

**Safety Data Sheet**  
according to WHS Regulations

Printing date 24.11.2023

Version number 2

Revision: 24.11.2023

Hazardous according to criteria of Australian Safety and Compensation Council.

**1 Identification**

- **Product identifier**
- **Trade name:** OptiScint F
- **Article number:** 6013281, 6013283, 6013286
- **CAS Number:**  
38640-62-9
- **EC number:**  
254-052-6
- **Relevant identified uses of the substance or mixture and uses advised against**  
No further relevant information available.
- **Application of the substance / the mixture** Laboratory chemicals
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**  
Revvity Health Sciences B.V.  
Rigaweg 22  
9723 TH Groningen  
The Netherlands  
Phone: 0031 50 5445900  
www.revvity.com  
Australian contact address:  
Revvity  
Level 2 ,Building C, Tenancy A,  
211 Wellington Road,  
Mulgrave,  
VIC 3170  
Australia  
Phone: +613 9212 8500
- **Further information obtainable from:**  
Quality Assurance, Environment, Safety & Health (QA/ESH)  
SDS.Groningen@revvity.com
- **Emergency telephone number:**  
+31 50 5445971  
CHEMTREC (within Australia) +(61)-290372994  
CHEMTREC (from outside Australia) +1 703-527-3887

**2 Hazard(s) Identification**

- **Classification of the substance or mixture**



GHS08 health hazard

Asp. Tox. 1      H304 May be fatal if swallowed and enters airways.



GHS09 environment

Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects.

(Contd. on page 2)

**Safety Data Sheet**  
according to WHS Regulations

Printing date 24.11.2023

Version number 2

Revision: 24.11.2023

Trade name: OptiScint F

(Contd. of page 1)

- **Label elements**
- **GHS label elements**  
The substance is classified and labelled according to the Globally Harmonised System (GHS).
- **Hazard pictograms**



GHS08 GHS09

- **Signal word** Danger
- **Hazard-determining components of labelling:**  
Diisopropyl naphthalene isomers (80-100 %)
- **Hazard statements**  
H304 May be fatal if swallowed and enters airways.  
H410 Very toxic to aquatic life with long lasting effects.

- **Precautionary statements**  
P273 Avoid release to the environment.  
P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.  
P331 Do NOT induce vomiting.  
P391 Collect spillage.

- **Other hazards**
- **Results of PBT and vPvB assessment**

· <b>PBT:</b>	
38640-62-9	Diisopropyl naphthalene isomers
· <b>vPvB:</b>	
38640-62-9	Diisopropyl naphthalene isomers

**3 Composition and Information on Ingredients**

- **Chemical characterisation: Substances**
- **CAS No. Description**  
38640-62-9 Diisopropyl naphthalene isomers
- **Identification number(s)**
- **EC number:** 254-052-6

· <b>Dangerous components:</b>		
38640-62-9	Diisopropyl naphthalene isomers Asp. Tox. 1, H304 Aquatic Chronic 1, H410 PBT; vPvB	80-100%
· <b>Non-dangerous components</b>		
13280-61-0	1,4-Bis-(2-methylstyryl)-benzene (bis-MSB)	0-2.5%
92-71-7	2,5-Diphenyloxazole (PPO)	0-2.5%

**4 First Aid Measures**

- **After inhalation:** Supply fresh air; consult doctor in case of complaints.
- **After skin contact:** Generally the product does not irritate the skin.

(Contd. on page 3)

## Safety Data Sheet according to WHS Regulations

Printing date 24.11.2023

Version number 2

Revision: 24.11.2023

Trade name: OptiScint F

(Contd. of page 2)

- **After eye contact:** Rinse opened eye for several minutes under running water.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire Fighting Measures

- **Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Protective equipment:** No special measures required.

### 6 Accidental Release Measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:**  
Dilute with plenty of water.  
Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.  
See Section 13 for disposal information.

### 7 Handling and Storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about fire - and explosion protection:** No special measures required.
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** None.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls and personal protection

- **Additional information about design of technical facilities:** No further data; see section 7.
- **Ingredients with limit values that require monitoring at the workplace:** Not required.
- **Additional information:** The lists valid during the making were used as basis.
- **Personal protective equipment:**
- **General protective and hygienic measures:** Wash hands before breaks and at the end of work.
- **Respiratory protection:** Not required.

