GB

revvit

Safety data sheet

according to 1907/2006/EC, Article 31

Version number 2 (replaces version 1) Revision: 24.11.2023 Printing date 24.11.2023 SECTION 1: Identification of the substance/mixture and of the company/undertaking · 1.1 Product identifier • Trade name: OptiScint Flow · Article number: 6013791, 6013793, 6013796 · 1.2 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 · 1.3 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 · Further information obtainable from: Quality Assurance, Environment, Safety & Health (QA/ESH) SDS.Groningen@revvity.com · 1.4 Emergency telephone number: +31 50 5445971 CHEMTREC: +1 703-527-3887 **SECTION 2: Hazards identification** · 2.1 Classification of the substance or mixture · Classification according to Regulation (EC) No 1272/2008 health hazard Asp. Tox. 1 H304 May be fatal if swallowed and enters airways. corrosion Eye Dam. 1 H318 Causes serious eye damage. environment Aquatic Chronic 1 H410 Very toxic to aquatic life with long lasting effects. Skin Irrit. 2 H315 Causes skin irritation. Skin Sens. 1 H317 May cause an allergic skin reaction. · 2.2 Label elements Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the GB CLP regulation. (Contd. on page 2)



Printing date 24.11.2023

Safety data sheet according to 1907/2006/EC, Article 31

Version number 2 (replaces version 1)

Revision: 24.11.2023

Trade name: OptiScint Flow

(Contd. of page 1) · Hazard pictograms GHS07 GHS05 GHS08 GHS09 · Signal word Danger · Hazard-determining components of labelling: alcohols, C11-15-secondary, ethoxylated Diisopropyl naphthalene isomers *bis(2-ethylhexyl) hydrogen phosphate* Phosphoric acid, 2-ethylhexyl ester · Hazard statements H315 Causes skin irritation. H318 Causes serious eye damage. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects. · Precautionary statements P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P273 Avoid release to the environment. P280 Wear protective gloves / eye protection / face protection. P301+P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P331 Do NOT induce vomiting. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. · 2.3 Other hazards · Results of PBT and vPvB assessment · PBT: 38640-62-9 Diisopropyl naphthalene isomers vPvB:

38640-62-9 Diisopropyl naphthalene isomers

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:

Dungerous components.		
CAS: 38640-62-9 EINECS: 254-052-6	Diisopropyl naphthalene isomers Asp. Tox. 1, H304 Aquatic Chronic 1, H410 PBT; vPvB	40-60%
CAS: 68131-40-8 Polymer	alcohols, C11-15-secondary, ethoxylated Eye Dam. 1, H318 Aquatic Chronic 3, H412	10-20%
CAS: 68131-40-8	alcohols, C11-15-secondary, ethoxylated Aquatic Chronic 2, H411 Skin Sens. 1, H317	
		(Contd. on page 3)

GB



Printing date 24.11.2023

Version number 2 (replaces version 1)

Revision: 24.11.2023

Trade name: OptiScint Flow

		(Contd. of page 2)
CAS: 68131-40-8	alcohols, C11-15-secondary, ethoxylated	10-20%
Polymer	Aquatic Chronic 3, H412	
CAS: 78-40-0	Triethyl phosphate	2.5-10%
EINECS: 201-114-5	() Acute Tox. 4, H302; Eye Irrit. 2, H319	
Index number: 015-013	-00-7	
CAS: 298-07-7	bis(2-ethylhexyl) hydrogen phosphate	2.5-10%
EINECS: 206-056-4	📀 Skin Corr. 1B, H314	
	(1) Acute Tox. 4, H302	
CAS: 12645-31-7	Phosphoric acid, 2-ethylhexyl ester	2.5-10%
EINECS: 235-741-0	🐼 Skin Corr. 1B, H314	
· Non-dangerous compo	nents	
CAS: 92-71-7 2,.	5-Diphenyloxazole (PPO)	0-2.5%
EINECS: 202-181-3		
CAS: 7732-18-5 we	5 water, distilled, conductivity or of similar purity 0-2.5	
EINECS: 231-791-2		
CAS: 13280-61-0 1,4	4-Bis-(2-methylstyryl)-benzene (bis-MSB)	0-2.5%
EINECS: 236-285-5		
· Additional information	For the wording of the listed hazard phrases refer to section 1	6.

