XYWAY 3D FUNGICIDE



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SECTION 1. IDENTIFICATION

Product identifier

Product name XYWAY 3D FUNGICIDE

Other means of identification

Product code 50002147

Chemical nature Mixture

Recommended use of the chemical and restrictions on use

Recommended use

Can be used as fungicide only.

Restrictions on useUse as recommended by the label.

Details of the supplier of the safety data sheet

<u>Manufacturer</u> FMC Corporation

2929 WALNUT ST

PHILADELPHIA PA 19104

USA

(215) 299-6000 (General Information)

SDS-Info@fmc.com

Emergency telephone

For leak, fire, spill or accident emergencies, call:

1 800 / 424-9300 (CHEMTREC - U.S.A.) 1 703 / 741-5970 (CHEMTREC - International) 1 703 / 527-3887 (CHEMTREC - Alternate)

Medical emergency:

U.S.A. & Canada: +1 800 / 331-3148

All other countries: +1 651 / 632-6793 (Collect)

SECTION 2. HAZARDS IDENTIFICATION

GHS classification in accordance with the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity (Oral) : Category 4

Acute toxicity (Inhalation) : Category 4

Skin irritation : Category 2

Eye irritation : Category 2A

Skin sensitization : Category 1B

Specific target organ toxicity

- single exposure

Category 3 (Respiratory system)

- sirigie exposure

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GHS label elements

Hazard pictograms :

(!>

Signal Word : Warning

Hazard Statements : H302 + H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H335 May cause respiratory irritation.

Precautionary Statements

Prevention:

P261 Avoid breathing mist or vapors. P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/ eye protection/ face protection.

Response:

P301 + P312 + P330 IF SWALLOWED: Call a POISON

CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 IF ON SKIN: Wash with plenty of water and soap. P304 + P340 + P312 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/

doctor if you feel unwell.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

to do. Continue mising.

P332 + P313 If skin irritation occurs: Get medical advice/ atten-

P337 + P313 If eye irritation persists: Get medical advice/ atten-

P362 Take off contaminated clothing and wash before reuse.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container

tightly closed.

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste dis-

posal plant.

Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical nature : Mixture

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Components

Chemical name	CAS-No.	Concentration (% w/w)
(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol	76674-21-0	>= 20 - < 30
sodium decyl sulphate	142-87-0	>= 5 - < 10
glycerol	56-81-5	>= 5 - < 10
Poly(oxy-1,2-ethanediyl), .alpha tridecylomegahydroxy-, phos- phate, potassium salt	68186-36-7	>= 1 - < 5
D-Glucopyranose, oligomeric, C9-11-alkyl glycosides	132778-08-6	>= 1 - < 5
sodium dodecyl sulphate	151-21-3	>= 1 - < 5

Actual concentration is withheld as a trade secret

SECTION 4. FIRST AID MEASURES

General advice Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled If unconscious, place in recovery position and seek medical

advice.

If symptoms persist, call a physician.

In case of skin contact If skin irritation persists, call a physician.

> If on skin, rinse well with water. If on clothes, remove clothes.

In case of eye contact Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

If swallowed Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms

and effects, both acute and

delayed

Harmful if swallowed or if inhaled.

Causes skin irritation.

May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation.

: Treat symptomatically. Notes to physician

SECTION 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media : Dry chemical, CO2, water spray or regular foam.

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Unsuitable extinguishing

media

: High volume water jet

Specific hazards during fire

fighting

Do not allow run-off from fire fighting to enter drains or water

courses.

Hazardous combustion prod-

ucts

Thermal decomposition can lead to release of irritating gases

and vapors.

Nitrogen oxides (NOx)

Carbon oxides

Fluorinated compounds

Further information : Collect contaminated fire extinguishing water separately. This

must not be discharged into drains.

Fire residues and contaminated fire extinguishing water must

be disposed of in accordance with local regulations.

