



Safety Data Sheet

V8 - Reg. No: L 10379 (Act No 36 of 1947)

Date of issue: 28/11/2017

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1) IDENTIFICATION OF THE SUBSTANCE OR MIXTURE AND OF THE SUPPLIER.	
Product name:	V8
Other means of identification:	Tri-allate 480 g/L EC
UN number:	3082
Recommended use:	Herbicide
Restrictions on use:	Agriculture
Distributed by:	MERIDIAN AGRITECH P O BOX 436 MODDERFONTEIN TEL 011 8228509 FAX 0866901386 MOBILE: 0834006056 www.agritech.co.za
Emergency Number:	POISON CENTRE (UNITAS HOSPITAL) 012 664 1100 WESTERN CAPE POISONS TELEPHONE SERVICE 0861 555 777 RAPID SPILL RESPONSE 0800 775 3305 GRIFFON POISON CENTRE: 082 446 8946
Chemical Name:	Tri-allate
2) Classification of the substance / mixture:	
Classification of the product:	According to Directive 67/548/EEC or 1999/45/EC N; Xi R50/53 S60 S61 Full text of R and S-phrases: see section 15.
Label elements:	Hazard symbols:   Xi – Irritant N – Dangerous for the environment Full text of symbols: see section 15.
Health effects: eyes:	Causes irritation
Health effects: skin:	Causes irritation
Health effects: ingestion	Harmful if swallowed
Health effects: inhalation	Harmful if inhaled

Health effects: Other	No data available
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3) COMPOSITION / INFORMATION ON INGREDIENTS:

Mixture:

Chemical name	% composition	CAS No.	EC No.	Classification according to Regulation EC 1272/2008 (CLP)	Classification according to Directive 199/45/EC
Tri-allate	48	2303-17-5	218-962-7	Acute Tox. 4 * STOT RE 2 * Skin Sens. 1 Aquatic Acute 1 Aquatic Chronic 1	H302 H373 ** H317 H400 H410
Solvent naphtha (petroleum), heavy aromatic	48-50	63148-62-9	265-200-4	Asp. Tox. 1: H304 Skin Irrit. 2: H315 STS SE 3: H336 Aquatic chronic 2: H411 Flam. Liq. 3: H226	
Ethoxylated polyarylphenol	<5.0	99734-09-5	-	Aquatic Chronic 3: H412 Aquatic Chronic 2: H411	-
Calcium dodecylbenzenesulphocate	3.0 – 5.0	26264-06-2	247-557-8	Skin Irrit. 2: H315: Eye Dam. 1: H318 Aquatic Chronic 4: H413 Acute Tox. 4: H302 Acute Tox. 4: H312 Acute Tox. 4: H332 Aquatic chronic 3: H412 Eye Irrit. 2: H 319	-

Full text of R- and S-phrases: see section 15.

4) First Aid Measures:

Eye contact:

F In case of eye contact, immediately flush the eyes with clean, gently flowing lukewarm water for at least 20 minutes, while holding the eyelid(s) open. **Seek medical attention immediately.**

Skin contact:

Remove all contaminated clothing, shoes and leather goods immediately. Gently wipe off any excess chemical. Wash skin thoroughly and gently with water and soap. Do not rub the skin. Seek medical advice if needed.

Ingestion:

Have the victim rinse their mouth out with water if the patient is alert and able. If the patient is alert and respiration is not depressed, administer large quantities of water. Never give anything by mouth to an unconscious person. Treat respiratory difficulty using artificial respiration and oxygen. Treat symptomatically and supportively. **Do not induce vomiting.** For advice, contact the National Poisons Centre. **Seek medical assistance immediately.** Contains petroleum distillates and/or aromatic solvents.

Inhalation:

Remove patient to fresh air. Loosen clothing around neck. Lie down and keep warm and at rest. If breathing is shallow or has stopped ensure airway is clear and apply resuscitation. Maintain the airway and administer oxygen if required. Treat symptomatically and supportively. **Seek medical assistance immediately.**

Most important symptoms and effects, acute and delayed:

None known

Indication of immediate medical attention and special treatment needed: Advice to physician

No specific antidote known. Treat symptomatically and supportively. Do not induce vomiting: contains petroleum distillates and/or aromatic solvents. In case of ingestion of large amounts, gastric lavage may be indicated.

