

Version 10 - This version replaces all previous versions.

Revision Date 02.02.2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name : TOPREX

Design code : A14049A

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

Use : Fungicide

1.3 Details of the supplier of the safety data sheet

Company Syngenta UK Limited

CPC4, Capital Park

Fulbourn Cambridge CB21 5XE

Telephone : (01223) 883400

Telefax : (01223) 882195

Website : www.syngenta.co.uk

1.4 Emergency telephone number

: +44 1484 538444

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EU) 1272/2008

Reproductive toxicity

Acute aquatic toxicity

Category 2

Category 1

H400

Chronic aquatic toxicity

Category 1

H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

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2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008





Signal Word : Warning

Hazard Statements :H361d Suspected of damaging the unborn child.

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

Precautions Statements :P102 Keep out of reach of children.

:P201 Obtain special instructions before use. :P273 Avoid release to the environment.

:P280 Wear protective gloves/protective clothing.

:P308/P313 IF exposed or concerned: Get medical advice/attention.

:P391 Collect spillage.

:P501 Dispose of contents/container to a licensed hazardous-

waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-

hazardous waste.

Supplemental :EUH401 To avoid risks to human health and the environment

comply with the instructions for use.

:EUH208 Contains 1,2-benzisothiazol-3-one. May produce an

allergic reaction.

Hazardous components which must be listed on the label:

paclobutrazol

2.3 Other hazards

Information

None known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS No. EC No. Registration Number	Classification (REGULATION (EC) No. 1272/2008	Concentration
difenoconazole	119446-68-3	Acute Tox.4; H302 Aquatic Acute1; H400 Aquatic Chronic1; H410	22.5 % w/w
paclobutrazol	76738-62-0	Acute Tox.4; H302 Eye Irrit.2; H319 Repr.2; H361d Acute Tox.4; H332 Aquatic Acute1; H400 Aquatic Chronic1; H410	11.3 % w/w
propane-1,2-diol	57-55-6 200-338-0	-	1 – 10 % w/w

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poly(oxy-1,2-ethanediyl), alpha- sulfo-omeg a-[tris(1-	119432-41-6 137672-70-9	Aquatic Chronic3; H412	1 – 5 % w/w
phenylethyl)phenoxy]-, ammonium salt	137072-70-9		

Substances for which there are Community workplace exposure limits. For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General Advice : Have the product container, label or Material Safety Data Sheet with you

when calling the Syngenta emergency number, a poison control centre or

physician, or going for treatment.

Inhalation : Move the victim to fresh air. If breathing is irregular or stopped, administer

artificial respiration. Keep patient warm and at rest. Call a physician or

Poison Control Centre immediately.

Skin Contact : Take off all contaminated clothing immediately. Wash off immediately with

plenty of water. If skin irritation persists, call a physician. Wash

contaminated clothing before re-use.

Eye Contact : Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes. Remove contact lenses. Immediate medical attention is

required.

Ingestion : If swallowed, seek medical advice immediately and show this container or

label. Do NOT induce vomiting.

4.2 Most important symptoms and effects, both acute and

delayed Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice : There is no specific antidote available.

Treat symptomatically.

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media - small fires

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media - large fires

Use alcohol-resistant foam or water spray.

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of

combustion (see section 10). Exposure to decomposition products may

be a hazard to health.

5.3 Advice for fire-fighters:

Wear full protective clothing and self-contained breathing apparatus. Do not allow run-off from fire fighting to enter drains or water courses. Cool

closed containers exposed to fire with water spray.

SECTION 6: ACCIDENTAL RELEASE MEASURES

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6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions:

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

6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13). If the product contaminates rivers and lakes or drains inform respective authorities.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8. Refer to disposal considerations listed in section 13.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required. Avoid contact with skin and eyes. When using do not eat, drink or smoke. For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

Registered Crop Protection products: For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
Difenoconazole	8 mg/m³	8 h TWA	SYNGENTA
Paclobutrazol	5 mg/m³	8 h TWA	SYNGENTA
Propane-1,2-diol	10 mg/m³ (particulates)	8 h TWA	UK HSE
	150 ppm, 470 mg/m³ (Total	8 h TWA	UK HSE
	(vapour & particulates))		

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

8.2 Exposure controls

Engineering Measures

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mist or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

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Protective measures The use of technical measures should always have priority over the

> use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate

standards.

Respiratory protection No personal respiratory protective equipment normally required. A

particulate filter respirator may be necessary until effective technical

measures are installed.

Hand protection Chemical resistant gloves are not usually required. Select gloves

based on the physical job requirements.

: Eye protection is not usually required. Follow any site specific eye Eye Protection

protection policies.

Skin and body protection

: No special protective equipment required. Select skin and body

protection based on the physical job requirements.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical State Liquid Liquid Form

Off-white to beige Colour Odour : Characteristic : No data available Odour Threshold : 4 - 8 at 1 % w/v pН Melting point/range No data available Boiling point/boiling range : No data available

Flash point >100°C at 100.9 kPa Pensky-Marstens c.c.

Evaporation rate : No data available : No data available Flammability (solid, gas) : No data available Lower explosion limit Upper explosion limit : No data available Vapour pressure : No data available Relative vapour density : No data available **Density** : 1.11 g/cm3 at 20°C Solubility in other solvents : No data available

Partition Coefficient : No data available

n-octanol/water

Autoignition temperature : No data available Thermal decomposition : No data available

: 36.2 - 263 mPa.s at 40°C Viscosity, dynamic : 49.1 – 317 mPa.s at 20°C Viscosity, kinematic

Explosive properties : Not explosive Oxidizing properties : Not oxidising

9.2 Other information

: No data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity : No information available 10.2 Chemical Stability No information available

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products

10.3 Possibility of hazardous reactions : None known. Hazardous polymerisation does not

occur.

