

Safety data sheet

acc. to Safe Work Australia - Code of Practice



ROTISZINT®Routine NPE free ready-to-use, for scintillation

article number: **1P1A**
Version: **GHS 1.0 en**

date of compilation: 2022-03-17

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

1.1 Product identifier

Identification of the substance **ROTISZINT®Routine NPE free ready-to-use, for scintillation**

Article number 1P1A

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

Relevant identified uses: Laboratory and analytical use
Laboratory chemical

Uses advised against: Do not use for products which come into contact with foodstuffs. Do not use for private purposes (household).

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG
Schoemperlenstr. 3-5
D-76185 Karlsruhe
Germany

Telephone:+49 (0) 721 - 56 06 0
Telefax: +49 (0) 721 - 56 06 149
e-mail: sicherheit@carlroth.de
Website: www.carlroth.de

Competent person responsible for the safety data sheet: :Department Health, Safety and Environment

e-mail (competent person): **sicherheit@carlroth.de**

1.4 Emergency telephone number

Name	Street	Postal code/city	Telephone	Website
NSW Poisons Information Centre Childrens Hospital	Hawkesbury Road	2145 Westmead, NSW	131126	

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Cat-egory	Hazard class and category	Hazard statement
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
3.7L	Effects on or via lactation	L	Lact.	H362
3.10	Aspiration hazard	1	Asp. Tox. 1	H304

For full text of abbreviations: see SECTION 16

2.2 Label elements

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Labelling

Signal word

Danger

Pictograms

GHS05, GHS08



Hazard statements

H304 May be fatal if swallowed and enters airways
H315 Causes skin irritation
H318 Causes serious eye damage
H362 May cause harm to breast-fed children

Precautionary statements

Precautionary statements - prevention

P201 Obtain special instructions before use
P260 Do not breathe dusts or mists
P263 Avoid contact during pregnancy/while nursing

Precautionary statements - response

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P302+P352 IF ON SKIN: Wash with plenty of soap and water
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
P331 Do NOT induce vomiting

Hazardous ingredients for labelling:

Bis(isopropyl)naphthalene, Phosphate Ester, Docusate sodium

2.3 Other hazards

Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Bis(isopropyl)naphthalene	CAS No 38640-62-9	50 – 80	Asp. Tox. 1 / H304		
Alcohols, C11-15, secondary, ethoxylated	CAS No 68131-40-8	20 – 40	Acute Tox. 4 / H302 Acute Tox. 4 / H332		

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Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Butyldiglycol	CAS No 112-34-5	5 – 10	Eye Irrit. 2 / H319		
Phosphate Ester	CAS No 68130-47-2	1 – 5	Skin Corr. 1 / H314 Eye Dam. 1 / H318		
Docusate sodium	CAS No 577-11-7	1 – 5	Skin Irrit. 2 / H315 Eye Dam. 1 / H318		

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Do NOT induce vomiting. Call a physician immediately. Observe aspiration hazard if vomiting occurs. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Aspiration hazard, Vomiting, Risk of blindness, Risk of serious damage to eyes, Irritation

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings
water spray, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

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Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible.

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NO_x), Carbon monoxide (CO), Carbon dioxide (CO₂), May produce toxic fumes of carbon monoxide if burning.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

6.2 Environmental precautions

Keep away from drains, surface and ground water.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Protect against: Direct light irradiation.

Incompatible substances or mixtures

Observe hints for combined storage.

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Consideration of other advice:

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 – 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This information is not available.

Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Bis(isopropyl)naphthalene	38640-62-9	DNEL	8.4 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Bis(isopropyl)naphthalene	38640-62-9	DNEL	2.38 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	DNEL	42.32 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	DNEL	6 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
Butyldiglycol	112-34-5	DNEL	67.5 mg/m ³	human, inhalatory	worker (industry)	chronic - local effects
Butyldiglycol	112-34-5	DNEL	101.2 mg/m ³	human, inhalatory	worker (industry)	acute - local effects
Docosate sodium	577-11-7	DNEL	1,889 mg/m ³	human, inhalatory	worker (industry)	chronic - systemic effects
Docosate sodium	577-11-7	DNEL	267.9 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Bis(isopropyl)naphthalene	38640-62-9	PNEC	0 mg/l	aquatic organisms	freshwater	short-term (single instance)
Bis(isopropyl)naphthalene	38640-62-9	PNEC	0 mg/l	aquatic organisms	marine water	short-term (single instance)
Bis(isopropyl)naphthalene	38640-62-9	PNEC	0.15 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Bis(isopropyl)naphthalene	38640-62-9	PNEC	0.853 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)