(Contd. on page 4)

-AU-

## Safety Data Sheet according to WHS Regulations

Printing date 24.11.2023

Version number 2

Revision: 24.11.2023

Trade name: OptiScint F

(Contd. of page 3)

- **Protection of hands:**



Protective gloves

EN ISO 374-1/Type B

- **Material of gloves**

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.2$  mmBreakthrough time:  $> 120$  minutes

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

- **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

- **Eye protection:**



Tightly sealed goggles

- **Body protection:** Protective work clothing

### 9 Physical and Chemical Properties

- **General Information**

- **Appearance:**

· <b>Form:</b>	Fluid
· <b>Colour:</b>	Colourless
· <b>Odour:</b>	Odourless
· <b>Odour threshold:</b>	Not determined.
· <b>pH-value:</b>	Not determined.

- **Change in condition**

· <b>Melting point/freezing point:</b>	-40 °C
· <b>Initial boiling point and boiling range:</b>	300 °C
· <b>Flash point:</b>	140 °C
· <b>Flammability (solid, gas):</b>	Not applicable.
· <b>Auto-ignition temperature:</b>	425 °C
· <b>Decomposition temperature:</b>	Not determined.
· <b>Ignition temperature:</b>	Not determined.
· <b>Explosive properties:</b>	Product does not present an explosion hazard.

- **Explosion limits:**

· <b>Lower:</b>	0.4 Vol %
· <b>Upper:</b>	4.7 Vol %
· <b>Vapour pressure at 20 °C:</b>	0.003 hPa
· <b>Density at 20 °C:</b>	0.95-0.97 g/cm <sup>3</sup>
· <b>Relative density</b>	Not determined.
· <b>Vapour density</b>	Not determined.
· <b>Evaporation rate</b>	Not determined.
· <b>Solubility in / Miscibility with</b>	
· <b>water at 20 °C:</b>	0.0002 g/l
· <b>Partition coefficient: n-octanol/water:</b>	Not determined.

(Contd. on page 5)

## Safety Data Sheet according to WHS Regulations

Printing date 24.11.2023

Version number 2

Revision: 24.11.2023

Trade name: OptiScint F

(Contd. of page 4)

- |                            |  |
|----------------------------|--|
| <b>· Viscosity:</b>        |  |
| <b>· Dynamic at 20 °C:</b> | 12 mPas                                    |
| <b>· Kinematic:</b>        | Not determined.                            |
| <b>· Other information</b> | No further relevant information available. |

### 10 Stability and Reactivity

- **Reactivity** No further relevant information available.
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:** No dangerous decomposition products known.

### 11 Toxicological Information

- **Information on toxicological effects**
- **Acute toxicity** Based on available data, the classification criteria are not met.

<b>· LD/LC50 values relevant for classification:</b>		
<b>ATE (Acute Toxicity Estimates)</b>		
Oral	LD50	4,022 mg/kg (Rat)
<b>38640-62-9 Diisopropyl naphthalene isomers</b>		
Oral	LD50	4,000 mg/kg (Rat)

- **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- **Carcinogenicity** Based on available data, the classification criteria are not met.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- **STOT-single exposure** Based on available data, the classification criteria are not met.
- **STOT-repeated exposure** Based on available data, the classification criteria are not met.
- **Aspiration hazard**  
May be fatal if swallowed and enters airways.

### 12 Ecological Information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water danger class 3 (German Regulation) (Assessment by list): extremely hazardous for water  
Do not allow product to reach ground water, water course or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into the ground.

(Contd. on page 6)

**Safety Data Sheet**  
according to WHS Regulations

Printing date 24.11.2023

Version number 2

Revision: 24.11.2023

Trade name: OptiScint F

(Contd. of page 5)

· **Results of PBT and vPvB assessment**

· **PBT:**

38640-62-9 Diisopropyl naphthalene isomers

· **vPvB:**

38640-62-9 Diisopropyl naphthalene isomers

· **Other adverse effects** No further relevant information available.

