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

#### ROTIPHORESE®Gel 40 (19:1), ready-to-use, gas-stabilised

article number: 3030 Version: 4.0 en Replaces version of: 2022-03-24 Version: (3)

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

#### **Product identifier** 1.1

Identification of the substance

Article number

# 3030

stabilised

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

Relevant identified uses:

Uses advised against:

Laboratory chemical Laboratory and analytical use

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

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#### 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 :Department Health, Safety and Environment sheet:

#### e-mail (competent person):

## sicherheit@carlroth.de

#### 1.4 **Emergency telephone number**

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
3.10	Acute toxicity (oral)	3	Acute Tox. 3	H301
3.1I	Acute toxicity (inhal.)	4	Acute Tox. 4	H332
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2	Eye Irrit. 2	H319
3.4S	Skin sensitisation	1	Skin Sens. 1	H317



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Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
3.5	Germ cell mutagenicity	1B	Muta. 1B	H340
3.6	Carcinogenicity	1B	Carc. 1B	H350
3.7	Reproductive toxicity	2	Repr. 2	H361f
3.9	Specific target organ toxicity - repeated exposure	1	STOT RE 1	H372

For full text of abbreviations: see SECTION 16

# The most important adverse physicochemical, human health and environmental effects

Delayed or immediate effects can be expected after short or long-term exposure.

## 2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS06, GHS08



#### Hazard statements

H301	Toxic if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H319	Causes serious eye irritation
H332	Harmful if inhaled
H340	May cause genetic defects
H350	May cause cancer
H361f	Suspected of damaging fertility (if swallowed)
H372	Causes damage to organs through prolonged or repeated exposure

#### **Precautionary statements**

#### **Precautionary statements - prevention**

P201	Obtain special instructions before use
P280	Wear protective gloves/protective clothing/eye protection/face protection

#### **Precautionary statements - response**

P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor
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
P308+P313	IF exposed or concerned: Get medical advice/attention

For professional users only

Hazardous ingredients for labelling:

Acrylamide, N,N'-Methylene bisacrylamide

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#### 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 sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
Acrylamide	CAS No 79-06-1 EC No 201-173-7	30 - 40	Acute Tox. 3 / H301 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Skin Irrit. 2 / H315 Eye Irrit. 2 / H319 Skin Sens. 1 / H317 Muta. 1B / H340 Carc. 1B / H350 Repr. 2 / H361f STOT RE 1 / H372		D GHS-HC IOELV
N,N'-Methylene bisac- rylamide	CAS No 110-26-9 EC No 203-750-9	1 - 2,5	Acute Tox. 3 / H301 Acute Tox. 4 / H312 Acute Tox. 4 / H332 Muta. 1B / H340 Carc. 1B / H350 Repr. 2 / H361fd STOT RE 1 / H372		

Notes

Certain substances which are susceptible to spontaneous polymerisation or decomposition are generally placed on the market in a stabilised form. It is in this form that they are listed in Part 3. However, such substances are some-times placed on the market in a non-stabilised form. In this case, the supplier must state on the label the name of the D: substance followed by the words 'non-stabilised'. 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	<b>M-Factors</b>	ATE	Exposure route
Acrylamide	CAS No 79-06-1 EC No 201-173-7	-	-	100 <sup>mg</sup> / <sub>kg</sub> 1.141 <sup>mg</sup> / <sub>kg</sub> 1,5 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: dust/ mist
N,N'-Methylene bisacrylamide	CAS No 110-26-9 EC No 203-750-9	-	-	100 <sup>mg</sup> / <sub>kg</sub> 1.141 <sup>mg</sup> / <sub>kg</sub> 3,025 <sup>mg</sup> / <sub>l</sub> /4h	oral dermal inhalation: dust/ mist

#### Substance of Very High Concern (SVHC) Name of substance Name acc. to invent-**CAS No** EC No Listed in **Remarks** ory Acrylamide acrylamide 79-06-1 201-173-7 Candidate list Carc. A57a Muta. A57b



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#### Legend

candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV list Carc. A57a Carcinogenic (article 57a) Muta. A57b Mutagenic (article 57b)

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. After contact with skin, wash immediately with plenty of water. In case of skin reactions, consult a physician. 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. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

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

Nausea, Vomiting, Irritation, Allergic reactions

# **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, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO<sub>2</sub>)

#### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

Ingredients of the mixture combustible. The product itself does not burn.

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#### Hazardous combustion products

In case of fire may be liberated: Nitrogen oxides (NOx), Carbon monoxide (CO), Carbon dioxide (CO<sub>2</sub>)

#### 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

Provide adequate ventilation as well as local exhaustion at critical locations. Use extractor hood (laboratory). Avoid exposure. When not in use, keep containers tightly closed. Clear contaminated areas thoroughly. Do not dry up the product. Measures to prevent aerosol and dust generation.

