acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

date of compilation: 2016-12-23 article number: 3074 Version: 4.0 en Revision: 2024-02-22

Replaces version of: 2024-02-22

Version: (3)



Product identifier 1.1

Identification of the substance Rotiphorese® Blue R ROTIPHORESE® concen-

trate

3074 Article number

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Uses advised against: Do not use for products which come into contact

with foodstuffs. Do not use for private purposes (household). Food, drink and animal feeding-

stuffs.

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

sheet:

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

Emergency telephone number 1.4

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

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
2.6	Flammable liquid	2	Flam. Liq. 2	H225
3.10	Acute toxicity (oral)	3	Acute Tox. 3	H301
3.1D	Acute toxicity (dermal)	3	Acute Tox. 3	H311
3.1I	Acute toxicity (inhal.)	3	Acute Tox. 3	H331

United Kingdom (en) Page 1 / 20



acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



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	2	Eye Irrit. 2	H319
3.8	Specific target organ toxicity - single exposure	1	STOT SE 1	H370

For full text of abbreviations: see SECTION 16

The most important adverse physicochemical, human health and environmental effects

Immediate effects can be expected after short-term exposure. The product is combustible and can be ignited by potential ignition sources.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS02, GHS06, GHS08



Hazard statements

H225 Highly flammable liquid and vapour

H301+H311+H331 Toxic if swallowed, in contact with skin or if inhaled

H315 Causes skin irritation

H319 Causes serious eye irritation
H370 Causes damage to organs (eye)

Precautionary statements

Precautionary statements - prevention

P210 Keep away from open flames and hot surfaces. No smoking

P280 Wear protective gloves/eye protection

Precautionary statements - response

P302+P352 IF ON SKIN: Wash with plenty of water

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor

Hazardous ingredients for labelling: Methanol

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of \geq 0,1%.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of $\geq 0.1\%$.

United Kingdom (en) Page 2 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)



article number: 3074



SECTION 3: Composition/information on ingredients

3.1 **Substances**

not relevant (mixture)

3.2 **Mixtures**

Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Methanol	CAS No 67-56-1 EC No 200-659-6 Index No 603-001-00-X	50 - < 100	Flam. Liq. 2 / H225 Acute Tox. 3 / H301 Acute Tox. 3 / H311 Acute Tox. 3 / H331 STOT SE 1 / H370		GHS-HC IOELV
Acetic acid %	CAS No 64-19-7 EC No 200-580-7 Index No 607-002-00-6	10 - < 25	Flam. Liq. 3 / H226 Skin Corr. 1A / H314 Eye Dam. 1 / H318		B(a) GHS-HC IOELV

Notes

B(a): The classification refers to an aqueous solution GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/

2008/EC, Annex VI)
IOELV: Substance with a community indicative occupational exposure limit value

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Methanol	CAS No 67-56-1 EC No 200-659-6	STOT SE 1; H370: C ≥ 10 % STOT SE 2; H371: 3 % ≤ C < 10 %	-	100 ^{mg} / _{kg} 300 ^{mg} / _{kg} >3 ^{mg} / _I /4h	oral dermal inhalation: va- pour
Acetic acid %	CAS No 64-19-7 EC No 200-580-7	Skin Corr. 1A; H314: C ≥ 90 % Skin Corr. 1B; H314: 25 % ≤ C < 90 % Skin Irrit. 2; H315: 10 % ≤ C < 25 % Eye Dam. 1; H318: C ≥ 25 % Eye Irrit. 2; H319: 10 % ≤ C < 25 %	-	-	

Remarks

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 **Description of first aid measures**



General notes

Take off immediately all contaminated clothing. Self-protection of the first aider.

United Kingdom (en) Page 3 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Following inhalation

Call a physician immediately. If breathing is irregular or stopped, administer artificial respiration.

Following skin contact

Rinse skin with water/shower. After contact with skin, wash immediately with plenty of water. In case of skin irritation, consult a physician.

Following eye contact

Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart. In case of eye irritation consult an ophthalmologist.

Following ingestion

Rinse mouth immediately and drink plenty of water. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

Vomiting, 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)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Combustible. In case of insufficient ventilation and/or in use, may form flammable/explosive vapour-air mixture. Solvent vapours are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapours may form explosive mixtures with air.

Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO_2), 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. Wear full chemical protective clothing.

United Kingdom (en) Page 4 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



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. Avoidance of ignition sources.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it.

