



**(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM
HEXAFLUOROANTIMONATE-
BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER
HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate**

Safety Data Sheet OMAN076

Date of issue: 08/04/2015

Revision date: 21/05/2019

Version: 2.0

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

1.1. Product identifier

Product form : Mixture
Physical state : Liquid
Product name : (THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE-
BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE
BLEND, 50% in propylene carbonate
Product code : OMAN076
Formula : C₂₄H₁₉F₆S₂Sb (first component)
Chemical family : ANTIMONY COMPOUND

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Chemical intermediate

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

GELEST, INC.

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1.4. Emergency telephone number

Emergency number : CHEMTREC: 1-800-424-9300 (USA); +1 703-527-3887 (International)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 H319
Skin sensitisation, Category 1 H317
Hazardous to the aquatic environment — Acute Hazard, Category 1 H400
Hazardous to the aquatic environment — Chronic Hazard, Category 1 H410
Full text of H statements : see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE- BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

Safety Data Sheet

2.2. Label elements

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

Hazard pictograms (CLP) :



Signal word (CLP) :

Warning

Hazardous ingredients :

(Thiophenoxy)diphenylsulfonium hexafluoroantimonate; Bis(diphenylsulfonim)diphenylthioether hexafluoroantimonate

Hazard statements (CLP) :

H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP) :

P280 - Wear protective gloves/protective clothing/eye protection/face protection.
P261 - Avoid breathing mist.
P264 - Wash hands thoroughly after handling.
P272 - Contaminated work clothing should not be allowed out of the workplace.
P273 - Avoid release to the environment.
P302+P352 - IF ON SKIN: Wash with plenty of water.

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]
Propylene carbonate	(CAS-No.) 108-32-7 (EC-No.) 203-572-1 (EC Index-No.) 607-194-00-1	< 50	Eye Irrit. 2, H319
(Thiophenoxy)diphenylsulfonium hexafluoroantimonate	(CAS-No.) 71449-78-0 (EC Index-No.) 051-006-00-5	< 50	Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Bis(diphenylsulfonim)diphenylthioether hexafluoroantimonate	(CAS-No.) 89452-37-9	< 50	Skin Sens. 1, H317 Aquatic Acute 1, H400 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 :

Remove contaminated clothing and shoes. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). If possible show this sheet; if not available show packaging or label.

First-aid measures after inhalation :

Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice.

First-aid measures after skin contact :

Wash with plenty of water/.... Get medical advice/attention.

First-aid measures after eye contact :

Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical advice/attention.

First-aid measures after ingestion :

Never give anything by mouth to an unconscious person. Get medical advice/attention.

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

Symptoms/effects after inhalation :

May cause irritation to the respiratory tract.

(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE- BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

Safety Data Sheet

Symptoms/effects after skin contact	: May cause skin irritation. May cause an allergic skin reaction. Hot humid weather increases the contact irritation potential of this compound.
Symptoms/effects after eye contact	: Causes serious eye irritation.
Symptoms/effects after ingestion	: May be harmful if swallowed.

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

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Carbon dioxide. Dry chemical.
Unsuitable extinguishing media	: Avoid water spray as n-butanol will be generated.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Irritating fumes and organic acid vapors may develop when material is exposed to elevated temperatures or open flame.
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5.3. Advice for firefighters

Firefighting instructions	: Exercise caution when fighting any chemical fire.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection. Avoid all eye and skin contact and do not breathe vapour and mist.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment	: Wear protective equipment as described in Section 8.
Emergency procedures	: Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment	: Do not attempt to take action without suitable protective equipment. Equip cleanup crew with proper protection. For further information refer to section 8: "Exposure controls/personal protection".
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6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
Methods for cleaning up	: Collect spillage. Clean up any spills as soon as possible, using an absorbent material to collect it.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling	: Avoid all eye and skin contact and do not breathe vapour and mist. Use only in well ventilated areas.
Hygiene measures	: Wash contaminated clothing before reuse. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions	: Keep container tightly closed. Store <5°C away from light.
Incompatible materials	: Mineral acids.
Storage area	: Store in a well-ventilated place.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE- BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

Safety Data Sheet

Bis(diphenylsulfonim)diphenylthioether hexafluoroantimonate (89452-37-9)		
Italy - Portugal - USA ACGIH	ACGIH TWA (mg/m ³)	500 mg/m ³ Sb2O3
Propylene carbonate (108-32-7)		
Latvia	OEL TWA (mg/m ³)	2 mg/m ³
Lithuania	IPRV (mg/m ³)	7 mg/m ³

8.2. Exposure controls

Appropriate engineering controls:

Provide local exhaust or general room ventilation.