5) Fire-Fighting Measures:

<p>Suitable extinguishing media:</p> <p>Unsuitable extinguishing media:</p> <p>Special hazards arising from the substance or mixture:</p>	<p>Small fires: Water fog or fine spray, alcohol-resistant foam, carbon dioxide or dry chemical. Large fires: Alcohol-resistant foam.</p> <p>Do not use high volume water jet, due to contamination risk.</p> <p>Generating poisonous and corrosive fumes containing: carbon monoxide, nitrogen oxides and sulfur.</p>
<p>Fire-fighting:</p> <p>Protective clothing:</p>	<p>Remove spectators from surrounding area. Isolate the fire area and evacuate downwind. Use a recommended extinguishing agent for the type of surrounding fire. Fight fire from maximum distance and use unmanned hose holder or monitor nozzles. Contain fire control agents for later disposal. Avoid inhaling hazardous vapours and fumes from burning materials. Keep upwind. Remove container from fire area if possible and without risk. Water can be used to cool unaffected containers but must be contained for later disposal. Do not scatter the material. Avoid pollution of waterways.</p> <p>Full protective clothing and self-contained breathing apparatus</p>
<p>6) Accidental Release Measures:</p>	
<p>Personal precautions:</p> <p>Environmental precautions:</p> <p>Cleaning procedure:</p> <p>Disposal:</p>	<p>Wear the appropriate safety clothing and eye / face protection. For personal protection see Section 8. Keep people away from, and upwind of, the spill or leak.</p> <p>Do not contaminate waterways, drains and groundwater. If contamination of waterways, drains, rivers or lakes is unavoidable, warn the local authorities (Police and Department of Water/Environmental affairs) immediately.</p> <p>Wear protective clothing. Clear area of unprotected personnel. Contain and absorb liquid spills with liquid binding material or inert material. Dike, for large spills, to prevent contamination of local water sources. Wash area with water and detergent and absorb with further inert material. If spill does enter waterways contact the local authority. Spilled product cannot be re-used and must be disposed of by incineration or disposal in a chemical waste disposal facility. If containers cannot be recycled, they should be disposed of together with the waste chemical.</p> <p>Waste Disposal:</p> <p>Do not contaminate ponds, waterways or ditches with any chemical or used container. Do not dispose of waste into the sewer. Where possible, recycling is preferable to disposal or incineration. If recycling is not practicable, dispose of in accordance with local and national regulations Do not contaminate water, food or feed by disposal.</p> <p>Container Disposal: Refer to the product label for instructions.</p> <p>Emptied containers retain vapour and product residues, therefore observe all labelled safeguards until the container is destroyed. Combustible containers should be disposed of in pesticide incinerators. Non-combustible containers must first be triple-rinsed with water, then punctured and transported to a scrap metal facility for recycling or disposal. If the container is to be refilled, do not rinse with any material or introduce any pesticide other than this product. DO NO REUSE THE CONTAINER FOR ANY OTHER PURPOSE. Do not transport if this container is damaged or leaking.</p>
<p>7) Handling & Storage:</p>	

