

# Safety Data Sheet (SDS) OutPace SUPER

According to UN GHS 8th Ed  
Revision Date: 13/07/2022

First print date: 01/06/2018  
Version: 1.1

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

### Product identifier:

**Identification as on the label/Trade name:** OutPace Super

**Common name:** Glyphosate isopropylamine salt 167g/L SC + Simazine 175 g/l + Teburthylazine 175 g/l

### 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:

Enviro Bio-Chem (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Details of the Registration Holder:

Enviro Industries (Pty) Ltd, 44 Kerk Street,  
Lichtenburg, North West, South Africa, 2740

### Contact Details:

Telephone: +27 87 231 7261

Fax: 086 541 7948

Website: www.envirobiochem.co.za

### Emergency telephone numbers:

**24 Hour Emergency Number: Bateleur: +27 83 123 3911**

Griffon Poison Information Centre: +27 82 446 8946

Poisons Information Helpline: 0861 555 777

Tygerberg Hospital: +27 21 931 6129

## SECTION 2. HAZARD IDENTIFICATION

### Classification of the substances or mixture

The mixture is classified according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

Hazard classes/Hazard categories	Hazard statement
Carcinogenicity (Category 2)	H351
STOT RE (Category 2)	H373
Aquatic toxicity acute (Category 1)	H400
Aquatic toxicity chronic (Category 1)	H410

For full text of H statements see section 16

### The most important adverse effects

**The most important adverse physicochemical effects:** None known

**The most important adverse human health effects:** May cause damage to organs through prolonged or repeated exposure.

Suspected human carcinogen

### Label elements



**Hazard pictograms**

**Signal Word:** Warning

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**Hazard Statements:**

H351	Suspected of causing cancer
H373	May cause damage to organs through prolonged or repeated exposure
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects

**Precautionary Statements:**

P102	Keep out of reach of children
P103	Read label before use
P202	Do not handle until all safety precautions have been read and understood.
P264	Wash hands, forearms, and face thoroughly after handling
P270	Do not eat, drink, or smoke when using this product.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P403	Store in a well-ventilated place.
P501	Dispose of contents/container in accordance with local/regional/ national/international

**SECTION 3. COMPOSITION / INFORMATION ON INGREDIENTS**

Substance/Mixture: Mixture

**Ingredients:**

Substance name (IUPAC)	CAS Number.	Concentration % by weight	Classification EC1272/2008
Glyphosate isopropylamine salt	38641-94-0	24.1%	Aquatic Chronic (Category 2) H412
Terbutylazine	5915-41-3	15.8%	Acute Toxicity -Oral (Category 4) H302 STOT RE (Category 2) H373 Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410
Simazine	122-34-9	15.6%	Carcinogenicity (Category 2) H351 Aquatic Acute (Category 1) H400 Aquatic Chronic (Category 1) H410
Ethylene glycol	107-21-1	<1%	Acute Toxicity -Oral (Category 4) H302
Formalin 40% (Anti bacteria)	50-00-0	<1%	Acute Toxicity Oral (Category 3 ) H301 Acute Toxicity Dermal (Category 3 ) H311 Acute Toxicity inhalation (Category 3) H331 Skin corrosion (Category 1B) H314 Skin sensitisation (Category 1) H317 STOT SE CNS (Category 3) H336 Carcinogenicity (Category 1B) H350 Germ Cell Mutagenicity (Category 2) H341

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**

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## Description of first aid measures:

**In case of inhalation:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if you feel unwell.

**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. Seek medical attention immediately.

**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 immediately.

**In case of ingestion:** Seek immediate medical advice. Do NOT induce vomiting. Rinse mouth thoroughly with water. The patient should be kept under observation for at least 72 hr. Treat symptomatically. Ingestions of small (less than 10 mg/kg body weight) occurring less than an hour before treatment, is best treated by Syrup of Ipecac followed by 1 or 2 glasses of water. The dose for adults and children over 12 years is 30 mL. The dose for children under 12 years is 15 mL. Do NOT induce vomiting. Rinse mouth. Call the POISON CENTRE or a doctor if you feel unwell. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt, or waistband.

## Most important symptoms and effects, both acute and delayed:

**Anticipated acute effects:** May be harmful if swallowed.

**Anticipated delayed effects:** May cause damage to organs through prolonged or repeated exposure. Suspected of causing cancer.

**Symptoms of exposure to the product :** None known

## Indication of any immediate medical attention and special treatment needed:

### Advice to physician:

Treat symptomatically and supportively. No specific antidote known. If large amounts have been ingested, perform gastric lavage and administer activated charcoal.