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. Use extractor hood (laboratory). Handle and open container with care. Clear contaminated areas thoroughly.

Measures to prevent fire as well as aerosol and dust generation



Keep away from sources of ignition - No smoking.

Take precautionary measures against static discharge. Due to danger of explosion, prevent leakage

of vapours into cellars, flues and ditches.

Advice on general occupational hygiene

When using do not eat or drink. Thorough skin-cleansing after handling the product. When using do not smoke.

7.2 Conditions for safe storage, including any incompatibilities

Store in a well-ventilated place. Keep container tightly closed.

United Kingdom (en) Page 5 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Store locked up. Ground/bond container and receiving equipment.

Ventilation requirements

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted. Use local and general ventilation.

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)

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
EU	acetic acid	64-19-7	IOELV	10	25	20	50				2017/ 164/EU
EU	methanol	67-56-1	IOELV	200	260					Н	2006/15/ EC
GB	acetic acid	64-19-7	WEL	10	25	20	50				EH40/ 2005
GB	methanol	67-56-1	WEL	200	266	250	333				EH40/ 2005

Notation

Ceiling value is a limit value above which exposure should not occur Ceiling-C

Absorbed through the skin

STEL

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 TWA

hours time-weighted average (unless otherwise specified)

Relevant DNELs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time
Methanol	67-56-1	DNEL	130 mg/m ³	human, inhalat- ory	worker (industry)	chronic - systemic effects
Methanol	67-56-1	DNEL	130 mg/m ³	human, inhalat- ory	worker (industry)	acute - systemic effects
Methanol	67-56-1	DNEL	130 mg/m³	human, inhalat- ory	worker (industry)	chronic - local ef- fects
Methanol	67-56-1	DNEL	130 mg/m ³	human, inhalat- ory	worker (industry)	acute - local ef- fects

United Kingdom (en) Page 6 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Relevant DNELs of components										
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time				
Methanol	67-56-1	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects				
Methanol	67-56-1	DNEL	20 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects				

Relevant PNECs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Methanol	67-56-1	PNEC	20,8 ^{mg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Methanol	67-56-1	PNEC	2,08 ^{mg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Methanol	67-56-1	PNEC	100 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)
Methanol	67-56-1	PNEC	77 ^{mg} / _{kg}	aquatic organ- isms	freshwater sedi- ment	short-term (single instance)
Methanol	67-56-1	PNEC	7,7 ^{mg} / _{kg}	aquatic organ- isms	marine sediment	short-term (single instance)
Methanol	67-56-1	PNEC	100 ^{mg} / _{kg}	terrestrial organ- isms	soil	short-term (single instance)

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection





Use safety goggle with side protection.

Skin protection





hand protection

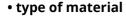
Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these 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.

United Kingdom (en) Page 7 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Butyl caoutchouc (butyl 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.

Flame-retardant protective clothing.

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.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid
Colour blue

Odour like: - alcohol - Acetic acid

Melting point/freezing point not determined

Boiling point or initial boiling point and boiling >6

range

>65 °C

Flammability flammable liquid in accordance with GHS criteria

Lower and upper explosion limit 148 g/m³ (LEL) - 430 g/m³ (UEL) /

5,5 vol% (LEL) - 44 vol% (UEL)

Flash point >10 °C

Auto-ignition temperature >455 °C

Decomposition temperature not relevant

pH (value) not determined

Kinematic viscosity not determined

Solubility(ies)

Water solubility not determined

Partition coefficient

Partition coefficient n-octanol/water (log value): this information is not available

United Kingdom (en) Page 8 / 20



acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074

ROTH

Vapour pressure 1,28 hPa

Density and/or relative density

Density $0.8 \, \mathrm{g/_{cm^3}}$

Relative vapour density Information on this property is not available.

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

Other safety characteristics: There is no additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity

The mixture contains reactive substance(s). Risk of ignition. Vapours may form explosive mixtures with air.

There is no additional information.

If heated

Risk of ignition.

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

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

United Kingdom (en) Page 9 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)



article number: 3074



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

Toxic if swallowed. Toxic in contact with skin. Toxic if inhaled.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE		
Methanol	67-56-1	oral	100 ^{mg} / _{kg}		
Methanol	67-56-1	dermal	300 ^{mg} / _{kg}		
Methanol	67-56-1	inhalation: vapour	>3 ^{mg} / _l /4h		

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
Methanol	67-56-1	inhalation: va- pour	LC50	131 ^{mg} / _l /4h	rat
Methanol	67-56-1	oral	LD50	5.628 ^{mg} / _{kg}	rat
Methanol	67-56-1	oral	LDLo	143 ^{mg} / _{kg}	human
Methanol	67-56-1	dermal	LD50	15.800 ^{mg} / _{kg}	rabbit
Acetic acid %	64-19-7	oral	LD50	3.310 ^{mg} / _{kg}	rat

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye irritation.