#### Advice on general occupational hygiene

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

#### 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool place.

#### Incompatible substances or mixtures

Observe hints for combined storage.

#### Protect against external exposure, such as

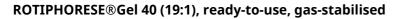
high temperatures, UV-radiation/sunlight

#### Consideration of other advice:

Store locked up.



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#### **Ventilation requirements**

Keep any substance that emits harmful vapours or gases in a place that allows these to be permanently extracted.

#### Specific designs for storage rooms or vessels

Recommended storage temperature: 2 - 8 °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	acrylamide	79-06-1	IOELV		0,1						2017/ 2398/EU
GB	acrylamide	79-06-1	WEL		0,1						EH40/ 2005

#### Notation

Ceiling-C STEL

Ceiling value is a limit value above which exposure should not occur 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 hours time-weighted average (unless otherwise specified) TWA

Relevant DNELs of components of the mixture								
Name of sub- stance	CAS No	End- point	Threshol d level	Protection goal, route of exposure	Used in	Exposure time		
Acrylamide	79-06-1	DNEL	120 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - systemic effects		
Acrylamide	79-06-1	DNEL	120 mg/m <sup>3</sup>	human, inhalat- ory	worker (industry)	acute - local ef- fects		
Acrylamide	79-06-1	DNEL	3 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects		
N,N'-Methylene bisacrylamide	110-26-9	DNEL	3 mg/kg bw/day	human, dermal	worker (industry)	acute - systemic effects		

Relevant PNECs of components of the mixture								
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time		
Acrylamide	79-06-1	PNEC	0,032 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	freshwater	short-term (single instance)		
Acrylamide	79-06-1	PNEC	2 <sup>µg</sup> /I	aquatic organ- isms	marine water	short-term (single instance)		

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Relevant PNECs of components of the mixture							
Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time	
Acrylamide	79-06-1	PNEC	0,2 <sup>mg</sup> / <sub>l</sub>	aquatic organ- isms	sewage treatment plant (STP)	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. 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 consider-able 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

>0,3 mm

#### • 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-P2 (combined filters against particles and organic gases and vapours, colour code: Brown/White).

#### **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	clear - colourless	
	Odour	characteristic	
	Melting point/freezing point	not determined	
	Boiling point or initial boiling point and boiling range	~100 °C	
	Flammability	non-combustible	
	Lower and upper explosion limit	not determined	
	Flash point	not determined	
	Auto-ignition temperature	not determined	
	Decomposition temperature	not relevant	
	pH (value)	5 – 7 (20 °C)	
	Kinematic viscosity	not determined	
	Solubility(ies)		
	Water solubility	miscible in any proportion	
	Partition coefficient		
	Partition coefficient n-octanol/water (log value):	this information is not available	
	Vapour pressure	not determined	
	Density and/or relative density		
	Density	1,03 <sup>g</sup> / <sub>cm³</sub> at 20 °C	
	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:	hazard classes acc. to GHS (physical hazards): not relevant	
	Other safety characteristics:		
	Miscibility	completely miscible with water	

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# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Unstabilized product can polymerize spontaneously.

#### If heated

Danger of polymerisation.

#### If exposed to light

Danger of polymerisation.

#### 10.2 Chemical stability

Reactivity if exposed to light. Reactivity if heated.

#### 10.3 Possibility of hazardous reactions

Violent reaction with: strong oxidiser, Peroxides, Reducing agents, Acids, Caustic solutions

#### 10.4 Conditions to avoid

UV-radiation/sunlight. Keep away from heat.

#### 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

Toxic if swallowed. Harmful if inhaled.

Acute toxicity estimate (ATE) of components of the mixture					
Name of substance	Name of substance CAS No Exposure route				
Acrylamide	79-06-1	oral	100 <sup>mg</sup> / <sub>kg</sub>		
Acrylamide 79-06-1 dermal 1.14					
Acrylamide	79-06-1	inhalation: dust/mist	1,5 <sup>mg</sup> / <sub>l</sub> /4h		
N,N'-Methylene bisacrylamide	110-26-9	oral	100 <sup>mg</sup> / <sub>kg</sub>		
N,N'-Methylene bisacrylamide	110-26-9	dermal	1.141 <sup>mg</sup> / <sub>kg</sub>		
N,N'-Methylene bisacrylamide	110-26-9	inhalation: dust/mist	3,025 <sup>mg</sup> /ı/4h		

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Acute toxicity of components of the mixture						
Name of substance	CAS No	Exposure route	Endpoint	Value	Species	
Acrylamide	79-06-1	oral	LD50	354 <sup>mg</sup> / <sub>kg</sub>	rat	
Acrylamide	79-06-1	dermal	LD50	1.141 <sup>mg</sup> / <sub>kg</sub>	rabbit	
N,N'-Methylene bisacrylamide	110-26-9	oral	LD50	390 <sup>mg</sup> / <sub>kg</sub>	rat	
N,N'-Methylene bisacrylamide	110-26-9	dermal	LD50	1.141 <sup>mg</sup> / <sub>kg</sub>	rabbit	
N,N'-Methylene bisacrylamide	110-26-9	inhalation: dust/mist	LC50	12,1 <sup>mg</sup> /ı/1h	rat	

#### Skin corrosion/irritation

Causes skin irritation.