SECTION 4: First aid measures

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

SECTION 5: Firefighting measures

· 5.1 Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.

• 5.3 Advice for firefighters

· Protective equipment: No special measures required.

SECTION 6: Accidental release measures

· 6.1 Personal precautions, protective equipment and emergency procedures Not required.

- **6.2 Environmental precautions:** Dilute with plenty of water.
- Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:
- Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- · 6.4 Reference to other sections

See Section 7 for information on safe handling.

(Contd. on page 4)

GB



Version number 2 (replaces version 1)

Revision: 24.11.2023

Printing date 24.11.2023

Trade name: OptiScint Flow

See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling No special precautions are necessary if used correctly. • Information about fire - and explosion protection: No special measures required.
- · 7.2 Conditions for safe storage, including any incompatibilities
- · 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.
- 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

- · 8.1 Control parameters
- · Ingredients with limit values that require monitoring at the workplace:
- The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

• Additional information: The lists valid during the making were used as basis.

- · 8.2 Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures: Wash hands before breaks and at the end of work.
- · Respiratory protection: Not required.
- Hand protection



Protective gloves

EN ISO 374-1/Type B

- Material of gloves
- Nitrile rubber, NBR

Recommended thickness of the material: $\geq 0.2 \text{ mm}$

Breakthrough 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 trough time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye/face protection



Tightly sealed goggles

(Contd. of page 3)

(Contd. on page 5)

GB

revvity

Safety data sheet according to 1907/2006/EC, Article 31

Version number 2 (replaces version 1)

Revision: 24.11.2023

Printing date 24.11.2023

Trade name: OptiScint Flow

· Body protection: Protective work clothing

9.1 Information on basic physical and chemical p	properties
General Information	-
Colour:	Colourless
Odour:	Characteristic
Odour threshold:	Not determined.
Melting point/freezing point:	Undetermined.
Boiling point or initial boiling point and boiling	
range	215 °C (419 °F) (78-40-0 Triethyl phosphate)
Flammability	Not applicable.
Lower and upper explosion limit	
Lower:	0.4 Vol % (38640-62-9 Diisopropyl naphthalene
	isomers)
Upper:	4.7 Vol % (38640-62-9 Diisopropyl naphthalene
	isomers)
Flash point:	115 °C (239 °F) (78-40-0 Triethyl phosphate)
Decomposition temperature:	Not determined.
pH at 20 °C (68 °F)	<5
Viscosity:	
Kinematic viscosity	28 cSt at 20°C
Dynamic:	Not determined.
Solubility	
water:	Fully miscible.
Partition coefficient n-octanol/water (log value)	Not determined.
Vapour pressure at 20 °C (68 °F):	>0 hPa
Density and/or relative density	
Density at 20 °C (68 °F):	0.96-0.98 g/cm ³ (8.0112-8.1781 lbs/gal)
Relative density	Not determined.
Vapour density	Not determined.
9.2 Other information	
Appearance:	
Form:	Fluid
Important information on protection of health an	nd
environment, and on safety.	
Ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate	Not determined.
Information with regard to physical hazard classe	<i>2</i> S
Explosives	Void
Flammable gases	Void
Aerosols	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids	Void
Self-reactive substances and mixtures	Void
Pyrophoric liquids	Void

*

(Contd. of page 4)



Printing date 24.11.2023

Version number 2 (replaces version 1)

Revision: 24.11.2023

Trade name: OptiScint Flow

		(Contd. of page 5)
· Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamm	able	
gases in contact with water	Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
· Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- \cdot 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

· 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

• Acute toxicity Based on available data, the classification criteria are not met.