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Relevant PNECs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Organism	Environmental compartment	Exposure time
Bis(isopropyl)naphthalene	38640-62-9	PNEC	0.085 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Bis(isopropyl)naphthalene	38640-62-9	PNEC	0.171 mg/kg	terrestrial organisms	soil	short-term (single instance)
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	PNEC	20 µg/l	aquatic organisms	freshwater	short-term (single instance)
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	PNEC	2 µg/l	aquatic organisms	marine water	short-term (single instance)
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	PNEC	8.24 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	PNEC	28.1 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	PNEC	2.81 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	PNEC	5.6 mg/kg	terrestrial organisms	soil	short-term (single instance)
Butyldiglycol	112-34-5	PNEC	1.1 mg/l	aquatic organisms	freshwater	short-term (single instance)
Butyldiglycol	112-34-5	PNEC	0.11 mg/l	aquatic organisms	marine water	short-term (single instance)
Butyldiglycol	112-34-5	PNEC	4.4 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Butyldiglycol	112-34-5	PNEC	0.44 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Butyldiglycol	112-34-5	PNEC	0.32 mg/kg	terrestrial organisms	soil	short-term (single instance)
Docosate sodium	577-11-7	PNEC	0.18 mg/l	aquatic organisms	freshwater	short-term (single instance)
Docosate sodium	577-11-7	PNEC	0.018 mg/l	aquatic organisms	marine water	short-term (single instance)
Docosate sodium	577-11-7	PNEC	12.2 mg/l	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Docosate sodium	577-11-7	PNEC	17.79 mg/kg	aquatic organisms	freshwater sediment	short-term (single instance)
Docosate sodium	577-11-7	PNEC	1.779 mg/kg	aquatic organisms	marine sediment	short-term (single instance)
Docosate sodium	577-11-7	PNEC	1.04 mg/kg	terrestrial organisms	soil	short-term (single instance)

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8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection



Use safety goggle with side protection.

Skin protection



• hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

• type of material

NBR (Nitrile rubber)

• material thickness

0,7mm

• breakthrough times of the glove material

>480 minutes (permeation: level 6)

• other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection



Respiratory protection necessary at: Aerosol or mist formation. Type: A (against organic gases and vapours with a boiling point of > 65 °C , colour code: Brown).

Environmental exposure controls

Keep away from drains, surface and ground water.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	colourless
Odour	characteristic
Melting point/freezing point	<-30 °C at 101 kPa (data apply to the main component)
Boiling point or initial boiling point and boiling range	>290 °C
Flammability	this material is combustible, but will not ignite readily
Lower and upper explosion limit	0.7 vol% (LEL) - 5.9 vol% (UEL)
Flash point	149 °C
Auto-ignition temperature	338 °C (auto-ignition temperature (liquids and gases))
Decomposition temperature	not relevant
pH (value)	~2.8
Kinematic viscosity	not determined
<u>Solubility(ies)</u>	
Water solubility	not determined
<u>Partition coefficient</u>	
Partition coefficient n-octanol/water (log value):	this information is not available
Vapour pressure	1.422 Pa at 25 °C
<u>Density and/or relative density</u>	
Density	~1 g/cm ³ at 20 °C
Relative vapour density	information on this property is not available
Particle characteristics	not relevant (liquid)
<u>Other safety parameters</u>	
Oxidising properties	none

9.2 Other information

Information with regard to physical hazard classes:	hazard classes acc. to GHS (physical hazards): not relevant
Other safety characteristics:	There is no additional information.

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SECTION 10: Stability and reactivity

10.1 Reactivity

This material is not reactive under normal ambient conditions.

