Material Safety Data Sheet



Publication Date: 11/2020

Triton Tritec 60 Plus Dual Purpose FI Concentrate

Description

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

1.1. Product Identifier

Trade Name: Tritec 60 Plus Dual Purpose F/I Concentrate

Product Form: Mixture

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

1.2.1: Relevant identified uses Intended for general public 1.2.2: Uses advised againts No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier: Triton Systems

> Units 3 - 5 Crayford Commercial Centre Greyhound Way, Crayford, Kent DA1 4HF

+44 (0) 1322 318 830 Tel: +44 (0) 1322 524 017 Email: info@tritonsystems.co.uk www.tritonsystems.co.uk

1.4. Emergency telephone number

Emergency number: Tel: +44 (0) 1322 318830 (0900 - 1700 UK time)

Section 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Acute toxicity (oral), Category 4 H302 Acute toxicity (inhalation: dust, mist), Category 4 H332 Skin corrosion/irritation, Category 2 H315 Serious corrosion/irritation, Category 1 H318 Skin sensitisation, Category 1 H317 Specific target organ toxicity -Repeated Exposure, Category 2 H373 Hazardous to the aquatic environment -H400

Acute Hazard, Category 1

Hazardous to the aquatic environment -Chronic Hazard, Category 1 H410

Full text of hazard ckasses and H-statements: See section 16

Adverse physicochemical, human health and environmental effects:

May cause damage to organs through prolonged or repeated exposure. Harmful if inhaled. Harmful if swallowed. Causes skin irritate. May cause an allergic skin reaction. Causes serious eye damage. Very toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP):









Signal word (CLP):

Danger

Hazardous ingredients:

Permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-

dimethycyclopropanecarboxylate; 3-lod-2-propinylbutyl-carbamat; Propiconazole

(ISO), (\pm) -1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole; SODIUM C10-13 ALKYL BENZENESULFONATE

III 1,2,4 thazoic, ooblow olo 15 Alitte benzent

Hazard statements (CLP):

H302+H332 – Harmful if swallowed or if inhaled.

H315 - Causes skin irritation.

H317 – May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H373 - May cause damage to organs through prolonged or repeated exposure.

H410 – Very toxic to aquatic life with long lasting effects.

Precautionary statements:

P102 - Keep out of reach of children.

P260 – Do not breath fume, mist, spray, vapours.

P280 – Wear eye protection, protective clothing, protective gloves.

P301+P312 - IF SWALLOWED: Call a POISON CENTRE or doctor if you

feel unwell.

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+P351+P338 – IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 – Immediately call a POISON CENTRE or doctor.

P501 – Dispose of contents to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Security closing plug for children:

Tactile warning:

Not applicable.

Applicable.

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 Regulation (EC) No. 1272/2008 [CLP]
Propiconazole (ISO), (\pm) -1-[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H,2,4-triazole	(CAS-No.) 60207-90-1 (EC-No.) 262-104-4 (EC Index-No.) 613-205-00-0	10 – 20	Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-Dimethylcyclopropanecarboxylate	(CAS-No.) 52645-53-1 (EC-No.) 258-067-9 (EC Index-No.) 613-058-00-2	10 - 20	Acute Tox. 4 (Inhalation), H332 Acute Tox. 4 (Oral), H302 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=1000) Aquatic Chronic 1, H410 (M=1000)
SODIUM C10-13 ALKYL BENZENESULFONATE	(CAS-No.) 112-34-5 (EC-No.) 203-961-6 (EC Index-No.) 603-096-00-8 (REACH-no.) 01-2119475104-44	10 – 20	Eye Irrit.2, H319
2-(2-BUTOXYETHOXY)ETHANOL	(CAS-No.) 52645-53-1 (EC-No.) 258-067-9 (EC Index-No.) 613-058-00-2	1 - 10	Acute Tox. 4 (Oral), H302
3-lod-2-propinylbutyl-carbamate	(CAS-No.) 55406-53-6 (EC-No.) 259-627-5 (EC Index-No.) 616-212-00-7	1 – 10	Acute Tox. 4 (Inhalation), H331 Acute Tox. 4 (Oral), H302 STOT RE 1, H372 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410

Full text of H-statements: See section 16.

Section 4: First aid measures

4.1. Description of first aid measures

First aid measures general: Call a poison centre or a doctor if you feel unwell.

First aid measures after inhalation: Remove person to fresh air and keep comfortable for breathing. Call a poison

centre or doctor if you feel unwell.

First aid measures after skin contact: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation

or rash occurs; Get medical advice/attention.