Special protective equipment :

for fire-fighters

Wear self-contained breathing apparatus for firefighting if nec-

essary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protec- :

tive equipment and emer-

gency procedures

Use personal protective equipment.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for

containment and cleaning up

Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

SECTION 7. HANDLING AND STORAGE

Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapors/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the ap-

plication area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

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Containers which are opened must be carefully resealed and

kept upright to prevent leakage. Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on stor-

age stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredients with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
glycerol	56-81-5	TWA (mist, respirable fraction)	5 mg/m3	OSHA Z-1
		TWA (mist, total dust)	15 mg/m3	OSHA Z-1
		TWA (Mist - total dust)	10 mg/m3	OSHA P0
		TWA (Mist - respirable fraction)	5 mg/m3	OSHA P0

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally re-

quired.

Remarks : The suitability for a specific workplace should be discussed

with the producers of the protective gloves.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

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Color : No data available

Odor : No data available

pH : 6.99

(1% solution in water)

Melting point/freezing point : No data available

Initial boiling point and boiling

range

No data available

Flash point : $> 212 \,^{\circ}\text{F} / > 100 \,^{\circ}\text{C}$

Evaporation rate : No data available

Self-ignition : No data available

Upper explosion limit / Upper

flammability limit

No data available

Lower explosion limit / Lower

flammability limit

No data available

Vapor pressure : No data available

Relative vapor density : No data available

Density : 9.4628 lb/gal (75.9 °F / 24.4 °C)

Solubility(ies)

Water solubility : Miscible

Solubility in other solvents : No data available

Partition coefficient: n-

octanol/water

No data available

Autoignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : 306.7 mPa.s (69.4 °F / 20.8 °C)

91.45 mPa.s (105.6 °F / 40.9 °C)

Viscosity, kinematic : No data available

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Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle size : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

No decomposition if stored and applied as directed.

Chemical stability : The product is chemically stable.

No decomposition if stored and applied as directed.

Possibility of hazardous reac-

tions

No decomposition if stored and applied as directed.

Conditions to avoid : Heat, flames and sparks.

Incompatible materials : Strong oxidizing agents

Copper

Hazardous decomposition

products

No decomposition if stored and applied as directed.

SECTION 11. TOXICOLOGICAL INFORMATION

Acute toxicity

Harmful if swallowed or if inhaled.

Product:

Acute oral toxicity : LD50 Oral (Rat): ca. 1,030 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.08 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Acute dermal toxicity : LD50 Dermal (Rat): > 5,000 mg/kg

Skin corrosion/irritation

Causes skin irritation.

Product:

Species : Rabbit

Result : Moderate skin irritation

Remarks : May cause skin irritation in susceptible persons.

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Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Species : Rabbit

Result : Moderate eye irritation

Remarks : May cause irreversible eye damage.

Respiratory or skin sensitization

Skin sensitization

May cause an allergic skin reaction.

Respiratory sensitization

Not classified based on available information.

Product:

Test Type : Local lymph node assay (LLNA)

Species : mice

Assessment : The product is a skin sensitizer, sub-category 1B.

Result : Causes skin sensitization.

Germ cell mutagenicity

Not classified based on available information.

Components:

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Genotoxicity in vivo : Test Type: dominant lethal test

Method: OECD Test Guideline 478

Result: negative

sodium decyl sulphate:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro

Result: negative

Remarks: Based on data from similar materials

Test Type: In vitro mammalian cell gene mutation test

Result: negative

Remarks: Based on data from similar materials

Test Type: reverse mutation assay

Method: Mutagenicity (Salmonella typhimurium - reverse mu-

tation assay) Result: negative

Genotoxicity in vivo : Test Type: dominant lethal test

Species: Mouse (male and female)

Application Route: Oral

Result: negative

Remarks: Based on data from similar materials

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Germ cell mutagenicity -

Assessment

Weight of evidence does not support classification as a germ

cell mutagen.

glycerol:

Genotoxicity in vitro : Test Type: reverse mutation assay

Result: negative

sodium dodecyl sulphate:

Genotoxicity in vitro : Test Type: reverse mutation assay

Test system: Escherichia coli Method: OECD Test Guideline 471

Result: negative

Test Type: In vitro mammalian cell gene mutation test

Test system: mouse lymphoma cells

Result: negative

Genotoxicity in vivo : Test Type: chromosome aberration assay

Species: Mouse (male and female)

Application Route: Oral

Result: negative

Carcinogenicity

Not classified based on available information.

