.: 99734-09-5	≥ 1 – < 5	Aquatic Chronic 2, H411
Mesotrione 97% TC	CAS-No.: 104206-82-8	≥ 1 – < 5	Acute Tox. Not classified (Oral) Acute Tox. 5 (Dermal), H313 Acute Tox. 4 (Inhalation:dust,mist), H332 STOT RE 2, H373 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410

Sodium Dioctyl Sulphosuccinate sodium salt	CAS-No.: 577-11-7	$\geq 1 - < 5$	Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Skin Irrit. 2, H315 Eye Dam. 1, H318 Eye Irrit. 2A, H319 STOT RE Not classified Aquatic Acute 3, H402
amine salt of polyaryphenyl ether phosphate	CAS-No.: 105362-40-1	$\geq 1 - < 5$	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Polyethylene glycol	CAS-No.: 25322-68-3	$\geq 1 - < 5$	Flam. Liq. Not classified Acute Tox. 5 (Oral), H303 Acute Tox. 5 (Dermal), H313 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE Not classified Aquatic Acute Not classified Aquatic Chronic Not classified

For full text of H statements see section 16

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in section 8.

SECTION 4. FIRST AID MEASURES

Description of first aid measures:

In case of inhalation: If inhaled, remove to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

In case of skin contact: In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention.

In case of eye contact: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention.

In case of ingestion: Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

Most important symptoms and effects, both acute and delayed:

Anticipated acute effects: None Known

Anticipated delayed effects: None known

Most important symptoms / effects: None known.

Advice to physician: Treat symptomatically and supportively. No specific antidote known.

SECTION 5. FIRE -FIGHTING MEASURE

Extinguisher media:

Suitable extinguisher media: Carbon dioxide, foam dry chemical and water fog.

SMALL FIRE: Extinguish small fires with carbon dioxide, dry powder, or alcohol-resistant foam.

LARGE FIRE: Water spray can be used for larger fires or cooling of unaffected stock but avoid the accumulation of polluted run-off from the site.

Unsuitable extinguishing media: Do not use high volume water jet, due to contamination risk.

Special hazards arising from the mixture:

During a fire, irritating and possibly toxic gasses may be generated by thermal decomposition or combustion. Closed container may explode if pressure builds up. Toxic or irritating gas may be generated during fire.

Advice for fire-fighters:

Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Be sure to use an approved/certified respirator or equivalent.

SECTION 6. ACCIDENTAL RELEASE

Personal precautions, protective equipment and emergency procedures:

For non-emergency personnel: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

For emergency responders: Use an approved/certified respirator or equivalent, isolate the spill area and limit the access to emergency responders only. Avoid any contact with spilled material, use adequate protective clothes and gloves.

Environmental precautions:

Cover drains. Prevent from entering soil, ditches, sewers, waterways and/or groundwater.

Methods for containment and cleaning up:

For small spills Contain spilled material if possible. Collect in suitable and properly labelled containers. Absorb with materials such as: sand, earth, vermiculite or diatomaceous earth.

For large spills Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g., sand, earth, vermiculite or diatomaceous earth and place in well labelled container for disposal according to local regulations.

Reference to other sections:

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment. See section 13 for information on disposal.

Additional information:

None.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Use adequate protective equipment to avoid direct contact of product. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Do not get in eyes or on skin or clothing.

Protective measures: Observe directions on label and instructions for use.

Advice on general occupational hygiene: Do not eat drink or smoke when handling this product.

Conditions for safe storage, including incompatibilities:

Store product in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

Specific end uses:

Use as directed. Use original container.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure control:

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday. A Risk Assessment should be conducted before handling is to commence to determine specific exposure control.

Appropriate engineering controls: Provide exhaust ventilation or other engineering controls. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Individual protection measures, such as personal protective equipment:

Eye/face protection: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Hand protection: Use chemical resistant gloves. Examples of preferred glove barrier materials include



Nitrile/butadiene rubber, Polyethylene, Ethyl vinyl alcohol laminate, Polyvinyl alcohol, Polyvinyl chloride.