First aid measures after eye contact: Rinse cautiously with water for several minutes. Remove contact lenses, if

present and east to do. Continue rinsing. Call a physician immediately.

First aid measures after ingestion: Rinse mouth. Call a poison centre or a doctor if you feel unwell.

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

Symptoms/effects after skin contact: Irritation. May cause an allergic skin reaction.

Symptoms/effects after eye contact: Serious damage to eyes.

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

Treat Symptomatically.

Section 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Use extinguishing media appropriate for surrounding fire.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products

in case of fire: Toxic fumes may be released.

5.3. Advice for firefighters

Protecting during firefighting: Do not attempt to take action without suitable protect equipment.

Self-contained breathing apparatus. Complete protective clothing.

Section 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Emergency procedures: Ventilate spillage area. Avoid breathing fume, mist, spray, vapours. Avoid contact

with skin and eyes.

6.1.2 For emergency responders

Protective equipment: Do not attempt to take action without suitable protective equipment. For further

information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment: Collect spillage.

Methods for cleaning up: Take up liquid spill into absorbent material

Other information: Dispose of materials or solid residues at an authorised site.

6.4. Reference to other sections

For further information refer to section 13.

Section 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling: Do not breathe fume, mist, spray, vapours. Use only outdoors or in a well-

ventilated area. Avoid contact with skin and eyes. Wear personal protective

equipment.

Hygiene measures: Wash contaminated clothing before reuse. Contaminated work clothing should

not be allowed out of the workplace. Do not eat, drink or smoke when using this product. Always wash hands after handling the product. **7.2. Conditions for**

safe storage, including any incompatibilities

Storage conditions: Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

No additional information available.

Section 8: Exposure Controls/personal protection

8.1. Control parameters

2-(2-BUTOXYETHOXY)ETHANOL (112-34-5)				
United Kingdom	Local name	2-(2-Butoxyethoxy)ethanol		
United Kingdom	WEL TWA (mg/m³)	67.5 mg/m ³		
United Kingdom	WEL TWA (ppm)	10 ppm		
United Kingdom	WEL STEL (mg/m ³)	101.2 mg/m ³		
United Kingdom	WEL STEL (ppm)	15 ppm		

8.2. Exposure controls

Appropriate engineering controls: Ensure good ventilation of the work station.

Personal protective equipment: Avoid all unnecessary exposure. Gloves. Safety glasses. Protective clothing.

Materials for protective clothing: Wear suitable protective clothing.

Hand protection: Protective gloves. Eye protection: Safety glasses.

Skin and body protection: Wear suitable protective clothing. Respiratory protection: Wear respiratory protection.

Personal protective equipment symbols(s):







Environmental exposure controls:

Avoid release to the environment.

Section 9: Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state: Liquid

Appearance: Viscous liquid Colour: Pale yellow Odour: Characteristic Odour threshold: No data available pH: No data available Relative evaporation rate (butylacetate=1): No data available Melting point: Not applicable 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): No data available Vapour pressure: No data available Relative vapour density at 20°C: No data available Relative density: No data available Viscosity, kinematic: No data available Viscosity, dynamic: No data available Explosive properties: No data available No data available Oxidising properties:

Explosive limits:

9.2. Other information

No additional information available.

Section 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No addition information available.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decompostion products should not be produced.

Section 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity: Oral: Harmful if swallowed. Inhalation: dust, mist: Harmful if inhaled.

ATE CLP (oral) 1004.7371495979 mg/kg bodyweight

ATE CLP (dust, mist) 4.5801526718 mg/l/4h

2-(2-BUTOXYETHOXY)ETHANOL (112-34-5)

LD50 oral 5660 mg/kg bodyweight

LD50 dermal 2764 mg.kg bodyweight

LC50 inhalation rat (Dust/Mist – mg/l/4h) > 196 mg/l

SODIUM C10-13 ALKYL BENZENESULFONATE (68411-30-3)

LD50 oral 1080 mg/kg bodyweight

LD50 dermal > 2000 mg/kg bodyweight

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/irritation: Causes serious eye damage.

Respiratory or skin sensitisation: May cause an allergic skin reaction.

Germ cell mutagenicity:

Carcinogenicity:

Not classified.

Reproductive toxicity:

Not classified.

STOT-single exposure:

Not classified.

STOT-repeated exposure: May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard: Not classified.

Section 12: Ecological Information

12.1. Toxicity

Ecology – general: Very toxic to aquatic life with long lasting effects.