<p>Handling:</p> <p>Storage:</p>	<p>Use good personal hygiene. Avoid contact with skin and eyes. Wash hands before breaks and immediately after handling the product. When using, do not eat, drink or smoke. Wash contaminated clothing before re-use. APPROVED HANDLER: This product must be under the control of an approved handler when applied in a wide dispersive manner; or used by a commercial contractor.</p> <p>Store in the original container tightly closed and in a locked, dry, cool, well-ventilated area away from foodstuffs, fertilisers, seeds, drink, pharmaceuticals or cosmetics. Store in compliance with local regulations. Protect from excessive heat and cold. Keep away from children or uninformed persons. Keep away from combustible material. No smoking. Keep away from sources of ignition.</p>
<p>8) Exposure Control / Personal Protection:</p>	
<p>It is essential to provide adequate ventilation. The measures appropriate for a particular work site depend on how this material is used and on the extent of exposure. Ensure that control systems are properly designed and maintained. Comply with occupational safety, environmental, fire, and other applicable regulations.</p> <p><u>PERSONAL PROTECTIVE EQUIPMENT:</u></p> <p>Clothing:</p> <p>Gloves:</p> <p>Eye protection:</p> <p>Respiratory protection:</p> <p>Emergency eye wash:</p>	<p>Consult supplier to confirm that the equipment is suitable.</p> <p>Select chemically-resistant clothing based on the potential for contact and the permeation / penetration characteristics of the clothing material. Wash with soap and water after removing protective clothing. Decontaminate clothing before re-use, or use disposable equipment (suits, aprons, sleeves, boots etc.). As appropriate: Impervious protective suit.</p> <p>Chemically resistant gloves. Gloves should be certified to an appropriate standard. Gloves should have a minimum break-through time that is appropriate to the duration of exposure. The breakthrough time of gloves varies according to the thickness, material and manufacturer. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Suitable material: Nitrile rubber.</p> <p>Not usually required. Follow any site-specific eye protection policies.</p> <p>A particulate filter respirator may be needed until effective technical measures are installed. The protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in the case of an emergency spill, when the exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.</p> <p>Where there is any possibility that an employee's eyes may be exposed to this substance, the employer should provide an eye wash fountain or appropriate alternative within the immediate work area for emergency use.</p>
<p>9) Physical & Chemical Properties:</p>	
<p>Form:</p> <p>Colour:</p> <p>Odour:</p> <p>Odour threshold:</p>	<p>Liquid</p> <p>Clear to brown</p> <p>Characteristic</p> <p>No data available</p>

<p>pH:</p> <p>Melting point / Freezing point</p> <p>Initial boiling point and boiling range</p> <p>Flash point:</p> <p>Evaporation rate:</p> <p>Flammability (solid, gas)</p> <p>Upper/ lower flammability or explosive limits:</p> <p>Vapour pressure:</p> <p>Vapour density:</p> <p>Relative density:</p> <p>Solubility(ies)</p> <p>Partition coefficient: n-octanol/water</p> <p>Auto-ignition temperature:</p> <p>Viscosity:</p>	<p>6 – 8.5</p> <p>No data available</p> <p>No data available</p> <p>69.5° C</p> <p>No data available</p> <p>Not flammable</p> <p>No hazard is expected as long as the product is used appropriately and in accordance with the intended use.</p> <p>No data available</p> <p>Approximately 1.02 g/L</p> <p>No data available</p> <p>Emulsifiable in water</p> <p>No data available</p> <p>No data available</p> <p>No data available</p>
10) Stability & Reactivity:	
<p>Reactivity:</p> <p>Chemical stability:</p> <p>Hazardous decomposition product(s):</p> <p>Conditions to avoid:</p> <p>Incompatible materials:</p>	<p>No hazardous reactions known. Hazardous polymerisation does not occur. Combustion or thermal decomposition will evolve toxic and irritating vapours.</p> <p>When stored appropriately this product should show no significant degradation for 2 years from the date of manufacture. Avoid strong basic, acidic or oxidising materials</p> <p>None under normal conditions of storage and of use. When heated to decomposition, irritant or dangerous fumes may be emitted.</p> <p>No data available</p> <p>No data available</p>
11) Toxicological Information:	
<p>Acute:</p> <p>Oral LD50 1 100 mg/kg, rat.</p> <p>Dermal LD50 8 200mg/kg, rat.</p> <p>Inhalation LC50 (4h): > 5.3 mg . L, 12h</p> <p>Skin irritation : Slight irritant, rabbit.</p> <p>Eye irritation : Slight irritant, rabbit.</p> <p>Sensitisation : Guinea pig: Not a sensitiser</p> <p>Mutagenicity: The statement has been derived from the properties of the active ingredient. Tests revealed no genotoxic potential.</p> <p>Carcinogenicity: The statement has been derived from the properties of the active. Tests revealed no indication of a carcinogenic effect.</p> <p>Reproductive toxicity: The statement has been derived from the properties of the active. Tests revealed no indication of a fertility impairing effect.</p> <p>Teratogenicity: The statement has been derived from the properties of the active. Tests revealed no indication of developmental toxic effects at dosage rates that were not toxic to the parent animals.</p> <p>Repeated dose toxicity: The statement has been derived from the properties of the active. Tests revealed no substance-specific organ toxicity after repeated administration to animals.</p>	
12) Ecological Information:	

Information below based on active ingredient:

Bees: LD₅₀ Non-toxic to bees.