Components:

(RS)-2,4'-difluoro- α -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Species : Mouse Exposure time : 2 Years

NOAEL : 1.2 mg/kg bw/day

Result : negative

Species : Rat Exposure time : 2 Years

NOAEL : 1 mg/kg bw/day

Result : negative

Carcinogenicity - Assess-

ment

: Animal testing did not show any carcinogenic effects.

sodium decyl sulphate:

Species : Rat, male and female

Application Route : Oral Exposure time : 2 Years

Dose : 0, 11, 113, 1125 mg/kg bw NOAEL : 1,125 mg/kg bw/day

Result : negative

Remarks : Based on data from similar materials

Carcinogenicity - Assess- : Weight of evidence does not support classification as a car-

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ment cinogen

glycerol:

Species : Rat Application Route : Oral

Exposure time : 2 years Years Result : negative

sodium dodecyl sulphate:

Species : Rat
Application Route : Oral
Exposure time : 2 Years
NOAEL : 1,125
LOAEL : > 1,125
Result : negative

IARC No ingredient of this product present at levels greater than or equal to 0.1% is

identified as probable, possible or confirmed human carcinogen by IARC.

OSHANo component of this product present at levels greater than or equal to 0.1% is

on OSHA's list of regulated carcinogens.

NTP No ingredient of this product present at levels greater than or equal to 0.1% is

identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Not classified based on available information.

Components:

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Reproductive toxicity - As- : Animal testing did not show any effects on fertility.

sessment Animal testing showed no developmental toxicity.

sodium decyl sulphate:

Effects on fertility : Test Type: reproductive and developmental toxicity study

Species: Rat

Application Route: Oral

Dose: 0, 63, 125, 250, 500 mg/kg

General Toxicity Parent: LOAEL: 500 mg/kg bw/day

Result: negative

Remarks: Based on data from similar materials

Reproductive toxicity - As-

sessment

Weight of evidence does not support classification for repro-

ductive toxicity

glycerol:

Effects on fertility : Test Type: Two-generation study

Species: Rat

Application Route: Oral

Result: negative

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Effects on fetal development : Test Type: Two-generation study

Species: Rat

Application Route: Oral

Result: negative

sodium dodecyl sulphate:

Effects on fertility : Test Type: Two-generation study

Species: Rat

Application Route: Oral

General Toxicity Parent: NOAEL: 300 mg/kg body weight General Toxicity F1: NOAEL: 300 mg/kg body weight

Result: negative

Remarks: Based on data from similar materials

Effects on fetal development : Test Type: Embryo-fetal development

Species: Rat

Application Route: Oral

Duration of Single Treatment: 6 - 15 d

General Toxicity Maternal: NOEL: 250 mg/kg body weight Developmental Toxicity: NOEL: 250 mg/kg body weight

Result: negative

Remarks: Based on data from similar materials

STOT-single exposure

May cause respiratory irritation.

Components:

(RS)-2,4'-difluoro- α -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Assessment : May cause respiratory irritation.

sodium decyl sulphate:

Assessment : May cause respiratory irritation.

STOT-repeated exposure

Not classified based on available information.

Components:

sodium dodecyl sulphate:

Assessment : The substance or mixture is not classified as specific target

organ toxicant, repeated exposure.

Repeated dose toxicity

Components:

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Species : Rat

NOAEL : 13.3 mg/kg bw/day

Application Route : Oral - feed

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Exposure time : 90 d

Symptoms : anemia, Liver effects

Species : Dog

NOAEL : 5 mg/kg bw/day

Application Route : Oral Exposure time : 90 d

Symptoms : anemia, Liver effects

sodium decyl sulphate:

Species : Rat, male and female NOAEL : 488 mg/kg bw/day LOAEL : 1016 mg/kg bw/day

Application Route : Oral - feed Exposure time : 91 d

Dose : 62,122,245,488,1016,2081mg/kgb

Target Organs : Liver

Remarks : Based on data from similar materials

Species : Mouse, male and female NOAEL : 400 mg/kg bw/day LOAEL : 500 mg/kg bw/day

Application Route : Dermal

Dose : 0,200,400,500,600mg/kgbw/day

Symptoms : Necrosis

Remarks : Based on data from similar materials

glycerol:

Species : Rat
LOAEL : 1 mg/kg
Application Route : Inhalation
Exposure time : 14 d

Dose : 0, 1, 1.93, 3.91 mg/L

Symptoms : respiratory tract irritation, Fatality

Species : Rat
NOAEL : 0.165 mg/l
LOAEL : 0.662 mg/l
Application Route : Inhalation
Exposure time : 13 w

Dose : 0, 0.033, 0.165, 0.662 mg/L Symptoms : respiratory tract irritation

sodium dodecyl sulphate:

Species : Rat
NOAEL : 488 mg/kg
LOAEL : 1,016 mg/kg
Application Route : Oral - feed
Exposure time : 13 weeks

Aspiration toxicity

Not classified based on available information.

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Components:

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

The substance does not have properties associated with aspiration hazard potential.

Neurological effects

Components:

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

No neurotoxicity observed in animal studies.

Further information

Product:

Remarks : No data available

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 61 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 78 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

IC50 (Selenastrum capricornutum (green algae)): 12 mg/l

Exposure time: 96 h

IC50 (Scenedesmus subspicatus): 1.9 mg/l

Exposure time: 72 h

Toxicity to fish (Chronic tox-

icity)

NOEC (Oncorhynchus mykiss (rainbow trout)): 6.2 mg/l

Exposure time: 28 d

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

NOEC (Daphnia magna (Water flea)): 0.31 mg/l

Exposure time: 21 d

Toxicity to soil dwelling or-

ganisms

NOEC (Eisenia fetida (earthworms)): 0.01 mg/cm2

Exposure time: 180 d

Toxicity to terrestrial organ-

isms

LD50 (Apis mellifera (bees)): > 50 μg/bee

End point: Acute contact toxicity

LD50 (Apis mellifera (bees)): > 2 µg/bee

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End point: Acute oral toxicity

LD50 (Anas platyrhynchos (Mallard duck)): > 5,000 mg/kg

sodium decyl sulphate:

Toxicity to fish LC50 (Cyprinus carpio (Carp)): 13 mg/l

> Exposure time: 48 h Test Type: static test

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 470 mg/l

Exposure time: 24 h

Toxicity to algae/aquatic

plants

EC50 (Pseudokirchneriella subcapitata (green algae)): 8.64

mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): > 1.357 mg/l

Exposure time: 42 d

Test Type: flow-through test

Remarks: Based on data from similar materials

Toxicity to daphnia and other

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Daphnia magna (Water flea)): 1.4 mg/l

Exposure time: 21 d

Method: OECD Test Guideline 211

EC50 (activated sludge): 135 mg/l Toxicity to microorganisms

Exposure time: 3 h

Test Type: Respiration inhibition

Remarks: Based on data from similar materials

glycerol:

Toxicity to fish LC50 (Fish): 885 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 1,955 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Scenedesmus capricornutum (fresh water algae)):

2,900 mg/l

Exposure time: 192 h

Toxicity to microorganisms EC10 (Pseudomonas putida): 10,000 mg/l

Exposure time: 16 h

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Ecotoxicology Assessment

Acute aquatic toxicity Toxic effects cannot be excluded

Toxic effects cannot be excluded Chronic aquatic toxicity

D-Glucopyranose, oligomeric, C9-11-alkyl glycosides:

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Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): 2.95 mg/l

Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

EC50 (Crustaceans): 26.2 mg/l

Exposure time: 48 h

Toxicity to algae/aquatic

plants

EC50 (Skeletonema costatum (Diatom)): 9.05 mg/l

Exposure time: 72 h Method: ISO 10253

Toxicity to microorganisms : EC50 (Pseudomonas putida): > 560 mg/l

sodium dodecyl sulphate:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 29 mg/l

Exposure time: 96 h

Test Type: flow-through test Method: OECD Test Guideline 203

LC50 (Fish): 3.6 mg/l Exposure time: 96 h

Toxicity to daphnia and other :

aquatic invertebrates

LC50 (Ceriodaphnia dubia (water flea)): 5.55 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic

plants

EC50 (Desmodesmus subspicatus (green algae)): 53 mg/l

Exposure time: 72 h Test Type: static test

NOEC (Desmodesmus subspicatus (green algae)): 30 mg/l

Exposure time: 72 h Test Type: static test

Toxicity to fish (Chronic tox-

icity)