2-(2-BUTOXYETHOXY)ETHANOL (112-34-5)	
LC50 fish 1	1300 mg/l
EC50 other aquatic organisms 1	> 1000 mg/l waterflea
EC50 other aquatic organisms 2	> 100 mg/l

SODIUM C10-13 ALKYL BENZENESULFONATE (68411-30-3)		
LC50 fish 1	1.67mg/l	
EC50 other aquatic organisms 1	2.9 mg/l waterflea	
EC50 other aquatic organisms 2	127.9 mg/l	

12.2. Persistence and degradability

No additional information available.

12.3. Bioaccumulative potential

2-(2-BUTOXYETHOXY)ETHANOL (112-34-5)	
Log Pow	0.56
SODIUM C10-13 ALKVI BENZENESUI FONATE (69/11	-30-3/

SODIOM CIO-13 ALKIE BENZENESCH CHAIE (CC+1)	L-30-3,
Log Pow	3.32

12.4. Mobility in soil

No additional information available.

12.5. Results of PBT and vPvB assessment

No additional information available.

12.6. Other adverse effects

No additional information available.

Section 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods: Dispose of contents /container in accordance with licensed collector's sorting

instructions.

Ecology – waste materials: Avoid release to the environment.

Section 14: Transport information

14.1. UN number

ADR	IMDG	IATA	ADN	RID
3082	3082	3082	3082	3082

14.2. UN proper shipping name

ADR		IMDG	IATA	ADN	RID
HAZA SUBS LIQUI (Prop (±)-1 rophe pyl-1	RONMENTALLY ARDOUS STANCE, ID, N.O.S. biconazole (ISO),[2-(2,4-dichloenyl)4-pro- ,3-dioxolan-2-yl- iyl]-1H-1,2,4-tri- e)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propiconazole (ISO), (±)-1-[2-(2,4-dichlorophenyl)4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propiconazole (ISO), (±)-1-[2-(2,4-dichlorophenyl)4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propiconazole (ISO), (±)-1-[2-(2,4-dichlorophenyl)4-propyl-1,3-dioxolan-2-yl-methyl]-1H-1,2,4-tri-azole)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propiconazole (ISO), (±)-1-[2-(2,4-dichlo-rophenyl)4-propyl- 1,3-dioxolan-2-ylmethyl]- 1H-1,2,4-triazole)
Tran	sport document d	lescription			
HAZA SUBS LIQUI (Prop (±)-1 rophe pyl-1 meth	RONMENTALLY ARDOUS STANCE, ID, N.O.S. Diconazole (ISO),[2-(2,4-dichlo-enyl)4-pro-, ,3-dioxolan-2-yl-iyl]-1H-1,2,4-tri- e), 9, III, (E)	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propiconazole (ISO), (±)-1-[2-(2,4-dichlorophenyl)4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole), 9, III, MARINE POLLUTANT	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propiconazole (ISO), (±)-1-[2-(2,4-dichlorophenyl)4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propiconazole (ISO), (±)-1-[2-(2,4-dichlorophenyl)4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole), 9, III	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Propiconazole (ISO), (±)-1-[2-(2,4-dichlo- rophenyl)4-pro- pyl-1,3-dioxolan-2-yl- methyl]-1H-1,2,4-tri- azole), 9, III

14.3. Transport hazard class(es)

ADR	IMDG	IATA	ADN	RID
9	9	9	9	9

14.4. Packing group

ADR	IMDG	IATA	ADN	RID
III	III	III	Ш	LII

14.5. Environmental hazards

ADR	IMDG	IATA	ADN	RID	
Dangerous for the environment: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	
No supplementary information available					

14.6. Special precautions for user

Overland transport

Classification code (ADR): M6

Special provisions (ADR): 274, 335, 601, 375

Limited quantities (ADR: 5I Excepted quantities (ADR): E1

Packing instructions (ADR): P001, IBC03, LP01, R001

Mixed packing provisions (ADR): MP1

Portable tank and bulk container

Instructions (ADR):

Portable tank and bulk container

Special provisions (ADR): TP1, TP29
Tank code (ADR): LGBV
Vehicle for tank carriage: AT
Transport category (ADR): 3

Special provisions for carriage -

Packages (ADR): V12

Special provisions for carriage -

loading, unloading and handling (ADR): CV13

Hazard identification number

(Kemler No.): 90

Orange plates:

90 3082

Tunnel restriction code (ADR):

Transport by sea

Special provisions (IMDG): 274, 335, 969

Limited quantities (IMDG): 5 L Excepted quantities (IMDG): E1

Packing instructions (IMDG): P001, LP01

Special packing provisions (IMDG): PP1
IBC packing instructions (IMDG): IBC03
Tank Instructions (IMDG): T4