**Treatment:** Ingestions of large amounts (more than 10 mg/kg) occurring less than an hour before treatment, should be treated by gastric lavage:

- 1) Intubate stomach and aspirate contents.
- 2) Lavage stomach with slurry or activated charcoal in 0.9% saline. Leave 30-50 mg activated in the stomach before withdrawing tube.
- 3) Sodium sulfate, 0.25 gm/kg in tap water, as a cathartic.

**Caution:** Hydrocarbons (kerosene, petroleum distillates) are included in the formulation. Ingestion of very large amounts may cause CNS depression. In this case, IPECAC is contraindicated. Also, gastric intubation incurs a risk of hydrocarbon pneumonitis.

### Precautions:

- 1) If the victim is unconscious or obtunded and facilities are at hand, insert an endotracheal tube (cuffed, if available) prior to gastric intubation.
- 2) Keep victim's head below level of stomach during intubation and lavage (Trendelenburg, or left lateral decubitus, with head of table tipped downward). Keep victim's head turned to the left.
- 3) Aspirate pharynx as regularly as possible to remove gagged or vomited stomach contents.

Ingestions occurring more than an hour before treatment are probably best treated only by activated charcoal, 30-50 gm, and sodium or magnesium sulfate, 0.25 gm/kg, as directed above.

## SECTION 5. FIRE FIGHTING MEASURES

### Extinguisher media:

**Suitable** extinguisher media: Foam. Dry powder. Carbon dioxide. Water spray.

**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.

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### Special hazards arising from the mixture:

Fire Hazard: The material does not burn or burns with difficulty. It is not explosive. Airborne Bromacil dust may ignite.  
Hazardous decomposition products in case of fire: Refer to Section 10: Stability and Reactivity.

### Advice for fire-fighters:

Avoid inhaling hazardous dust vapours. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent.  
Contain fire control agents for later disposal according to Section 13.  
Water can be used to cool unaffected containers.

## SECTION 6. ACCIDENTAL RELEASE

### Personal precautions, protective equipment, and emergency procedures:

**For non-emergency personnel:** Keep all personnel away .Avoid contact with eyes and skin.

**For emergency responders:** Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear. Use an approved/certified respirator or equivalent Avoid contact with eyes and skin. Do not breathe in fumes. Refer to section 8 for recommended personal protective equipment. Evacuate unnecessary personnel.

### Environmental precautions:

Stop leak if without risk. Prevent entry into drains, watercourses, or confined areas; dike if needed. If the product contaminates public water, inform appropriate authorities immediately in accordance with local regulations.

Dispose in a safe manner in accordance with local/national regulations.

### Methods for containment and cleaning up:

**For small spills:** Clean up promptly. Do not use water to collect spilled product. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth. Do not flush spilled product into drains. If spill area is on ground near trees or other valuable plants, remove top 5 cm of soil after initial clean-up. Wear PPE. Collect in suitable and properly labelled containers.

**For large spills :** Isolate area and keep unauthorized personnel away. Contain spilled material if possible. Clean up promptly. Do not use water to collect spilled product. Absorb with materials such as: sand, earth, vermiculite, or diatomaceous earth. Do not flush spilled product into drains. If spill area is on ground near trees or other valuable plants, remove top 5 cm of soil after initial clean-up. Wear PPE. Collect in suitable and properly labelled containers.

### Reference to other sections:

See section 1 for emergency contact details

See section 7 for information on safe handling.

See section 8 for information on personal protection equipment.

See section 13 for information on disposal.

## SECTION 7. HANDLING AND STORAGE

### Precautions for safe handling:

Avoid contact with skin, eyes, and clothing. Keep away from heat and open flames. Use with adequate ventilation. Provide appropriate exhaust ventilation at places where dust is formed.

Workers should wash hands and face before eating, drinking, and smoking. Remove contaminated clothing and protective equipment before entering eating areas.

**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 in original containers. Store product in a segregated and approved area. Keep container in a cool, well-ventilated

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area at temperatures not exceeding 40°C Keep container tightly closed and sealed until ready for use. Keep under lock and key out of reach of unauthorized persons, children, and animals. Store away from incompatible substances. Provide adequate exhaust ventilation in areas where dust may form. Do not leave in applicators for extended periods.

## Specific end uses:

Use as directed. Use original container.

## SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION

### Control parameters:

Acceptable Daily Intake (ADI): 0.3 mg/kg human body weight (Glyphosate); 0.005 mg/kg body weight daily (Simazine); 0.0035 mg/kg body weight daily (Terbuthylazine).  
Occupational Exposure Limits: No data available

### 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:** Ensure adequate ventilation. Provide exhaust ventilation or other engineering controls. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations. 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.