Birds: Acute oral LD₅₀ for bobwhite quail >2251 mg/kg. Dietary LC₅₀ (8 d) for mallard ducks and bobwhite quail >5620 mg/kg diet.

Fish : LC₅₀ (96 h) for rainbow trout 1.2, bluegill sunfish 1.3 mg/l.

Algae : EC₅₀ (96 h) for *Selenastrum capricornutum* 0.12 mg/l

Worms: No data available.

Soil micro-organisms: No adverse effect on soil microflora.

Other aquatic species: Daphnia : LC₅₀ (48 h) 0.43 mg/l.

Persistence and degradability:

Main loss from soil is by microbial action (or by volatilisation, if not incorporated in soil). Metabolism proceeds via hydrolytic cleavage with the formation of dialkylamine, CO₂ and mercaptan moieties. The latter is transformed via sulfhydryl group exchange into the corresponding alcohol. DT₅₀ (soil) 8–11 w, (water) 3–15 d. Koc 2400. Bioaccumulation:

Other adverse effects:

Marine pollutant

13) Disposal Considerations:

Waste Disposal: Do not contaminate ponds, waterways or ditches with any chemical or used container. Do not dispose of waste into the sewer. Where possible, recycling is preferable to disposal or incineration. If recycling is not practicable, dispose of in accordance with local and national regulations Do not contaminate water, food or feed by disposal.

Container Disposal: Refer to the product label for instructions.

Invert the empty container over the spraying or mixing tank and allow it to drain for at least thirty seconds after the flow has slowed down to a drip. Thereafter, rinse the container three times with a volume of water equal to at least 30% of the volume of the container. Add the rinsings to the contents of the spray tank before destroying the container in the prescribed manner

14) Transportation Information:

UN NUMBER: 3082

Road Transport ADR/ RID:

Class: 9

Packaging group: III

Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tri-allate and aromatic hydrocarbons)

Environmental hazards: Environmentally hazardous

Special precautions for user: None known.

Maritime Transport IMDG / IMO:

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Labelling no: 9

Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tri-allate and aromatic hydrocarbons)

Air (ICAO / IATA):

Class: 9 Miscellaneous Dangerous Goods

Packaging group: III

Labelling no: 9

Proper shipping name: Environmentally Hazardous Substance, Liquid, N.O.S. (Tri-allate and aromatic hydrocarbons)

MARINE POLLUTANT

Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC code): Not applicable

15) Regulatory Information:

Labelling according to EC directives:

Hazardous components which must be listed on the label: Tri-allate, Aromatic

Symbols: Xi : Irritant

N : Dangerous for the environment.

Risk – Phrase:

R 22 - Harmful if swallowed

R 36/38 - Irritating to eyes and skin

R43 - May cause sensitisation by skin contact.

R50/53 - Very toxic to aquatic organisms, may cause long – term adverse effects in the aquatic environment.

Safety – Phrase:

S2 - Keep out of reach of children.

S13 - Keep away from food, drink and animal feeding stuffs.

S20/21 - When using, do not eat drink or smoke.

S35 - This material and its container must be disposed of in a safe way.

S36/37 - Wear suitable protective clothing and gloves.

S57 - Use appropriate containment to avoid environmental contamination.

S60 - This material and its container must be disposed of as hazardous waste.

S61 - Avoid release to the environment. Refer to special instructions/ Safety data sheets.

Note: The mixture is classified as dangerous according to directive 1999/45/EC

Hazard Statements

H226 - Flammable liquid and vapour

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways

H312 - Harmful in contact with skin

H315 - Causes skin irritation

H317 - May cause an allergic skin reaction

H318 - Causes serious eye damage

H319 - Causes serious eye irritation

H332 - Harmful if inhaled

H336 - May cause drowsiness or dizziness

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 H411

H412 - Harmful to aquatic life with long-lasting effects

H413 - May cause long-lasting harmful effects to aquatic life

16.Other Information

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS and are presented in good faith and believed to be correct. This information applies to the product as such. In case of new formulations or mixes, it is necessary to ascertain that a new danger will not appear.

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