NOEC (Pimephales promelas (fathead minnow)): > 1.357 mg/l

Exposure time: 42 d

Test Type: flow-through test Method: No data available

Toxicity to daphnia and other :

aquatic invertebrates (Chron-

ic toxicity)

NOEC (Ceriodaphnia dubia (water flea)): 0.88 mg/l

Exposure time: 7 d

Test Type: flow-through test

Toxicity to microorganisms : EC50 (activated sludge): 135 mg/l

Exposure time: 3 h

Test Type: Respiration inhibition

Persistence and degradability

Product:

Biodegradability : Remarks: Product is not expected to be biodegradable.

Components:

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

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Biodegradability : Result: Not readily biodegradable.

sodium decyl sulphate:

Biodegradability : Inoculum: activated sludge

Result: Readily biodegradable.

Biodegradation: 98 % Exposure time: 30 d

Method: OECD Test Guideline 301D

glycerol:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 94 % Exposure time: 24 h

Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, phosphate, potassium salt:

Biodegradability : Result: Readily biodegradable.

Biodegradation: 80 % Exposure time: 28 d

Method: OECD Test Guideline 301D

Remarks: Based on data from similar materials

D-Glucopyranose, oligomeric, C9-11-alkyl glycosides:

Biodegradability : Result: Readily biodegradable.

sodium dodecyl sulphate:

Biodegradability : aerobic

Inoculum: activated sludge, non-adapted

Concentration: 20 mg/l Result: Readily biodegradable.

Biodegradation: 95 % Exposure time: 28 d

Method: OECD Test Guideline 301B

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

Components:

 $(RS)-2,4'-difluoro-\alpha-(1H-1,2,4-triazol-1-ylmethyl) benzhydryl \ alcohol:$

Bioaccumulation : Species: Salmo gairdneri

Bioconcentration factor (BCF): 7 Remarks: Bioaccumulation is unlikely.

See section 9 for octanol-water partition coefficient.

Partition coefficient: n-

octanol/water

log Pow: 2.29

sodium decyl sulphate:

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Partition coefficient: n- : log Pow: 1.72 (77 °F / 25 °C)

octanol/water pH: 7.94 - 7.95

glycerol:

Partition coefficient: n- : log Pow: -1.75 (77 °F / 25 °C)

octanol/water pH: 7.4

D-Glucopyranose, oligomeric, C9-11-alkyl glycosides:

Partition coefficient: n- : log Pow: 3.7

octanol/water Method: OECD Test Guideline 117

sodium dodecyl sulphate:

Partition coefficient: n-

octanol/water

log Pow: -2.03 (68 °F / 20 °C)

Mobility in soil

Product:

Mobility : Remarks: This chemical is known to leach through soil into

ground water under certain conditions.

Components:

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Distribution among environ-

mental compartments

: Remarks: medium mobility in soil

Other adverse effects

Product:

Ozone-Depletion Potential : Regulation: 40 CFR Protection of Environment; Part 82 Pro-

tection of Stratospheric Ozone - CAA Section 602 Class I

Substances

Remarks: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life.

Toxic to aquatic life with long lasting effects.

Components:

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl alcohol:

Additional ecological infor-

mation

An environmental hazard cannot be excluded in the event of

unprofessional handling or disposal.

Harmful to aquatic life with long lasting effects.

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

Waste from residues : The product should not be allowed to enter drains, water

courses or the soil.

Do not contaminate ponds, waterways or ditches with chemi-

cal or used container.

Send to a licensed waste management company.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International Regulations

UNRTDG

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Flutriafol)

Class : 9 Packing group : III

Labels : 9

IATA-DGR

UN/ID No. : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Flutriafol)

Class : 9 Packing group : III

Labels : Miscellaneous

Packing instruction (cargo

aircraft)

Packing instruction (passen- :

racking instruction (p

964

964

ger aircraft)

IMDG-Code

UN number : UN 3082

Proper shipping name : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.

