

SAFETY DATA SHEET

Shavit 25 EC

Revision Date 31-Aug-2020 Version 2 Product No FNG56902-27 Publish Date 31-Aug-2020 9198101

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE **COMPANY/UNDERTAKING**

Product identifier

Shavit 25 EC

Synonyms Triadimenol 250 EC

Pure substance/mixture Mixture

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

Recommended Use Fungicide

Uses advised against No information available

Details of the supplier of the safety data sheet

Supplier Address ADAMA SOUTH AFRICA (PTY) LTD

Ground Floor, Simeka House The Vineyards Office Estate 99 Jip de Jager Drive

Bellville 7530

For further information, please contact

SDS@ADAMA.COM **Email address**

Emergency Telephone

Emergency Telephone + 27 82 446 8946

+ 27 86 155 5777 + 27 21 982 1460

Section 2: HAZARDS IDENTIFICATION

Classification of the substance or mixture

Acute toxicity - Oral Category 4 - (H302) Serious eye damage/eye irritation Category 1 - (H318) Reproductive toxicity Category 1B - (H360) Category 3 - (H335)

Specific target organ toxicity (single

exposure)

Acute aquatic toxicity Category 2 - (H401) Chronic aquatic toxicity Category 2 - (H411)

Label Elements

Hazard pictograms

Page 1/9 ADAMA



Signal word Danger

Hazard Statements H302 - Harmful if swallowed

H318 - Causes serious eye damage H335 - May cause respiratory irritation

H360 - May damage fertility or the unborn child H411 - Toxic to aquatic life with long lasting effects

Precautionary Statements P102 - Keep out of reach of children

P201 - Obtain special instructions before use

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray 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

P501 - Dispose of contents/ container to an approved waste disposal plant

Other Hazards
No information available

Section 3: COMPOSITION/INFORMATION ON INGREDIENTS

<u>Mixture</u>

Chemical Name	Weight-%	CAS No	EC No	GHS Classification	M-Factor
Triadimenol	21 - 25	55219-65-3	259-537-6	Acute Tox. 4 (H302)	
				Repr. 1B (H360)	
				Lact (H362)	
				Aquatic Chronic 2 (H411)	
NI Matheid O mi malida a a	44 45	070.50.4	040,000,4	Older Instit O (LIOAE)	
N-Methyl-2-pyrrolidone	41 - 45	872-50-4	212-828-1	Skin Irrit. 2 (H315)	
				Eye Irrit. 2 (H319)	
				Repr. 1B (H360)	
				STOT SE 3 (H335)	
Rosin	15 - 19	8050-09-7	232-475-7	Skin Sens. 1 (H317)	

Full text of H- and EUH-phrases: see section 16

Section 4: FIRST AID MEASURES

First aid measures

General advice In case of accident or unwellness, seek medical advice immediately (show directions for

use or safety data sheet if possible). First aider: Pay attention to self-protection!.

Inhalation Remove to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call

a physician.

Skin Contact Wash off immediately with soap and plenty of water while removing all contaminated

clothes and shoes. Consult a physician if necessary.

ADAMA Page 2/9

Eye contact Immediately flush with plenty of water. After initial flushing, remove any contact lenses and

continue flushing for at least 15 minutes. Keep eye wide open while rinsing. If symptoms

persist, call a physician.

Ingestion Rinse mouth. Drink plenty of water. If symptoms persist, call a physician.

Self-protection of the first aiderUse personal protective equipment as required.

Most important symptoms and effects, both acute and delayed

Symptoms None known.

Indication of any immediate medical attention and special treatment needed

Section 5: FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media

No information available.

Special hazards arising from the substance or mixture

No specific hazard known.

Advice for firefighters

In the event of fire, wear self-contained breathing apparatus In the event of fire and/or explosion do not breathe fumes.

Section 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions

Use personal protective equipment as required. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas.

For emergency responders

Use personal protection recommended in Section 8.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. Do not flush into surface water or sanitary sewer system.

Methods and material for containment and cleaning up

Methods for cleaning up

Take up mechanically, placing in appropriate containers for disposal.

Reference to other sections

Other Information

See also section 8,13

Section 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling

Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Use personal protective equipment as required. Do not breathe dust/fume/gas/mist/vapors/spray.

General Hygiene Considerations

When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs.

Conditions for safe storage, including any incompatibilities

Storage Conditions

Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep containers tightly closed in a cool, well-ventilated place.

Specific end use(s)

Risk Management Methods (RMM)

The information required is contained in this Material Safety Data Sheet.

Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

National occupational exposure limits

Chemical Name	European Union	United Kingdom	France	Spain	Germany
N-Methyl-2-pyrrolidone 872-50-4		STEL: 75 ppm STEL: 309 mg/m³ TWA: 10 ppm TWA: 40 mg/m³ Skin	TWA: 40 mg/m³ TWA: 10 ppm STEL: 80 mg/m³ STEL: 20 ppm	S* STEL: 20 ppm STEL: 80 mg/m³ TWA: 10 ppm TWA: 40 mg/m³	TWA: 20 ppm TWA: 82 mg/m³ Ceiling / Peak: 40 ppm Ceiling / Peak: 164 mg/m³ Skin
Rosin 8050-09-7		TWA: 0.05 mg/m ³	TWA: 0.1 mg/m ³		
Chemical Name	Italy	Portugal	Netherlands	Finland	Denmark
N-Methyl-2-pyrrolidone 872-50-4			Skin STEL: 80 mg/m³ TWA: 40 mg/m³	TWA: 10 ppm TWA: 40 mg/m³ STEL: 20 ppm STEL: 80 mg/m³ Skin	TWA: 5 ppm TWA: 20 mg/m³ Skin
Chemical Name	Austria	Switzerland	Poland	Norway	Ireland
N-Methyl-2-pyrrolidone 872-50-4	Skin STEL 20 ppm STEL 80 mg/m ³ TWA: 10 ppm TWA: 40 mg/m ³	Skin STEL: 40 ppm STEL: 160 mg/m³ TWA: 20 ppm TWA: 80 mg/m³	STEL: 80 mg/m³ TWA: 40 mg/m³ Skin	TWA: 5 ppm TWA: 20 mg/m³ Skin STEL: 20 ppm STEL: 80 mg/m³	TWA: 25 ppm TWA: 101 mg/m³ Skin
Rosin 8050-09-7					TWA: 0.05 mg/m ³ STEL: 0.15 mg/m ³

Exposure controls

Engineering Controls Ensure adequate ventilation, especially in confined areas.

Personal protective equipment

Eye/face protection Tight sealing safety goggles.

ADAMA Page 4/9

Hand Protection Suitable chemical resistant gloves (EN 374) also with prolonged, direct contact

(recommendation: protection index 6, corresponding > 480 minutes Permeability time (permeation) according to EN 374): e.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5

mm), butyl rubber (0.7 mm).

Body Protection Suitable protective clothing, Gloves made of plastic or rubber.

Respiratory protection Use only with adequate ventilation.

General Hygiene Considerations When using do not eat, drink or smoke. Regular cleaning of equipment, work area and

clothing is recommended. Avoid contact with skin, eyes or clothing. Wash hands thoroughly

after handling. Keep away from food, drink and animal feeding stuffs.

Environmental exposure controls No information available.

Section 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and Chemical Properties

<u>Property</u> <u>Values</u> <u>Method</u> <u>Remarks</u>

Appearance
Physical state : liquid

Color : No information available Odor : No information available

Odor threshold : No data available

pH : 6 - 7 CIPAC MT 75.2

Melting point/freezing point °C : No data available Boiling point/boiling range °C : No data available

Flash point °C : 113 92/69/EEC A.9

Evaporation rate : Not Applicable
Flammability (solid, gas) : Not Applicable
Upper/lower flammability or : No data available

explosive limits

Vapor pressure kPa : No data available
Vapor density : No data available
Relative density : No data available
Solubility(ies) mg/l : No data available

Partition Coefficient : See Section 12 for more

(n-octanol/water) Log Pow information

Autoignition temperature °C : No data available

Decomposition temperature °C : No data available

Kinematic viscosity mm2/s 40 °C : 62 OECD 114 **Explosive properties** : Not an explosive

Oxidizing properties : No data available

Other Information

Bulk density g/ml

Surface tension mN/m : Not Applicable

Section 10: STABILITY AND REACTIVITY

Reactivity

Not available.

Chemical stability

Stable under normal conditions.

Possibility of Hazardous Reactions

None under normal processing.

Conditions to avoid

Heat, flames and sparks.

Incompatible Materials

No information available

Hazardous Decomposition Products

None under normal use conditions.

Section 11: TOXICOLOGY INFORMATION

Information on toxicological effects

Acute toxicity

Values Species Method Remarks
Oral LD50 mg/kg : 1483 Rat

Dermal LD50 mg/kg: >2000RatInhalation LC50 mg/l/4h: >5.3RatSkin corrosion/irritation: Non-irritating to the skinRabbitSerious eye damage/eye irritation: Irritating to eyesRabbitRespiratory/skin sensitization: Not a skin sensitizerGuinea pig

Chronic toxicity

Germ cell mutagenicity

Chemical Name

Triadimenol : Not classified

Carcinogenicity

Chemical Name

Triadimenol : Not Carcinogenic

Reproductive toxicity .