Body protection: Appropriate impervious clothing is required to prevent skin contact with the product.

Respiratory protection: Respiratory protection is required; use an approved air-purifying respirator.

Environmental exposure controls: Prevent product from entry into sewers and water courses.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	liquid
Colour:	dark yellow
Odour:	moderate odour, of the solvent contained in the product
Odour threshold:	Not determined since harmful by inhalation.
pH value:	approx. 3 - 6 (CIPAC standard water D, 1 %(m), 20 °C)
Boiling range:	Not available
Flash point:	No data
Evaporation rate:	not applicable
Flammability:	not flammable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.



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Upper explosion limit: As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: The product is stable under normal conditions.

Chemical stability: Stable under normal storage conditions for 2 years.

Possibility of hazardous reactions: Slightly reactive to reactive with reducing agents, alkalis.

Conditions to avoid: Reducing agents and alkalis.

Incompatible materials: Reducing agents and alkalis.

Hazardous decomposition products:

No information available.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Spectrum 538 SE (mesotrione 37,5 g/l + s-metolachlor 375 g/l + terbutylazine 125 g/l) ([104206-82-2] [87392-12-9] 5915-41-3)]

ATE ZA (Dermal)	2557.369 mg/kg bodyweight
ATE ZA (vapours)	3.104 mg/l/4h
Unknown acute toxicity (GHS ZA)Unknown acute toxicity (GHS ZA)	10.89% of the mixture consists of ingredient(s) of unknown acute toxicity (Oral) 45.17% of the mixture consists of ingredient(s) of unknown acute toxicity (Dermal) 63.3% of the mixture consists of ingredient(s) of unknown acute toxicity (Inhalation (Vapours))

Mesotrione 97% TC (104206-82-8)

LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat (Dust/Mist)	> 4.75 mg/l/4h

S-metolachlor 97% TC (87392-12-9)

LD50 oral rat	2672 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat	> 2.91 mg/l (4 h)

Terbutylazine 97% TC (5915-41-3)

LD50 oral rat	1000 – 1590 mg/kg (Rat, Literature study, Oral)
LD50 dermal rat	> 2000 mg/kg (Rat, Literature study, Dermal)
LD50 dermal rabbit	> 3000 mg/kg (Rabbit, Literature study, Dermal)
LC50 Inhalation - Rat (Dust/Mist)	> 5.3 mg/l/4h

Dodecylbenzene sulphonic acid, Ca salt (1335202-81-7)

LD50 oral rat	4445 mg/kg bodyweight Animal: rat, Animal sex: female
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Sodium Dioctyl Sulphosuccinate sodium salt (577-11-7)

LD50 dermal rabbit	> 10000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
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Polyethylene glycol (25322-68-3)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
poly(dimethylsiloxane) (9016-00-6)	
LD50 oral rat	> 5000 mg/kg (Rat, Literature study, Oral)
Xanthan gum (11138-66-2)	
LD50 oral rat	45000 mg/kg
1,2-Benzisothiazolin-3-one (2634-33-5)	
LD50 oral rat	490 mg/kg bodyweight (Equivalent or similar to OECD 401, Rat, Male / female, Experimental value, Oral, 14 day(s))
LD50 dermal rat	> 2000 mg/kg bodyweight (OECD 402: Acute Dermal Toxicity, 24 h, Rat, Male / female, Experimental value, Dermal, 14 day(s))

SECTION 12. ECOLOGICAL INFORMATION

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.