#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### **Respiratory or skin sensitisation**

May cause an allergic skin reaction.

#### Germ cell mutagenicity

May cause genetic defects.

#### Carcinogenicity

May cause cancer.

#### Reproductive toxicity

Suspected of damaging fertility (if swallowed).

#### Specific target organ toxicity - single exposure

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

#### Specific target organ toxicity - repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Hazard category	Target organ	Exposure route
2	peripheral nervous system	if swallowed

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### Symptoms related to the physical, chemical and toxicological characteristics

#### • If swallowed

vomiting, nausea

#### • If in eyes

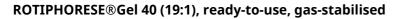
Causes serious eye irritation

#### • If inhaled

Data are not available.

• If on skin

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causes skin irritation, May produce an allergic reaction, pruritis, localised redness

#### Other information

Loss of righting reflex, and ataxia, Disorientation, Impaired memory function

- **11.2 Endocrine disrupting properties** None of the ingredients are listed.
- **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 of the mixture						
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time	
Acrylamide	79-06-1	EC50	98 <sup>mg</sup> /l	aquatic invertebrates	48 h	
N,N'-Methylene bisac- rylamide	110-26-9	LC50	835 <sup>mg</sup> /l	aquatic invertebrates	48 h	
N,N'-Methylene bisac- rylamide	110-26-9	ErC50	>100 <sup>mg</sup> / <sub>l</sub>	algae	72 h	

#### **Biodegradation**

Data are not available.

#### 12.2 Process of degradability

Degradability of components of the mixture						
Name of substance	CAS No	Process	Degrada- tion rate	Time	Method	Source
Acrylamide	79-06-1	biotic/abiotic	100 %	28 d	geschlossene Flasche	
Acrylamide	79-06-1	oxygen deple- tion	7,4 %	5 d		ECHA
N,N'-Methyl- ene bisacryl- amide	110-26-9	oxygen deple- tion	2,1 %	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	
Acrylamide	79-06-1		-0,9 (pH value: ~7, 20 °C)		
N,N'-Methylene bisacrylamide	110-26-9		-0,08 (24 °C)		



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### 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

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.

#### 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. Waste catalogue ordinance (Germany).

#### 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 or ID number

	ADRRID	UN 3426
	IMDG-Code	UN 3426
	ICAO-TI	UN 3426
14.2	UN proper shipping name	
	ADRRID	ACRYLAMIDE SOLUTION
	IMDG-Code	ACRYLAMIDE SOLUTION
	ICAO-TI	Acrylamide solution
14.3	Transport hazard class(es)	
	ADRRID	6.1
	IMDG-Code	6.1
	ICAO-TI	6.1



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14.4	Packing group	
	ADRRID	III
	IMDG-Code	III
	ICAO-TI	III
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

Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN) - Additional information				
Proper shipping name	ACRYLAMIDE SOLUTION			
Particulars in the transport document	UN3426, ACRYLAMIDE SOLUTION, 6.1, III, (E)			
Classification code	T1			
Danger label(s)	6.1			
Excepted quantities (EQ)	E1			
Limited quantities (LQ)	5 L			
Transport category (TC)	2			
Tunnel restriction code (TRC)	E			
Hazard identification No	60			
Emergency Action Code	2X			
Regulations concerning the International Carr information	iage of Dangerous Goods by Rail (RID)Additional			
Classification code	T1			
Danger label(s)	6.1			
Excepted quantities (EQ)	E1			
Limited quantities (LQ)	5 L			
Transport category (TC)	2			
Hazard identification No	60			

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International Maritime Dangerous Goods Code (IMDG) - Additional information					
Proper shipping name	ACRYLAMIDE SOLUTION				
Particulars in the shipper's declaration	UN3426, ACRYLAMIDE SOLUTION, 6.1, III				
Marine pollutant	-				
Danger label(s)	6.1				
Special provisions (SP)	223				
Excepted quantities (EQ)	E1				
Limited quantities (LQ)	5 L				
EmS	F-A, S-A				
Stowage category	A				
International Civil Aviation Organization (ICAC	-IATA/DGR) - Additional information				
Proper shipping name	Acrylamide solution				
Particulars in the shipper's declaration	UN3426, Acrylamide solution, 6.1, III				
Danger label(s)	6.1				
Special provisions (SP)	A3				
Excepted quantities (EQ)	E1				
Limited quantities (LQ)	2 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)						
Νο	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the ap- plication of lower and upper-tier re- quirements	Notes				
	not assigned						