**Eye/face protection:** Use splash proof safety glasses .

**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, apron, rubber boots.

**Respiratory protection:** Avoid inhaling dust. For most well-ventilated conditions, no respiratory protection should be needed. If used in a poorly ventilated area (airborne concentrations exceed exposure limits), use a dust mask or NIOSH approved air-purifying respirator. Limitations of respirator specified by the approving agency and the manufacturer must be observed.

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

## SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

### Information on basic physical and chemical properties

Appearance	Thick suspension concentrate
Colour	White
Odour	Slightly esotery.
Odour threshold	No data available
pH	5.2-5.6
Melting point / freezing point (°C)	No applicable
Boiling point (°C) (Bromacil)	No data available
Flash point (°C)	Final product > 100 °C and Terbuthylazine > 150 °C.
Evaporation rate	No data available
Flammability	Non flammable

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Upper /lower flammability limits	No data available
Vapour pressure	No data available
Vapour density	No data available
Relative density (20 ± 1° C)	1.160 ± 0.006 g/ml
Water solubility (g/l) at 25°C	12 g/ℓ (Glyphosate) at 25 °C. 5 mg/ℓ (Simazine) and 8.5 mg/ℓ
Solvent solubility (Glyphosate)	Insoluble in common organic solvents, e.g. acetone, ethanol and xylene.
Solvent solubility (Simazine)	900 mg/ℓ chloroform; 300 mg/ℓ diethyl ether; 2 mg/ℓ light petroleum; 400 mg/ℓ methanol.
Solvent solubility (Terbutylazine)	100 g/ℓ dimethylformamide; 40 g/ℓ ethyl acetate; 14.3 g/ℓ octan-1-ol.
Partition coefficient : n-octanol/water	No data available
Auto-ignition temperature (° C)	No data available
Decomposition temperature (° C)	No data available
Viscosity, dynamic (mPa s)	No data available
Explosive properties	Not explosive.
Oxidising properties	No data available
Explosive limits	No data available

**SECTION 10. STABILITY AND REACTIVITY**
**Reactivity:**

None known

**Chemical stability:**

Stable under normal storage conditions for 2 years. Avoid excessive heat sources.

**Possibility of hazardous reactions:**

No information available.

**Conditions to avoid:**

Avoid sources of heat, free flames or spark generating equipment. Glyphosate is stable up to 60 °C.

**Incompatible materials:**

Do not mix with other herbicides or pesticide except for products mentioned on the product label. Do not mix concentrate directly with other herbicides or pesticide concentrates; always dilute first.

**Hazardous decomposition products:**

Thermal decomposition of the product may include toxic and corrosive fumes of chlorides and toxic oxides of carbon and nitrogen.

**Other decomposition products:** - No data available.

**SECTION 11. TOXICOLOGICAL INFORMATION**
**Toxicokinetics, metabolism and distribution:** No data available

**Information on toxicological effects:**
**Assessment of acute toxicity:**

The product has not been tested. The data reported is for the main ingredients in the mixture.

<b>Terbutylazine CAS No. 5915-41-3</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat)	1590-2000 mg/kg
Acute Dermal LD50 (rabbit):	>2000 mg/kg
Acute Inhalation LC50 - 4 h (rat)	>5.3 mg/l
Skin irritation/ corrosion	Not a skin irritant

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Eye damage / irritation	Not an eye irritant
Respiratory or skin sensitization	Not a skin sensitizer
Germ cell mutagenicity	No data available
Carcinogenicity	No data available
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	No data available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

<b>Simazine CAS No. 122-34-9</b>	
<b>Acute toxicity:</b>	
Acute Oral LD50 (rat)	500-1000 mg/kg
Acute Dermal LD50 (rat): (rat male and female)	> 2000 mg/kg
Acute Inhalation LC50 - 4 h (rat male and female)	>5.5 mg/l air
Skin irritation/ corrosion (rabbits)	Not a skin irritant
Eye damage / irritation (rabbits)	Not an eye irritant
Respiratory or skin sensitization (guinea pig)	Not a skin sensitizer
Germ cell mutagenicity	No data available
Carcinogenicity	Suspected of causing cancer
Reproductive toxicity	No data available
Specific Target Organ Toxicity STOT single exposure	No data available
Specific Target Organ Toxicity STOT repeated exposure	May cause damage to organs through prolonged or repeated exposure
Aspiration hazard	Not classified

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

### SECTION 12. ECOLOGICAL INFORMATION

<b>Terbutylazine CAS No. 5915-41-3</b>	
<b>Toxicity</b>	
Birds Acute oral LD50 Dietary LC50 8 days	>1000 mg/kg Bobwhite quail and Mallard ducks >5620 mg/kg diet Bobwhite quail and Mallard ducks
Aquatic Toxicity Fish LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia EC <sub>50</sub> (48 hr) Toxicity to algae – static test E-C50 (96h) Toxicity to bees LD <sub>50</sub> (oral and contact) Toxicity to worms LC50 (14d)	2.2 mg/l Rainbow trout ; 52 mg/l, Bluegill sunfish >69.3 mg/l 0.016 mg/l for green algae ( <i>Scenedesmus subspicatus</i> ) >193 µg/bee. >283-1000 mg/kg soil (earthworms)