Mesotrione 97% TC (104206-82-8)	
LC50 - Fish [1]	> 120 mg/kg Bluegill sunfish
LC50 - Fish [2]	> 120 mg/kg Rainbow Trout
EC50 - Crustacea [1]	> 900 mg/l
EC50 - Other aquatic organisms [1]	0.0077 mg/l Lemna Gibba
ErC50 algae	0.028 mg/l (OECD 221: Lemna sp. Growth Inhibition Test, 7 day(s), Lemna gibba, Semi- static system, Experimental value)

Mesotrione 97% TC (104206-82-8)	
Partition coefficient n-octanol/water (Log Kow)	< -1
Additional ecotoxicological information	Birds: Acute Oral LD50 for bobwhite quail >2000 mg/kg. Dietary LC50 for bobwhite quail and mallard ducks >5200 mg/kg; Bees (LD50, mg/bee) >11 (oral) (formulated); >100 (contact) (formulated); Worms LD50 (14d) >2000 mg/kg
S-metolachlor 97% TC (87392-12-9)	
LC50 - Fish [1]	1.23 mg/l Rainbow Trout
LC50 - Fish [2]	3.16 mg/l Bluegill Sunfish
LC50 - Other aquatic organisms [1]	1.4 mg/l Mysid shrimps
LC50 - Other aquatic organisms [2]	0.023 mg/l Lemna gibba
EC50 - Crustacea [1]	11.24 mg/l (48 h)
Partition coefficient n-octanol/water (Log Kow)	3.05 pH 7
Additional ecotoxicological information	Birds: Acute oral LD50 for bobwhite quail > 2510 mg/kg. Dietary LC50 (8d) for mallard duck > 5620 ppm. Bees (LD50, mg/bee) > 0.2 (contact); >85 (oral); Worms LD50 (14d) for earthworms 570 mg/kg soil.
Terbuthylazine 97% TC (5915-41-3)	
LC50 - Fish [1]	2.2 mg/l Rainbow Trout
LC50 - Fish [2]	> 5.7 mg/l Mirror Carp
EC50 - Crustacea [1]	> 69.3 mg/l (48 h) Daphnia magna
EC50 - Crustacea [2]	11 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, Daphnia pulex, Static system, Experimental value)
EC50 72h - Algae [1]	0.016 mg/l Scenedesmus subspicatus
ErC50 algae	0.102 mg/l (72 h, Scenedesmus subspicatus, Literature study)
ErC50 other aquatic plants	0.028 mg/l Pseudokirchneriella subcapitata
BCF - Fish [1]	34 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Lepomis macrochirus, Fresh water, Experimental value)
BCF - Other aquatic organisms [1]	28 (Calculated value)
Partition coefficient n-octanol/water (Log Pow)	3.21 (Experimental value)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2 – 2.4 (log Koc, Calculated value)
Additional ecotoxicological information	Acute oral LD50 for mallard ducks and Japanese quail >2000 mg/kg. Dietary LC50 (8d) for mallard ducks and Japanese quail > 5620 mg/kg diet. Bees (LD50, µg/bee) >32 (contact); >22.6 (oral). Worms: LC50 (14d) for earthworms >1000 mg/kg soil.
Dodecylbenzene sulphononic acid, Ca salt (1335202-81-7)	
LC50 - Fish [1]	1.67 mg/l Test organisms (species): Lepomis macrochirus
EC50 - Crustacea [1]	2.9 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	1.18 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	0.23 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri) Duration: '72 d'