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

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Causes damage to organs (eye).

United Kingdom (en) Page 10 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Hazard category	Target organ	Exposure route
1	eye	if exposed

Specific target organ toxicity - repeated exposure

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

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

Data are not available.

• If in eyes

Causes serious eye irritation

• If inhaled

Data are not available.

• If on skin

causes skin irritation

Other information

none

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Aquatic toxicity (acute) of components

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
Methanol	67-56-1	LC50	15.400 ^{mg} / _l	fish	96 h
Methanol	67-56-1	ErC50	22.000 ^{mg} / _l	algae	96 h
Acetic acid %	64-19-7	LC50	>300,8 ^{mg} / _I	fish	96 h
Acetic acid %	64-19-7	EC50	>300,8 ^{mg} / _I	aquatic invertebrates	48 h
Acetic acid %	64-19-7	ErC50	>300,8 ^{mg} / _l	algae	72 h

12.2 Persistence and degradability

1,441 ^{mg}/_{ma}

United Kingdom (en) Page 11 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Degradabilit	Degradability of components					
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Methanol	67-56-1	biotic/abiotic	99 %	30 d		
Methanol	67-56-1	oxygen deple- tion	69 %	5 d		ECHA
Acetic acid %	64-19-7	biotic/abiotic	99 %	30 d		

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Methanol	67-56-1		-0,77	
Acetic acid %	64-19-7	3,16	-0,17 (pH value: 7, 25 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance at a concentration of \geq 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) at a concentration of \geq 0,1%.

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

Do not empty into drains.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

United Kingdom (en) Page 12 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Properties of waste which render it hazardous

- HP 3 flammable
- **HP 4** irritant skin irritation and eye damage
- **HP 5** specific target organ toxicity (STOT)/aspiration toxicity
- **HP 6** acute toxicity
- HP8 corrosive

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. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADRRID UN 3286
IMDG-Code UN 3286
ICAO-TI UN 3286

14.2 UN proper shipping name

ADRRID FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. IMDG-Code FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

ICAO-TI Flammable liquid, toxic, corrosive, n.o.s.

Technical name (hazardous ingredients) Methanol, Acetic acid ... %

14.3 Transport hazard class(es)

ADRRID 3 (6.1) (8)

IMDG-Code 3 (6.1) (8)

ICAO-TI 3 (6.1)

14.4 Packing group

ADRRID II
IMDG-Code II
ICAO-TI II

14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

United Kingdom (en) Page 13 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.

Particulars in the transport document UN3286, FLAMMABLE LIQUID, TOXIC, CORROS-

IVE, N.O.S., (contains: Methanol, Acetic acid ... %), 3 (6.1+8), II, (D/E)

Classification code FTC

3+6.1+8 Danger label(s)

Special provisions (SP) 274, 802(ADN)

Excepted quantities (EQ) E2 Limited quantities (LQ) 1 L Transport category (TC) 2 D/E Tunnel restriction code (TRC) Hazard identification No 368 **Emergency Action Code** 3WE

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

Classification code FTC

3+6.1+8 Danger label(s)



Special provisions (SP) 274, 802(ADN)

Excepted quantities (EQ) E2 Limited quantities (LQ) 1 L **Transport category (TC)** 2 **Hazard identification No**

International Maritime Dangerous Goods Code (IMDG) - Additional information

FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S. Proper shipping name

Particulars in the shipper's declaration UN3286, FLAMMABLE LIQUID, TOXIC, CORROS-

IVE, N.O.S., (contains: Methanol, Acetic acid ... %),

3 (6.1+8), II, >10°C c.c.

Marine pollutant

3+6.1+8 Danger label(s)





Special provisions (SP) 274 E2 Excepted quantities (EQ)

United Kingdom (en) Page 14 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074

Limited quantities (LQ) 1 L

EmS F-E, S-C

Stowage category B

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

Proper shipping name Flammable liquid, toxic, corrosive, n.o.s.