**13 Disposal considerations**

· **Waste treatment methods**

· **Recommendation**

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· **Uncleaned packaging:**

· **Recommendation:** Disposal must be made according to official regulations.

· **Recommended cleansing agents:** Water, if necessary together with cleansing agents.

**14 Transport information**

· **UN-Number**

UN3082

· **ADG, IMDG, IATA**

· **UN proper shipping name**

· **ADG**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers)

· **IMDG**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers), MARINE POLLUTANT

· **IATA**

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diisopropyl naphthalene isomers)

· **Transport hazard class(es)**

· **ADG**



· **Class**

9 (M6) Miscellaneous dangerous substances and articles.

· **Label**

9

· **IMDG, IATA**



· **Class**

9 Miscellaneous dangerous substances and articles.

· **Label**

9

(Contd. on page 7)

**Safety Data Sheet**  
according to WHS Regulations

Printing date 24.11.2023

Version number 2

Revision: 24.11.2023

Trade name: OptiScint F

(Contd. of page 6)

· <b>Packing group</b> · <b>ADG, IMDG, IATA</b>	III
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	Product contains environmentally hazardous substances: Diisopropyl naphthalene isomers Yes (DOT) Symbol (fish and tree)
· <b>Special marking (ADG):</b> · <b>Special marking (IATA):</b>	Symbol (fish and tree) Symbol (fish and tree)
· <b>Special precautions for user</b> · <b>Hazard identification number (Kemler code):</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Miscellaneous dangerous substances and articles. 90 F-A,S-F A
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADG</b> · <b>Excepted quantities (EQ)</b>	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Tunnel restriction code</b>	-
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIISOPROPYL NAPHTHALENE ISOMERS), 9, III

**15 Regulatory information**

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

· **Australian Inventory of Industrial Chemicals**

38640-62-9 Diisopropyl naphthalene isomers

92-71-7 2,5-Diphenyloxazole (PPO)

· **Standard for the Uniform Scheduling of Medicines and Poisons**

None of the ingredients is listed.

· **Australia: Priority Existing Chemicals**

None of the ingredients is listed.

· **GHS label elements**

The substance is classified and labelled according to the Globally Harmonised System (GHS).

(Contd. on page 8)

## Safety Data Sheet according to WHS Regulations

Printing date 24.11.2023

Version number 2

Revision: 24.11.2023

Trade name: OptiScint F

(Contd. of page 7)

- **Hazard pictograms**



GHS08 GHS09

- **Signal word** *Danger*

- **Hazard-determining components of labelling:**

*Diisopropyl naphthalene isomers (80-100 %)*

- **Hazard statements**

*H304 May be fatal if swallowed and enters airways.*

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

- **Precautionary statements**

*P273 Avoid release to the environment.*

*P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.*

*P331 Do NOT induce vomiting.*

*P391 Collect spillage.*

- **Directive 2012/18/EU**

- **Named dangerous substances - ANNEX I** *Substance is not listed.*

- **Seveso category E1** *Hazardous to the Aquatic Environment*

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** *100 t*

- **Qualifying quantity (tonnes) for the application of upper-tier requirements** *200 t*

- **Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*

### 16 Other information

*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*

- **Relevant phrases**

*H304 May be fatal if swallowed and enters airways.*

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

- **Department issuing SDS:** *Quality Assurance, Environment, Safety & Health (QA/ESH)*

- **Contact:** *SDS.Groningen@revvity.com*

- **Abbreviations and acronyms:**

*ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)*

*IMDG: International Maritime Code for Dangerous Goods*

*IATA: International Air Transport Association*

*EINECS: European Inventory of Existing Commercial Chemical Substances*

*ELINCS: European List of Notified Chemical Substances*

*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

*LC50: Lethal concentration, 50 percent*

*LD50: Lethal dose, 50 percent*

*PBT: Persistent, Bioaccumulative and Toxic*

*vPvB: very Persistent and very Bioaccumulative*

*Asp. Tox. 1: Aspiration hazard – Category 1*

*Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1*

- **\* Data compared to the previous version altered.**