#### **Deco-Paint Directive**

VOC content	25 – 40 % 1.118 <sup>g</sup> / <sub>l</sub>



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Industrial Emissions Directive (IED)	
VOC content	0 %
VOC content (Water content was discounted)	0 <sup>g</sup> /l

# 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)

#### List of pollutants (WFD) Name of substance **CAS No** Listed in Remarks Name acc. to inventory Substances and preparations, or N,N'-Methylene bisacrylamide a) the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrinerelated functions in or via the aquatic environment Acrylamide Substances and preparations, or a) the breakdown products of such, which have been proved to possess carcinogenic or mutagenic properties or properties which may affect steroidogenic, thyroid, reproduction or other endocrinerelated functions in or via the aquatic environment

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)

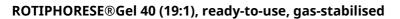
none of the ingredients are listed

#### **Regulation on persistent organic pollutants (POP)**

none of the ingredients are listed



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





article number: 3030

#### National regulations(GB)

#### List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

Substance of Very High Concern (SVHC) acc. to GB REACH and HSE			
Name of substance	CAS No	Listed in	Remarks
Acrylamide	79-06-1	Candidate list	Carc. A57a Muta. A57b

#### Legend

candidate Substances meeting the criteria referred to in Article 57 and for eventual inclusion in Annex XIV

list

Carc. A57a Carcinogenic (Article 57a) Muta. A57b Mutagenic (Article 57b)

#### **Restrictions according to GB REACH, Annex 17**

#### Dangerous substances with restrictions (GB REACH, Annex 17) **CAS No** Name of substance Name acc. to inventory No ROTIPHORESE®Gel 40 3 this product meets the criteria for classification in accordance with Regulation No 1272/2008/EC Acrylamide Acrylamide 79-06-1 60 Acrylamide 28 carcinogenic Acrylamide 29 germ cell mutagenic (mutagenic)

#### 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.	all ingredients are listed
JP	CSCL-ENCS	all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	all ingredients are listed
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed

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



## ROTIPHORESE®Gel 40 (19:1), ready-to-use, gas-stabilised

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

Alignment to regulation: Restructuring: section 9, section 14

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.2		Hazard statements: change in the listing (table)	yes
2.2		Precautionary statements - prevention: change in the listing (table)	yes
2.2	Hazardous ingredients for labelling: Acrylamide prop-2-enamide, N,N'-Methylene bisacrylamide	Hazardous ingredients for labelling: Acrylamide, N,N'-Methylene bisacrylamide	yes
2.2	Labelling of packages where the contents do not exceed 125 ml: Signal word: Danger		yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2		Labelling of packages where the contents do not exceed 125 ml: change in the listing (table)	yes
2.2	contains: Acrylamide prop-2-enamide, N,N'-Methylene bisacrylamide		yes

#### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2017/2398/EU	Directive of the European Parliament and of the Council amending Directive 2004/37/EC on the protec- tion of workers from the risks related to exposure to carcinogens or mutagens at work
Acute Tox.	Acute toxicity
ADN	Accord européen relatif au transport international des marchandises dangereuses par voies de naviga- tion intérieures (European Agreement concerning the International Carriage of Dangerous Goods by In- land Waterways)

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

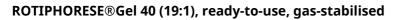
## ROTIPHORESE®Gel 40 (19:1), ready-to-use, gas-stabilised



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Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concern- ing the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
Carc.	Carcinogenicity
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 ident fier of substances commercially available within the EU (European Union)
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
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
Eye Irrit.	Irritant to the eye
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Na- tions
HSE	Health and Safety Executive
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
IOELV	Indicative occupational exposure limit value
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 9 lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during specified time interval

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





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Abbr.	Descriptions of used abbreviations
log KOW	n-Octanol/water
Muta.	Germ cell mutagenicity
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
Repr.	Reproductive toxicity
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
Skin Sens.	Skin sensitisation
STEL	Short-term exposure limit
STOT RE	Specific target organ toxicity - repeated exposure
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

#### Key literature references and sources for data

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
H301	Toxic if swallowed.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H340	May cause genetic defects.
H350	May cause cancer.

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

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#### article number: **3030**

Code	Text
H361f	Suspected of damaging fertility (if swallowed).
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child (if swallowed).
H372	Causes damage to organs through prolonged or repeated exposure.

#### Disclaimer

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