Chemical Name

Triadimenol : May damage fertility or the unborn child

STOT - single exposure

Chemical Name

Triadimenol : No data available

STOT - repeated exposure

Chemical Name

Triadimenol : No data available

Aspiration hazard Chemical Name

Triadimenol : No data available

Section 12: ECOLOGICAL INFORMATION

Toxicity

Aquatic toxicity

Acute toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>
Fish 96-hour LC50 mg/l : 3.47 Rainbow trout

Crustacea 48-hour EC50 mg/l : 3.47 Rainbow trout

Crustacea 48-hour EC50 mg/l : 8.5 Daphnia magna

Algae 72-hour EC50 mg/l : 10

Other plants EC50 mg/l : No data available

Chronic aquatic toxicity <u>Values</u> <u>Species</u> <u>Method</u> <u>Remarks</u>

Fish NOEC mg/l : No data available
Crustacea NOEC mg/l : No data available
Algae NOEC mg/l : No data available
Other plants NOEC mg/l : No data available

Terrestrial Toxicity
Birds Oral LD50 mg/kg

Chemical Name

Triadimenol : >2000 Bobwhite quail

Bees Oral LD50 µg/bee

Chemical Name

Triadimenol : >224.8

Persistence and degradability

Abiotic Degradation <u>Values</u> <u>Method</u> <u>Remarks</u>

Water DT50 days Chemical Name

Triadimenol : 353 221 °C

Soil DT50 days Chemical Name

Triadimenol : 127.6

Biodegradation Chemical Name

Triadimenol : No data available

Bioaccumulative potential

Partition Coefficient Values Method Remarks

(n-octanol/water) Partition Coefficient (n-octanol/water) Log

Pow

Chemical Name

Triadimenol : 3.08 - 3.28 251 °C

Bioconcentration factor (BCF)

Chemical Name

Triadimenol : 21

Mobility in soil

Adsorption/Desorption Values Method Remarks
Chemical Name

Triadimenol : 14 - 702 KOC

. 14 - 702

Results of PBT and vPvB assessment

The components in this formulation do not meet the criteria for classification as PBT or vPvB

Other adverse effects

No information available.

Section 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Waste from residues/unused

products

Disposal should be in accordance with applicable regional, national and local laws and

regulations.

Contaminated packaging Improper disposal or reuse of this container may be dangerous and illegal.

Other Information Waste codes should be assigned by the user based on the application for which the product

was used.

Section 14: TRANSPORTATION INFORMATION

IMDG/IMO

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triadimenol)

Hazard Class 9
Packing Group III
Marine pollutant Yes

Special precautions for user

RID/ADR

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triadimenol)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user

ICAO/IATA

UN/ID No * 3082

Proper shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Triadimenol)

Hazard Class 9
Packing Group III
Environmental hazard Yes

Special precautions for user Transport in bulk according to

Annex II of MARPOL 73/78 and the

IBC Code

Not Applicable



^{*} Note: UN3077 & UN3082 – These products may be transported as non-dangerous goods under the special provisions of IMDG Code 2.10.2.7; ADR SP375 and ICAO/IATA A197 when packed in single or inner packaging of up to 5L for liquids or 5 kg or less for solids.

Section 15: REGULATORY INFORMATION

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

Section 16: OTHER INFORMATION

Full text of H-Statements referred to under sections 2 and 3

H302 - Harmful if swallowed

H412 - Harmful to aquatic life with long lasting effects

H317 - May cause an allergic skin reaction

H315 - Causes skin irritation

H319 - Causes serious eye irritation

H360D - May damage the unborn child

H335 - May cause respiratory irritation

Revision Note

Changes made to the last version are labeled with this sign ***.

List of Acronyms

ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways

CAS Number - Chemical Abstracts Service number EINECS and ELINCS Number

EINECS - European Inventory of Existing Commercial Substances

ELINCS - European List of notified Chemical Substances

IATA - International Air Transport Association

ICAO-TI - Technical Instructions for the Safe Transport of Dangerous Goods by Air

IMDG - International Maritime Dangerous Goods

LC50 - Lethal Concentration to 50 % of a test population

LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose)
OECD - Organization for Economic Co-operation and Development

PBT - Persistent, Bioaccumulative and Toxic substance

RID - Regulations concerning the International Carriage of Dangerous Goods by Rail

STOT - Specific Target Organ Toxicity

vPvB - Very Persistent and Very Bioaccumulative

Disclaimer

The information provided in this Material 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 a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or 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.

End of Safety Data Sheet