Personal protective equipment:

Avoid all unnecessary exposure. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure.

Hand protection:

Neoprene or nitrile rubber gloves

Eye protection:

Chemical goggles. Contact lenses should not be worn

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended. NIOSH-certified dust and mist (orange cartridge) respirator.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid.
Molecular mass	: 607.28/1028.28
Colour	: Amber. dark brown.
Odour	: Mildly. Disagreeable.
Odour threshold	: No data available
Refractive index	: No additional information available
pH	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: < 20 °C
Boiling point	: No data available
Flash point	: 145 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.03 mm Hg
Relative vapour density at 20 °C	: > 1
Relative density	: 1.4
% Volatiles	: < 3 %
Solubility	: Decomposes.
Log Pow	: No data available
Log Kow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available

(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE- BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

Safety Data Sheet

Explosive properties : No data available
 Oxidising properties : No data available
 Explosive limits : 2.3 vol % lower; (propylene carbonate)

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable in sealed containers stored away from light exposure.

10.3. Possibility of hazardous reactions

Material decomposes on exposure to light, especially UV light, liberating antimony fluorides. Decomposes slowly above 50°C.

10.4. Conditions to avoid

Ultraviolet light.

10.5. Incompatible materials

Mineral acids.

10.6. Hazardous decomposition products

Antimony fluoride fumes. Hydrogen fluoride. Organic acid vapors.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity : Not classified

(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE-BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

LD50 oral rat	> 5000 mg/kg
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Propylene carbonate (108-32-7)

LD50 oral rat	29000 mg/kg
LD50 dermal rabbit	> 20 ml/kg

Skin corrosion/irritation : Not classified
 Serious eye damage/irritation : Causes serious eye irritation.
 Respiratory or skin sensitisation : May cause an allergic skin reaction.
 Germ cell mutagenicity : Not classified
 negative Ames test for mutagenicity reported.
 Carcinogenicity : Not classified
 None of the components in this product at concentrations >0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.
 Reproductive toxicity : Not classified
 STOT-single exposure : Not classified
 STOT-repeated exposure : Not classified
 Aspiration hazard : Not classified
 Symptoms/effects after inhalation : May cause irritation to the respiratory tract.
 Symptoms/effects after skin contact : May cause skin irritation. May cause an allergic skin reaction. Hot humid weather increases the contact irritation potential of this compound.
 Symptoms/effects after eye contact : Causes serious eye irritation.
 Symptoms/effects after ingestion : May be harmful if swallowed.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects.
 Acute aquatic toxicity : Very toxic to aquatic life.
 Chronic aquatic toxicity : Very toxic to aquatic life with long lasting effects.

(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE- BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

Safety Data Sheet

(Thiophenoxy)diphenylsulfonium hexafluoroantimonate (71449-78-0)	
EC50 Daphnia 1	0.68 mg/l (Daphnia magna)
Bis(diphenylsulfonim)diphenylthioether hexafluoroantimonate (89452-37-9)	
EC50 Daphnia 1	0.68 mg/l (Daphnia magna)
Propylene carbonate (108-32-7)	
LC50 fish 1	> 1000 mg/l (Exposure time: 96 h - Species: Cyprinus carpio [semi-static])
EC50 Daphnia 1	> 500 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

No additional information available

12.3. Bioaccumulative potential

Propylene carbonate (108-32-7)	
Log Pow	0.48 (at 25 °C)

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

Other adverse effects : This substance may be hazardous to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Sewage disposal recommendations : Do not dispose of waste into sewer.
 Product/Packaging disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to licensed waste disposal facility.
 Ecology - waste materials : Avoid release to the environment.

SECTION 14: Transport information

14.1. UN number

In accordance with ADR / RID / IMDG / IATA / ADN

14.1. UN number

UN-No. (ADR) : 3082
 UN-No. (IMDG) : 3082
 UN-No. (IATA) : 3082
 UN-No. (ADN) : 3082
 UN-No. (RID) : 3082

14.2. UN proper shipping name

Proper Shipping Name (ADR) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Proper Shipping Name (IMDG) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Proper Shipping Name (IATA) : Environmentally hazardous substance, liquid, n.o.s.
 Proper Shipping Name (ADN) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Proper Shipping Name (RID) : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
 Transport document description (ADR) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE-BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate), 9, III, (-)
 Transport document description (IMDG) : UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE-BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate), 9, III, MARINE POLLUTANT
 Transport document description (IATA) : UN 3082 Environmentally hazardous substance, liquid, n.o.s. ((THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE-BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate), 9, III