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Oral LD50 22,071 mg/kg

· Skin corrosion/irritation

Causes skin irritation.

- · Serious eye damage/irritation Causes serious eye damage.
- · Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity 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.
- 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

SECTION 12: Ecological information

· 12.1 Toxicity

- Aquatic toxicity: No further relevant information available.
- · 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.

(Contd. on page 7)

⁻ GF



Printing date 24.11.2023

Version number 2 (replaces version 1)

Revision: 24.11.2023

(Contd. of page 6)

Trade name: OptiScint Flow

· 12.4 Mobility in soil No further relevant information available.

· 12.5 Results of PBT and vPvB assessment

· PBT:

38640-62-9 Diisopropyl naphthalene isomers

· vPvB:

38640-62-9 Diisopropyl naphthalene isomers

12.6 Endocrine disrupting properties

The product does not contain substances with endocrine disrupting properties.

- 12.7 Other adverse effects
- Additional ecological information:
- · General notes:

Water danger class 3 (German Regulation) (Self-assessment): 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.

SECTION 13: Disposal considerations

- · 13.1 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.

· 14.1 UN number or ID number · ADR, IMDG, IATA	UN3082
14.2 UN proper shipping name	
ADR	3082 ENVIRONMENTALLY HAZARDOU SUBSTANCE, LIQUID, N.O.S. (Diisopropy naphthalene isomers, alcohols, C11-15-secondary ethoxylated)
· IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (Diisopropyl naphthalene isomers alcohols, C11-15-secondary, ethoxylated), MARIN POLLUTANT
· IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE LIQUID, N.O.S. (Diisopropyl naphthalene isomers alcohols, C11-15-secondary, ethoxylated)

revvity

Version number 2 (replaces version 1)

Revision: 24.11.2023

Printing date 24.11.2023 Trade name: OptiScint Flow

	(Contd. of page
14.3 Transport hazard class(es)	
ADR	
Class	9 (M6) Miscellaneous dangerous substances and
Label	articles. 9
	,
IMDG, IATA	
Class	9 Miscellaneous dangerous substances and articles.
Label	9
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Product contains environmentally hazardou
Marine pollutant:	substances: Diisopropyl naphthalene isomers Symbol (fish and tree)
Special marking (ADR):	Symbol (fish and tree)
Special marking (IATA):	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and
Handidaudification and a Wantan 1	articles.
Hazard identification number (Kemler code): EMS Number:	90 F-A,S-F
Stowage Category	A
14.7 Maritime transport in bulk according to IM	10
instruments	Not applicable.
Transport/Additional information:	
ADR	
Excepted quantities (EQ)	Code: El
	Maximum net quantity per inner packaging: 30 ml
Tunnel restriction code	Maximum net quantity per outer packaging: 1000 ml -
IMDG	
Limited quantities (LQ)	5L
Excepted quantities (EQ)	Code: E1
	Maximum net quantity per inner packaging: 30 ml
	Maximum net quantity per outer packaging: 1000 ml
	(Contd. on page



Printing date 24.11.2023

Version number 2 (replaces version 1)

Revision: 24.11.2023

(Contd. of page 8)

Trade name: OptiScint Flow

• UN "Model Regulation":

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (DIISOPROPYL NAPHTHALENE ISOMERS, ALCOHOLS, C11-15-SECONDARY, ETHOXYLATED), 9, III

SECTION 15: Regulatory information

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

· Polsons Act

· Regulated explosives precursors

None of the ingredients is listed.

· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I None of the ingredients is 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

• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 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

H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye unmage. H319 Causes serious eye irritation.

H410 Very toxic to aquatic life with long lasting effects.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful 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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

(Contd. on page 10)

GR



Safety data sheet according to 1907/2006/EC, Article 31

Version number 2 (replaces version 1)

Revision: 24.11.2023

Trade name: OptiScint Flow

Printing date 24.11.2023

(Contd. of page 9) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation – Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1: Skin sensitisation – Category 1 Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 · * Data compared to the previous version altered.