If heated

Vapours may form explosive mixtures with air.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Strong alkali

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components of the mixture			
Name of substance	CAS No	Exposure route	ATE
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	oral	≥2,000 mg/kg
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	inhalation: vapour	11 mg/l/4h
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	inhalation: dust/mist	1.06 mg/l/4h

Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Bis(isopropyl)naphthalene	38640-62-9	oral	LD50	4,130 mg/kg	rat
Bis(isopropyl)naphthalene	38640-62-9	inhalation: dust/mist	LC50	>5.64 mg/l/4h	rat
Bis(isopropyl)naphthalene	38640-62-9	dermal	LD50	>4,500 mg/kg	rat

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Acute toxicity of components of the mixture					
Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	inhalation: dust/mist	LC50	1.06 mg/l/4h	rat
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	oral	LD50	≥2,000 mg/kg	rat
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	dermal	LD50	>2,000 mg/kg	rat
Butyldiglycol	112-34-5	oral	LD50	2,410 mg/kg	mouse
Butyldiglycol	112-34-5	dermal	LD50	2,764 mg/kg	rabbit
Docusate sodium	577-11-7	oral	LD50	>3,000 mg/kg	rat
Docusate sodium	577-11-7	dermal	LD50	>10,000 mg/kg	rabbit

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

May cause harm to breast-fed children.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

May be fatal if swallowed and enters airways.

Symptoms related to the physical, chemical and toxicological characteristics

• If swallowed

aspiration hazard

• If in eyes

Causes serious eye damage, risk of blindness

• If inhaled

Data are not available.

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- **If on skin**

causes skin irritation

- **Other information**

none

11.2 Endocrine disrupting properties

None of the ingredients are listed.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Bis(isopropyl)naphthalene	38640-62-9	LC50	>0.5 mg/l	fish	96 h
Bis(isopropyl)naphthalene	38640-62-9	EC50	>0.16 mg/l	aquatic invertebrates	48 h
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	LC50	3.2 mg/l	Pimephales promelas	96 h
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	EC50	7.3 mg/l	daphnia magna	48 h
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	LL50	1.53 mg/l	fish	96 h
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	EL50	5.66 mg/l	aquatic invertebrates	48 h
Butyldiglycol	112-34-5	LC50	1,300 mg/l	fish	96 h
Butyldiglycol	112-34-5	EC50	>100 mg/l	aquatic invertebrates	48 h
Butyldiglycol	112-34-5	ErC50	>100 mg/l	algae	96 h
Docosate sodium	577-11-7	LC50	49 mg/l	fish	96 h
Docosate sodium	577-11-7	EC50	24.8 mg/l	aquatic invertebrates	24 h

Aquatic toxicity (chronic) of components of the mixture					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	EC50	824 mg/l	microorganisms	3 h

Biodegradation

Data are not available.

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12.2 Process of degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degradation rate	Time	Method	Source
Bis(isopropyl)naphthalene	38640-62-9	carbon dioxide generation	≤0.1 %	56 d		ECHA
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	biotic/abiotic	>60 %	28 d	OECD Guideline 301	
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	oxygen depletion	65 %	28 d		ECHA
Butyldiglycol	112-34-5	biotic/abiotic	58 %	d		
Butyldiglycol	112-34-5	oxygen depletion	85 %	28 d		ECHA

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components of the mixture				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Bis(isopropyl)naphthalene	38640-62-9	1,800	6.081	
Alcohols, C11-15, secondary, ethoxylated	68131-40-8	≥181 - ≤3,010	3.382	
Butyldiglycol	112-34-5		1 (pH value: 7, 20 °C)	
Docusate sodium	577-11-7		1.998 (pH value: 5, 20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Data are not available.

12.6 Endocrine disrupting properties

None of the ingredients are listed.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

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Do not empty into drains.

Waste treatment of containers/packagings

Only packagings which are approved (e.g. acc. to the Dangerous Goods Regulations) may be used.

Relevant provisions relating to waste(Basel Convention)

Properties of waste which render it hazardous

H11 Toxic (Delayed or chronic)

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions.