(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE- BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

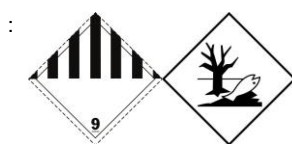
Safety Data Sheet

Transport document description (ADN)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE-BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate), 9, III
Transport document description (RID)	: UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. ((THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE-BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate), 9, III

14.3. Transport hazard class(es)

ADR

Transport hazard class(es) (ADR) : 9
 Danger labels (ADR) : 9



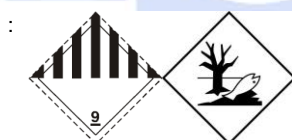
IMDG

Transport hazard class(es) (IMDG) : 9
 Danger labels (IMDG) : 9



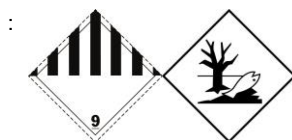
IATA

Transport hazard class(es) (IATA) : 9
 Hazard labels (IATA) : 9



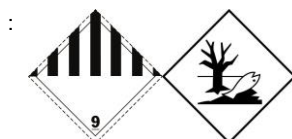
ADN

Transport hazard class(es) (ADN) : 9
 Danger labels (ADN) : 9



RID

Transport hazard class(es) (RID) : 9
 Danger labels (RID) : 9



(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE- BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

Safety Data Sheet

14.4. Packing group

Packing group (ADR)	: III
Packing group (IMDG)	: III
Packing group (IATA)	: III
Packing group (ADN)	: III
Packing group (RID)	: III

14.5. Environmental hazards

Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport

Classification code (ADR)	: M6
Special provisions (ADR)	: 274, 335, 375, 601
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, LP01, R001
Special packing provisions (ADR)	: PP1
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T4
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	:



Tunnel restriction code (ADR)	: -
EAC code	: •3Z

- Transport by sea

Special provisions (IMDG)	: 274, 335, 969
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: LP01, P001
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
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(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE- BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

Safety Data Sheet

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
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, LP01, R001
Special packing provisions (RID)	: PP1
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T4
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

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 4 July 2012 concerning the export and import of hazardous chemicals.

Substance(s) are not subject to Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC.

Contains no REACH Annex XIV substances

% Volatiles : < 3 %

15.1.2. National regulations

(THIOPHENOXYPHENYL)DIPHENYLSULFONIUM HEXAFLUOROANTIMONATE- BIS(BIS(DIPHENYLSULFONIUM)DIPHENYLTHIOETHER HEXAFLUOROANTIMONATE BLEND, 50% in propylene carbonate

Safety Data Sheet

Germany

Reference to AwSV : Water hazard class (WGK) 3, Highly hazardous to water (Classification according to AwSV, Annex 1)

12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV : Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)

Netherlands

SZW-lijst van kankerverwekkende stoffen : Propylene carbonate is listed

SZW-lijst van mutagene stoffen : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid : None of the components are listed

NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling : None of the components are listed

Denmark

Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

15.2. Chemical safety assessment

No additional information available

SECTION 16: Other information

Abbreviations and acronyms:

Abbreviations: ND: Not Determined, No Data; NA: Not Applicable; LD: Lethal Dose; LC: Lethal Concentration; ATE: Acute Toxicity Estimates; H: hour; °: °C unless otherwise stated; mm: millimeters Hg, torr; PEL: permissible exposure level; TWA: time weighted average; TLV: threshold limit value; TG: Test Guideline; NIOSH: National Institute for Occupational Safety and Health; IARC: International Agency for Research on Cancer; NTP: National Toxicology Program; HMIS: Hazardous Material Information System; CAS No.: Chemical Abstract Service Registration Number; EC No.: European Commission Registration Number; EC Index No.: European Commission Index Number; OECD: The Organisation for Economic Co-operation and Development; GHS: The Globally Harmonized System of Classification and Labelling; APF: Assigned Protection Factor

Other information : Prepared by safety and environmental affairs.

Full text of H- and EUH-statements:

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 Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Sens. 1	Skin sensitisation, Category 1
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

SDS EU (REACH Annex II) - Custom

The information contained in this document has been gathered from reference materials and/or Gelest, Inc. test data and is to the best knowledge and belief of Gelest, Inc. accurate and reliable. Such information is offered solely for your consideration, investigation and verification. It is not suggested or guaranteed that the hazard precautions or procedures described are the only ones which exist. Gelest, Inc. makes no warranties, express or implied, with respect to the use of such information and assumes no responsibility therefore. Information on this safety data sheet is not intended to constitute a basis for product specifications.

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