Sodium Dioctyl Sulphosuccinate sodium salt (577-11-7)	
LC50 - Fish [1]	49 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)
Polyethylene glycol (25322-68-3)	
LC50 - Fish [1]	> 100 mg/l Test organisms (species): Poecilia reticulata
EC50 - Crustacea [1]	> 100 mg/l Test organisms (species): Daphnia magna
NOEC (chronic)	17475.27 mg/l Test organisms (species): Daphnia magna Duration: '21 d'
NOEC chronic fish	13671.59 mg/l Test organisms (species): other: Duration: '28 d'
poly(dimethylsiloxane) (9016-00-6)	
LC50 - Fish [1]	> 10000 mg/l (96 h, Salmo gairdneri, Static system, Literature study)
BCF - Fish [1]	2.9 – 1250 (3 day(s), Hypophthalmichthys molitrix, Literature study)
Xanthan gum (11138-66-2)	
LC50 - Fish [1]	420 mg/l Source: ECOTOX
1,2-Benzisothiazolin-3-one (2634-33-5)	
LC50 - Fish [1]	2.18 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Experimental value, Nominal concentration)
EC50 - Crustacea [1]	2.94 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Experimental value, Lethal)
ErC50 algae	150 µg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Experimental value, GLP)
BCF - Fish [1]	6.62 (Equivalent or similar to OECD 305, 56 day(s), Lepomis macrochirus, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-0.9 – 0.99 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.97 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

12.2. Persistence and degradability

Spectrum 538 SE (mesotrione 37,5 g/l + s-metolachlor 375 g/l + terbuthylazine 125 g/l) ([104206-82-2] [87392-12-9] 5915-41-3))	
Persistence and degradability	No additional information available
Mesotrione 97% TC (104206-82-8)	
Persistence and degradability	Not readily biodegradable in water.
Terbuthylazine 97% TC (5915-41-3)	
Persistence and degradability	Not readily biodegradable in the soil. Not readily biodegradable in water.
poly(dimethylsiloxane) (9016-00-6)	
Persistence and degradability	Biodegradable in the soil. Not readily biodegradable in water.
1,2-Benzisothiazolin-3-one (2634-33-5)	
Persistence and degradability	Not readily biodegradable in water.

12.3. Bioaccumulative potential

Spectrum 538 SE (mesotrione 37,5 g/l + s-metolachlor 375 g/l + terbuthylazine 125 g/l) ([104206-82-2] [87392-12-9] 5915-41-3))	
Bioaccumulative potential	No additional information available
Mesotrione 97% TC (104206-82-8)	
Partition coefficient n-octanol/water (Log Kow)	< -1
Bioaccumulative potential	Low potential for bioaccumulation (Log Kow < 4).
S-metolachlor 97% TC (87392-12-9)	
Partition coefficient n-octanol/water (Log Kow)	3.05 pH 7
Terbuthylazine 97% TC (5915-41-3)	
BCF - Fish [1]	34 (OECD 305: Bioconcentration: Flow-Through Fish Test, 28 day(s), Lepomis macrochirus, Fresh water, Experimental value)
BCF - Other aquatic organisms [1]	28 (Calculated value)
Partition coefficient n-octanol/water (Log Pow)	3.21 (Experimental value)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2 – 2.4 (log Koc, Calculated value)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
poly(dimethylsiloxane) (9016-00-6)	
BCF - Fish [1]	2.9 – 1250 (3 day(s), Hypophthalmichthys molitrix, Literature study)
Bioaccumulative potential	No straightforward conclusion can be drawn based upon the available numerical values.
1,2-Benzisothiazolin-3-one (2634-33-5)	
BCF - Fish [1]	6.62 (Equivalent or similar to OECD 305, 56 day(s), Lepomis macrochirus, Experimental value, Fresh weight)
Partition coefficient n-octanol/water (Log Pow)	-0.9 – 0.99 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.97 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Bioaccumulative potential	Low potential for bioaccumulation (BCF < 500).
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

12.4. Mobility in soil

Spectrum 538 SE (mesotrione 37,5 g/l + s-metolachlor 375 g/l + terbuthylazine 125 g/l) ([104206-82-2] [87392-12-9] 5915-41-3))	
Mobility in soil	No additional information available
Mesotrione 97% TC (104206-82-8)	
Surface tension	61.5 mN/m (21 °C, EU Method A.5: Surface tension)
Partition coefficient n-octanol/water (Log Kow)	< -1
Ecology - soil	Highly mobile in soil.
S-metolachlor 97% TC (87392-12-9)	
Partition coefficient n-octanol/water (Log Kow)	3.05 pH 7