Particulars in the shipper's declaration UN3286, Flammable liquid, toxic, corrosive, n.o.s.,

(contains: Methanol, Acetic acid ... %), 3 (6.1+8), II

Danger label(s) 3+6.1+8







Excepted quantities (EQ) E2
Limited quantities (LQ) 0,5 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

2012/	2012/18/EU (Seveso III)				
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements		Notes	
22	methanol	500	5.000		

Deco-Paint Directive

VOC content	99,6 %
-------------	--------

Industrial Emissions Directive (IED)

VOC content	99,6 %
-------------	--------

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

Water Framework Directive (WFD)

United Kingdom (en) Page 15 / 20



acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



List of pollutants (WFD)	List of pollutants (WFD)				
Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks	
Methanol	Substances and preparations, or the breakdown products of such, which have been proved to pos- sess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrine- related functions in or via the aquatic environment		a)		

Legend

a) Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

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

United Kingdom (en) Page 16 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Legend AIIC CICR CSCL-ENCS Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS)

CSCL-ENCS
DSL Domestic Substances List (DSL)
ECSI ECSI EC Substance Linventory (EINECS, ELINCS, NLP)
IECSC Inventory of Existing Chemical Substances Produced or Imported in China National Inventory of Chemical Substances
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

TCSI 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

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2		Hazard statements	yes
2.2		- Precautionary statements: change in the listing (table)	yes
2.2		Precautionary statements	yes
2.2		Precautionary statements - prevention	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2		Precautionary statements - response	yes
2.2		Precautionary statements - response: change in the listing (table)	yes
14.8		Proper shipping name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.	yes
14.8		Particulars in the transport document: UN3286, FLAMMABLE LIQUID, TOXIC, CORROS- IVE, N.O.S., (contains: Methanol, Acetic acid %), 3 (6.1+8), II, (D/E)	yes
14.8		Proper shipping name: FLAMMABLE LIQUID, TOXIC, CORROSIVE, N.O.S.	yes
14.8		Particulars in the shipper's declaration: UN3286, FLAMMABLE LIQUID, TOXIC, CORROS- IVE, N.O.S., (contains: Methanol, Acetic acid %), 3 (6.1+8), II, >10°C c.c.	yes
14.8		Proper shipping name: Flammable liquid, toxic, corrosive, n.o.s.	yes
14.8		Particulars in the shipper's declaration: UN3286, Flammable liquid, toxic, corrosive, n.o.s., (contains: Methanol, Acetic acid %), 3 (6.1+8), II	yes
15.1		List of pollutants (WFD): change in the listing (table)	yes

United Kingdom (en) Page 17 / 20



acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
15.1		Regulation on substances that deplete the ozone layer (ODS): none of the ingredients are listed	yes
15.1		Regulation concerning the export and import of hazardous chemicals (PIC): none of the ingredients are listed	yes
15.1		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.	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations	
2006/15/EC	Commission Directive establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC	
2017/164/EU	Commission Directive establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU	
Acute Tox.	Acute toxicity	
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)	
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)	
Ceiling-C	Ceiling value	
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	
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)	
ED	Endocrine disruptor	
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-licence/)	
EINECS	European Inventory of Existing Commercial Chemical Substances	
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	

United Kingdom (en) Page 18 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Abbr.	Descriptions of used abbreviations	
Eye Irrit.	Irritant to the eye	
Flam. Liq.	Flammable liquid	
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	
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008	
IOELV	Indicative occupational exposure limit value	
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)	
log KOW	n-Octanol/water	
NLP	No-Longer Polymer	
PBT	Persistent, Bioaccumulative and Toxic	
PNEC	Predicted No-Effect Concentration	
ppm	Parts per million	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals	
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regulations concerning the International carriage of Dangerous goods by Rail)	
Skin Corr.	Corrosive to skin	
Skin Irrit.	Irritant to skin	
STEL	Short-term exposure limit	
STOT SE	Specific target organ toxicity - single exposure	
TWA	Time-weighted average	
UEL	Upper explosion limit (UEL)	
VOC	Volatile Organic Compounds	
vPvB	Very Persistent and very Bioaccumulative	
WEL	Workplace exposure limit	

Key literature references and sources for data

United Kingdom (en) Page 19 / 20

acc. to Regulation (EC) No. 1907/2006 (REACH)

Rotiphorese® Blue R ROTIPHORESE® concentrate

article number: 3074



Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). 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
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H370	Causes damage to organs (eye).

Disclaimer

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

United Kingdom (en) Page 20 / 20