10.4 Conditions to avoid : No information available10.5 Incompatible materials : No information available

10.6 Hazardous decomposition : Combustion or thermal decomposition will evolve

toxic and irritant vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute oral toxicity : LD50 female rat, > 2,000 mg/kg

Acute inhalational toxicity : LC50 male and female rat, > 5.05 mg/l, 4 h Acute dermal toxicity : LD50 male and female rat, > 2,000 mg/kg

Skin corrosion/irritation : rabbit: Non-irritating
Serious eye damage/eye : rabbit: Non-irritating

irritation

Respiratory or skin

sensitisation

Buehler Test guinea pig: Not a skin sensitizer in animal tests.

Germ cell mutagenicity

difenoconazole : Did not show mutagenic effects in animal experiments. paclobutrazol : Did not show mutagenic effects in animal experiments.

Carcinogenicity

difenoconazole : Did not show carcinogenic effects in animal experiments. paclobutrazol : Did not show carcinogenic effects in animal experiments.

Teratogenicity:

No information available.

difenoconazole

Reproductive toxicity

difenoconazole : Did not show reproductive toxicity effects in animal experiments. paclobutrazol : Embryo/foetotoxic effects have been reported in rates at doses of

maternal toxicity.

STOT – repeated exposure

difenoconazole: No adverse effect has been observed in chronic toxicity tests.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Toxicity to aquatic plants

Toxicity to fish : LC50 Oncorhynchus mykiss (rainbow trout), 7.1 mg/l, 96 h

Toxicity to aquatic

invertebrates

EC50 Daphnia magna (Water flea), 4.8 mg/l, 48 h

ErC50 Pseudokirchneriella subcapitata (green algae), 3.2 mg/l, 96 h

EbC50 Pseudokirchneriella subcapitata (green algae), 0.85 mg/l, 96 h

EbC50 Lemna gibba (duckweed), 0.1 mg/l, 7 d ErC50 Lemna gibba (duckweed), 0.45 mg/l, 7 d

Derived from components.

12.2 Persistence and degradability

Biodegradability

paclobutrazol: Not readily biodegradable.

Stability in water

difenoconazole : Degradation half life: 1 d. Not persistent in water

paclobutrazol : Degradation half life: 167 – 1,378 d. Persistent in water

Stability in soil

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> Degradation half life: 149 – 187 d. Not persistent in soil difenoconazole Degradation half life: 43 - 634 d. Persistent in soil paclobutrazol

12.3 Bioaccumulative potential

difenoconazole paclobutrazol

poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-[tris(1-

phenylethyl) phenoxyl]ammonium salt

12.4 Mobility in soil

difenoconazole paclobutrazol poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-[tris(1phenylethyl) phenoxyl]-

ammonium salt

High potential for bioaccumulate

Does not bioaccumulate.

No data available

: Low mobility in soil.

No data available

No data available.

Medium mobility in soil.

12.5 Results of PBT and vPvB assessment

Difenoconazole, paclobutrazol,

These substances are not considered to be persistent,

bioaccumulating nor toxic (PBT).

These substances are not considered to be very persistent nor

very bioaccumulating (vPvB).

poly(oxy-1,2-ethanediyl), alpha-sulfo-omega-[tris(1phenylethyl) phenoxyl]-

ammonium salt

Other information

: Classification of the product is based on the summation of the

concentrations of classified components.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with

> chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in

compliance with local regulations.

Contaminated packaging Empty remaining contents. Triple rinse containers. Empty

containers should be taken for local recycling or waste

disposal. Do not re-use empty containers.

SECTION 14: TRANSPORT INFORMATION

Land transport (ADR/RID)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
			(DIFENOCONAZOLE AND PACLOBUTRAZOL)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Labels		:	9
14.5	Environmental hazards	:	Environmentally hazardous

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Tunnel restriction code	E
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Sea transport(IMDG)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
			(DIFENOCONAZOLE AND PACLOBUTRAZOL)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Label	S	:	9
14.5	Environmental hazards	:	Marine pollutant

Air transport (IATA-DGR)

14.1	UN Number	:	UN 3082
14.2	UN proper shipping name	:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE,
			(DIFENOCONAZOLE AND PACLOBUTRAZOL)
14.3	Transport hazard class(es)	:	9
14.4	Packing Group	;	III
Label	S	:	9
14.6	Special precautions for	:	NONE
	user		

14.6 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15: REGULATORY INFORMATION

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

GHS-Labelling

Hazard pictograms





Signal Word : Warning

Hazard Statements :H361d Suspected of damaging the unborn child.

> :H410 Very toxic to aquatic life with long lasting effects.

Precautions Statements :P102 Keep out of reach of children.

:P501

Obtain special instructions before use. :P201 :P273 Avoid release to the environment.

:P280 Wear protective gloves/protective clothing.

IF exposed or concerned: Get medical advice/attention. :P308/P313

Collect spillage. :P391

Dispose of contents/container to a licensed hazardous-

waste disposal contractor or collection site except for empty clean containers which can be disposed of as non-

hazardous waste.

Supplemental :EUH401 To avoid risks to human health and the environment Information

comply with the instructions for use.

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:EUH208 Contains 1,2-benzisothiazol-3-one. May produce an allergic reaction.

Hazardous components which must be listed on the label:

paclobutrazol

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16: OTHER INFORMATION

Further information

Approval number, MAPP 16456; PCS No. 05206.

Use plant protection products safely. Always read the label and product information before use. Based upon SDS release dated 02.02.2015, version 10 with local amendment.

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

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful 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 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.

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