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Terbutylazine 97% TC (5915-41-3)	
Surface tension	71.8 mN/m (20 °C, OECD 115: Surface Tension of Aqueous Solutions)
Partition coefficient n-octanol/water (Log Pow)	3.21 (Experimental value)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	2 – 2.4 (log Koc, Calculated value)
Ecology - soil	Highly mobile in soil. Not toxic to bees.
poly(dimethylsiloxane) (9016-00-6)	
Ecology - soil	Adsorbs into the soil. Low potential for mobility in soil. Not toxic to plants.
1,2-Benzisothiazolin-3-one (2634-33-5)	
Surface tension	72.6 mN/m (20 °C, 0.1 %, EU Method A.5: Surface tension)
Partition coefficient n-octanol/water (Log Pow)	-0.9 – 0.99 (Experimental value, EU Method A.8: Partition Coefficient, 20 °C)
Organic Carbon Normalized Adsorption Coefficient (Log Koc)	0.97 (log Koc, OECD 121: Estimation of the Adsorption Coefficient (Koc) on Soil and on Sewage Sludge using High Performance Liquid Chromatography (HPLC), Experimental value, GLP)
Ecology - soil	Highly mobile in soil.
Water (7732-18-5)	
Partition coefficient n-octanol/water (Log Pow)	-1.38

12.5. Other adverse effects

Ozone : Not classified
Other adverse effects : No additional information available

SECTION 13. DISPOSAL CONSIDERATIONS

Waste treatment methods:

Consider suitable waste recycling, re-use or recovery options. Dispose of in accordance with municipal, provincial and national regulations. Waste Classification and Management Regulations (GN 634 of 2013). Dispose and or manage in accordance with the requirements contained in R634 Waste Classification & Management Regulations, R635 National Norms & Standards for the Assessment of Waste for Landfill Disposal and R636 National Norms & Standards for Disposal of Waste to Landfill.

Product/ packaging disposal: Treat as hazardous waste and dispose of in accordance with municipal, provincial and national regulations.

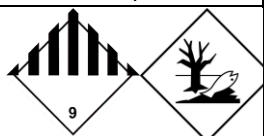
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SECTION 14. TRANSPORT INFORMATION

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO/IATA)
UN-Number	3082	3082	3082
UN Proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains mesotrione 37,5 g/l + s-metolachlor 375 g/l + terbuthylazine 125 g/l)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains mesotrione 37,5 g/l + s-metolachlor 375 g/l + terbuthylazine 125 g/l)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains mesotrione 37,5 g/l + s-metolachlor 375 g/l + terbuthylazine 125 g/l)
Transport hazard class:	9	9	9
Packaging group:	III	III	III
Marine pollutant:	yes	yes	yes
Special precautions for user:	Not required	Not required	Not required
Transport in bulk according to MARPOL 73/78 Annex II and the IBC code			

Inland waterways: Not required.

Emergency response information: No information.

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation for the mixture:

Relevant information regarding authorization: Occupational Health and Safety Act 1993. Regulation for Hazardous Chemical Agents, 2021. UN Recommendations on the Transport of Dangerous Goods Model Regulations Rev. 21 (2019), Globally Harmonized System of Classification and Labelling of Chemicals (GHS) Rev 9, 2021.

Relevant information regarding restrictions:

EU regulations: Regulation EC 1272/2008 [EU-GHS/CLP].

Other National regulations: 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.

Chemical Safety Assessment carried out? No

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SECTION 16. OTHER INFORMATION

Indication of changes: All sections.

Relevant H statements (number and full text):

Full text of H-statements	
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H303	May be harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation.
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H401	Toxic to aquatic life
H402	Harmful to aquatic life
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.

Training instructions: No special training required. Read label of product.

Further information: This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

Notice to readers: Employers should use this information only as a supplement to other information gathered by them and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.