(Flutriafol)

Class : 9
Packing group : III
Labels : 9
EmS Code : F-A, S-F
Marine pollutant : yes

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

Not applicable for product as supplied.

Domestic regulation

49 CFR

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UN/ID/NA number : UN 3082

Proper shipping name : Environmentally hazardous substance, liquid, n.o.s.

(Flutriafol)

Class : 9 Packing group : III

Labels : CLASS 9
ERG Code : 171
Marine pollutant : yes

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

SECTION 15. REGULATORY INFORMATION

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
ethylbenzene	100-41-4	100	100 (F003)

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 302 Extremely Hazardous Substances Threshold Planning Quantity

This material does not contain any components with a section 302 EHS TPQ.

SARA 311/312 Hazards : Flammable (gases, aerosols, liquids, or solids)

Acute toxicity (any route of exposure)

Skin corrosion or irritation

Serious eye damage or eye irritation

Specific target organ toxicity (single or repeated exposure)

SARA 313 : This material does not contain any chemical components with

known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

Clean Air Act

This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 112 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCMI Intermediate or Final VOC's (40 CFR 60.489):

glycerol 56-81-5 >= 5 - < 10 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

 sodium hydroxide
 1310-73-2 >= 0 - < 0.1 %</td>

 ethylbenzene
 100-41-4 >= 0 - < 0.1 %</td>

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The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table

117.3:

sodium hydroxide 1310-73-2 >= 0 - < 0.1 % ethylbenzene 100-41-4 >= 0 - < 0.1 %

This product does not contain any toxic pollutants listed under the U.S. Clean Water Act Section

307

This product does not contain any priority pollutants related to the U.S. Clean Water Act

US State Regulations

Massachusetts Right To Know

glycerol 56-81-5

Pennsylvania Right To Know

water 7732-18-5 (RS)-2,4'-difluoro- α -(1H-1,2,4-triazol-1-ylmethyl)benzhydryl 76674-21-0

alcohol

sodium decyl sulphate 142-87-0 glycerol 56-81-5 Poly(oxy-1,2-ethanediyl), .alpha.-tridecyl-.omega.-hydroxy-, 68186-36-7

phosphate, potassium salt

sodium sulphate 7757-82-6

Maine Chemicals of High Concern

Product does not contain any listed chemicals

Vermont Chemicals of High Concern

ethylbenzene 100-41-4

Washington Chemicals of High Concern

ethylbenzene 100-41-4

California Prop. 65

WARNING: This product can expose you to chemicals including ethylbenzene, which is/are known to the State of California to cause cancer. For more information go to www.P65Warnings.ca.gov.

California Permissible Exposure Limits for Chemical Contaminants

glycerol 56-81-5

The ingredients of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : Product contains substance(s) not listed on TSCA inventory.

AIIC : Not in compliance with the inventory

DSL : This product contains the following components that are not

on the Canadian DSL nor NDSL.

(RS)-2,4'-difluoro-α-(1H-1,2,4-triazol-1-ylmethyl)benzhydryl

alcohol

ENCS : Not in compliance with the inventory

ISHL : Not in compliance with the inventory

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KECI: Not in compliance with the inventory

PICCS : Not in compliance with the inventory

IECSC : Not in compliance with the inventory

NZIoC : Not in compliance with the inventory

TECI: Not in compliance with the inventory

TSCA list

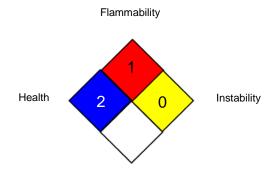
No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

SECTION 16. OTHER INFORMATION

Further information

NFPA 704:



Special hazard

0 No health threat, 1 Slightly Hazardous, 2Hazardous, 3 Extreme danger, 4 Deadly

HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of other abbreviations

OSHA P0 : USA. Table Z-1-A Limits for Air Contaminants (1989 vacated

values)

OSHA Z-1 : USA. Occupational Exposure Limits (OSHA) - Table Z-1 Lim-

its for Air Contaminants

OSHA P0 / TWA : 8-hour time weighted average OSHA Z-1 / TWA : 8-hour time weighted average

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of

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the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS - Emergency Schedule: ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI -Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA - National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ -Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

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End of Material Safety Data Sheet