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<b>Persistence and degradability</b>	In aerobic soils, dissipation is mainly due to microbial activity with the formation of metabolites by de-ethylation and hydroxylation, with eventual ring cleavage, and the formation of non-extractable residues (8-27% after 98d). Median DT50 (field) 17.4 (6.5-149, 9 sites). Adsorption on soils is medium K <sub>oc</sub> 224 (162-333, 12 soils), median K <sub>f</sub> 3.0 (0.3-25.2, 12 soils) Terbutylazine is only slightly mobile. In water sediment systems, terbutylazine dissipates with a DT50 of 33-73 d in the whole system.
<b>Bioaccumulation potential</b>	No data available
<b>Mobility in Soil</b>	No data available
<b>Result of PBT and vPvB assessment</b>	No data available
<b>Other adverse effects</b>	No data available

<b>Simazine CAS No. 122-34-9</b>	
<b>Toxicity</b>	
Birds Acute oral LD <sub>50</sub> Dietary LC <sub>50</sub> (8 day)	>2000 mg/kg Mallard Ducks and Japanese quail 10 000 mg/kg Mallard Duck; > 5000 mg/kg Japanese quail
Aquatic Toxicity Fish static test LC <sub>50</sub> (96 hr) Aquatic Toxicity Daphnia static test EC <sub>50</sub> (48 hr) Algae Toxicity static test EC <sub>50</sub> (72h) Bee Toxicity LD <sub>50</sub>	90 mg/l Bluegill sunfish; > 100mg/l Rainbow Trout > 100 mg/l Daphnia magna (Water flea) 0.042 mg/l <i>Scenedesmus subspicatus</i> (green algae) >99 µg/bee (oral and contact)
<b>Persistence and degradability</b>	Microbial breakdown in soil results in degradation of simazine at very variable rates; DT50 is 27 to 102 days (median 49 days); temperature and soil moisture are the main factors affecting rates. K <sub>oc</sub> 103 to 277 (median 160); K <sub>d</sub> 0.37 to 4.66 (12 soils). Is moderately persistent
<b>Bioaccumulation potential</b>	Low potential for bioaccumulation
<b>Mobility in soil</b>	Low mobility in soil

**SECTION 13. DISPOSAL CONSIDERATIONS**
**Waste treatment methods:**
**Product:**

Keep out of drains, sewers, ditches, and waterways. Refer to container label for disposal information. Treat as hazardous waste and dispose of in accordance with local/ regional/ national/ international regulations.

**Container:**

Refer to container label for disposal information. Triple or pressure rinse empty containers. Pour rinse water into spray tank. Dispose of as hazardous waste. Do not contaminate water when disposing of rinse water. Dispose of using an approved waste disposal service provider. Follow all local/ regional/ national/ international regulations.

**SECTION 14. TRANSPORT INFORMATION**

UN Number	3082
UN proper shipping name	Environmentally Hazardous, Liquid, N.O.S. (Simazine 175g/l, Terbutylazine 175 g/l & Glyphosate 167 g/l).
Transport hazard class	9
Packaging group	III
Marine pollutant	Yes



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## 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 8, 2019.

### 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.

Act 36 of 1947 of the Republic of South Africa. This product is registered under it is a violation of South African law to use this product in any manner inconsistent with its approved labelling. Read and follow all label directions

**Chemical Safety Assessment carried out?** No

## SECTION 16. OTHER INFORMATION

### Indication of changes:

Classification according to SANS 10234:2019, Regulation EC 1272/2008 [EU-GHS/CLP]

GHS aligned – all sections

### Relevant H statements (number and full text):

H301-Toxic if swallowed

H302-Harmful if swallowed

H311-Toxic in contact with skin

H314-Causes severe skin burns and eye damage

H317-May cause an allergic skin reaction

H331-Toxic if inhaled

H341-Suspected of causing genetic defects

H350-May cause cancer

H411-Toxic to aquatic life with long lasting effects

STOT RE (Category 2) – Specific Target Organ Toxicity (Category 2): Causes damage to organs through prolonged and repeated exposure

### Training instructions:

Use as indicated on the label, special training may be required for application.

### 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.

The information on this sheet is not a specification; it does not guarantee specific properties. The information is intended to provide general guidance as to health and safety based upon our knowledge of the handling, storage, and use of the product. It is not applicable to unusual or non-standard uses of the product, nor where instructions or recommendations are not followed.