Tank special provisions (IMDG): TP2, TP29
EmS-No. (Fire): F-A
EmS-No (Spillage): S-F
Stowage category (IMDG): A

Air transport

PCA Excepted quantities (IATA): E1
PCA Limited quantities (IATA): Y964

PCA limited quantity max net quantity

(IATA): 30kgG
PCA packing instructions (IATA): 964
PCA max net quantity (IATA): 450L

CAO packing instructions (IATA): 964 CAO max net quantity (IATA): 450L

Special provisions (IATA): A97, A158, A197

ERG code (IATA): 9L

Inland waterway transport

Classification code (ADN): M6

Special provisions (ADN): 274, 335, 375, 601

Limited quantities (ADN): 5 L
Excepted quantities (ADN): E1
Carriage permitted (ADN): T
Equipment required (ADN): PP
Number of blue cones/lights (ADN): 0

Rail transport

Classification code (RID): M6

Special provisions (RID): 274, 335, 375, 601

Limited quantities (RID): 5 L Excepted quantities (RID): E1

Packing quantities (RID): P001, IBC03, LP01, R001

Special packing provisions (RID): PP1
Mixed packing provisions (RID): MP19

Portable tank and bulk container

Instructions (RID):

Portable tank and bulk container

Special provisions (RID): TP1, TP29
Tank codes for RID tanks (RID): LGBV
Transport category (RID): 3

Special provisions for carriage -

Packages (RID): W12

Special provisions for carriage –

loading, unloading and handling (RID): CW13, CW31

Colis express (express parcels) RID: CE8
Hazard identification number (RID): 90

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 15.1.1 EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

3. Liquid substances or mixtures which are regarded	Perr
as dangerous in accordance with Directive 199/45/	dime
EC or are fulfilling the criteria for any of the	carb
following hazard classes or categories set out in	(ISO
Annex 1 to Regulation (EC) No. 1272/2008	ylme
642.64	- ··

Permethrin (ISO), m-phenoxybenzyl 3-(2,2- dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate — 3-lod-2-propinylbutyl-carbamat — 2-(2-BUTOXYETHOXY)ETHANOL — Propiconazole (ISO), (±)-1-2[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole -

3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10

Tritec 60 Plus Insecticide Concentrate – permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate - 3-lod-2-propinylbutyl-carbamat – 2-(2-BUTOXYETHOXY)ETHANOL – Propiconazole (ISO), (\pm) -1-2[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole -

3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1

Tritec 60 plus Insecticide Concentrate – permethrin (ISO), m-phenoxybenzyl 3-(2,2-dichlorovinyl)—2,2-dimethylcyclopropanecarboxylate - 3-lod-2-propinylbutyl-carbamat – 2-(2-BUTOXYETHOXY)ETHANOL – Propiconazole (ISO), (\pm) -1-2[2-(2,4-dichlorophenyl)-4-propyl-1,3-dioxolan-2-ylmethyl]-1H-1,2,4-triazole - 2-(2-BUTOXYETHOXY)ETHANOL

55. 2-(2-Butoxyethoxy)ethanol (DEGBE)

Contains no substance on the REACH candidate list.

Contains no REACH Annex XIV substances.

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

Full text of H- and EUH statements:

Acute Tox. 3 (Inhalation)

Acute toxicity (inhal.), Category 3

Acute Tox 4. (Dermal)

Acute toxicity (dermal), Category 4

Acute Tox.4 (Inhalation)

Acute toxicity (inhal.), Category 4

Acute Tox. 4 (Oral) Acute toxicity (oral), Catergory 4

Aquatic Acute 1 Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1 Hazardous to the aquatic environment – Chronic Hazard, Category 1

Eye Dam. 1 Serious eye damage/eye irritation, Category 1
Eye Irrit. 2 Serious eye damage/eye irritation, Category 2

Skin Irrit. 2 Skin corrosion/irritation, Category 2

Skin Sens. 1 Skin sensitisation, Category

STOT RE 1 Specific target organ toxicity – Repeated exposure, Category 1
STOT RE 2 Specific target organ toxicity – Repeated exposure, Category 2

H302 Harmful if swallowed

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

H331 Toxic if inhaled
H332 Harmful if inhaled

H372 Causes damage to organs through prolonged or repeated exposure
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

The information provided in this safety data sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information provided is designed only as guidance for safe use, processing, handling, storage, transport, release and disposal. It 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 use in combination with any other materials or in any process, unless specified in this safety data sheet.

Triton Contact Details:

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