SECTION 14: Transport information

14.1 UN number

UN RTDG	UN 3082
IMDG-Code	UN 3082
ICAO-TI	UN 3082

14.2 UN proper shipping name

UN RTDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
IMDG-Code	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
ICAO-TI	Environmentally hazardous substance, liquid, n.o.s.
Technical name (hazardous ingredients)	Bis(isopropyl)naphthalene

14.3 Transport hazard class(es)

UN RTDG	9
IMDG-Code	9
ICAO-TI	9

14.4 Packing group

UN RTDG	III
IMDG-Code	III
ICAO-TI	III

14.5 Environmental hazards

	hazardous to the aquatic environment
Environmentally hazardous substance (aquatic environment):	Bis(isopropyl)naphthalene

14.6 Special precautions for user

There is no additional information.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

The cargo is not intended to be carried in bulk.

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14.8 Information for each of the UN Model Regulations

Transport information National regulations Additional information (UN RTDG)

UN number	3082
Class	9
Environmental hazards	Yes Hazardous to the aquatic environment
Packing group	III
Danger label(s)	9 Fish and tree



Special provisions (SP)	274, 331, 335, 375 UN RTDG
Excepted quantities (EQ)	E1 UN RTDG
Limited quantities (LQ)	5 L UN RTDG

International Maritime Dangerous Goods Code (IMDG) - Additional information

Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
Particulars in the shipper's declaration	UN3082, ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S., (contains: Bis(isopropyl)naphthalene), 9, III
Marine pollutant	yes (hazardous to the aquatic environment), (Bis(isopropyl)naphthalene)
Danger label(s)	9, "Fish and tree"



Special provisions (SP)	274, 335, 969
Excepted quantities (EQ)	E1
Limited quantities (LQ)	5 L
EmS	F-A, S-F
Stowage category	A

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name	Environmentally hazardous substance, liquid, n.o.s.
Particulars in the shipper's declaration	UN3082, Environmentally hazardous substance, liquid, n.o.s., (contains: Bis(isopropyl)naphthalene), 9, III
Environmental hazards	yes (hazardous to the aquatic environment)
Danger label(s)	9, "Fish and tree"

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Special provisions (SP)	A97, A158, A197, A215
Excepted quantities (EQ)	E1
Limited quantities (LQ)	30 kg

SECTION 15: Regulatory information

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

There is no additional information.

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AICS	not all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	not all ingredients are listed
EU	REACH Reg.	not all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	not all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

Legend

AICS	Australian Inventory of Chemical Substances
CICR	Chemical Inventory and Control Regulation
CSCL-ENCS	List of Existing and New Chemical Substances (CSCL-ENCS)
DSL	Domestic Substances List (DSL)
ECSI	EC Substance Inventory (EINECS, ELINCS, NLP)
IECSC	Inventory of Existing Chemical Substances Produced or Imported in China
INSQ	National Inventory of Chemical Substances
ISHA-ENCS	Inventory of Existing and New Chemical Substances (ISHA-ENCS)
KECI	Korea Existing Chemicals Inventory
NZIoC	New Zealand Inventory of Chemicals
PICCS	Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH Reg.	REACH registered substances
TCSI	Taiwan Chemical Substance Inventory
TSCA	Toxic Substance Control Act

15.2 Chemical Safety Assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
Acute Tox.	Acute toxicity
Asp. Tox.	Aspiration hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective Loading 50 %: the EL50 corresponds to the loading rate required to produce a response in 50% of the test organisms
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
LEL	Lower explosion limit (LEL)
LL50	Lethal Loading 50 %: the LL50 corresponds to the loading rate causing 50 % lethality
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")

Safety data sheet

acc. to Safe Work Australia - Code of Practice



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Abbr.	Descriptions of used abbreviations
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
UEL	Upper explosion limit (UEL)
UN RTDG	UN Recommendations on the Transport of Dangerous Good
vPvB	Very Persistent and very Bioaccumulative

Key literature references and sources for data

Safe Work Australia's Code of Practice for Labelling of Workplace Hazardous Chemicals (under WHS Regulations).

UN Recommendations on the Transport of Dangerous Good. International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

Classification procedure

Physical and chemical properties. The classification is based on tested mixture.

Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H362	May cause harm to breast-fed children.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.