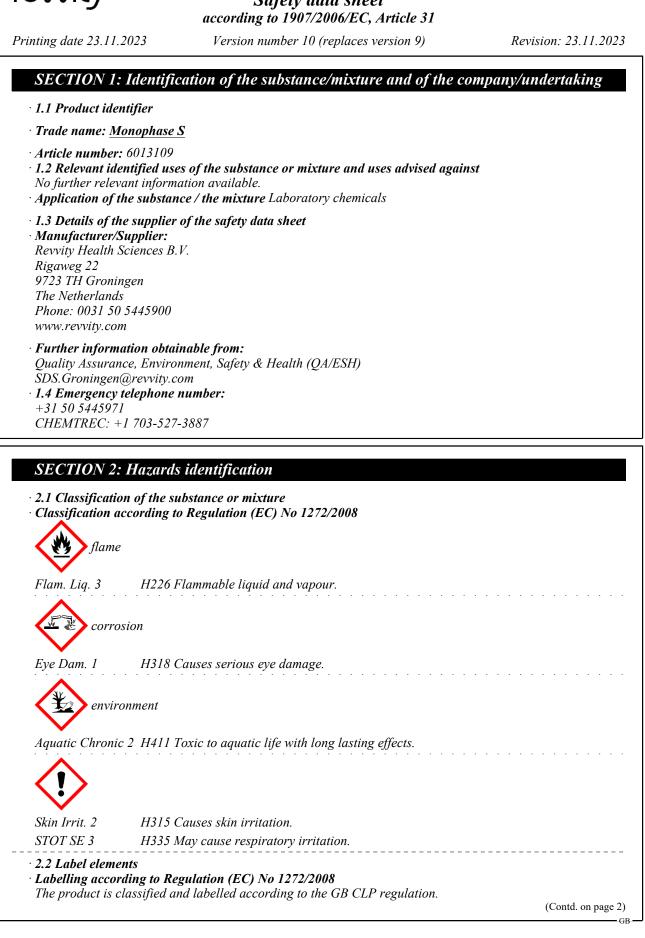
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Safety data sheet



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Printing date 23.11.2023

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

Version number 10 (replaces version 9)

Revision: 23.11.2023

Trade name: Monophase S

(Contd. of page 1) · Hazard pictograms GHS05 GHS07 GHS02 GHS09 · Signal word Danger · Hazard-determining components of labelling: Alkylphenol Polyglycolether *1,2,4-trimethylbenzene* Sodium dioctyl sulphosuccinate *Phosphoric acid, 2-ethylhexyl ester* · Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. H411 Toxic to aquatic life with long lasting effects. · Precautionary statements P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. Wear protective gloves/protective clothing/eye protection/face protection. P280 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. IF INHALED: Remove person to fresh air and keep comfortable for breathing. *P304+P340* P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. · 2.3 Other hazards · Results of PBT and vPvB assessment

• *PBT*: Not applicable.

• **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Mixtures

• Description: Mixture: consisting of the following components.

CAS: 95-63-6	1,2,4-trimethylbenzene	60-80%
EINECS: 202-436-9	🛞 Flam. Liq. 3, H226	
Index number: 601-043-00-3	3 🚯 Aquatic Chronic 2, H411	
	Acute Tox. 4, H332; Skin Irrit. 2, H315; Eye Irrit. 2, H319;	
	STOT SE 3, H335	
CAS: 9016-45-9	Alkylphenol Polyglycolether	2.5-10%
NLP: 500-024-6	<i>♦ Eye Dam. 1, H318</i>	
	Ácute Tox. 4, H302; Skin Irrit. 2, H315	
CAS: 9016-45-9	Alkylphenol Polyglycolether	2.5-10%
NLP: 500-024-6	♦ Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 577-11-7	Sodium dioctyl sulphosuccinate	2.5-10%
EINECS: 209-406-4	Eve Dam. 1, H318	
	Škin Irrit. 2, H315	



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		(Contd. of page 2
CAS: 78-40-0 EINECS: 201-114-5 Index number: 015-013-00-7	Triethyl phosphate Acute Tox. 4, H302; Eye Irrit. 2, H319	2.5-10%
CAS: 12645-31-7 EINECS: 235-741-0	Phosphoric acid, 2-ethylhexyl ester Skin Corr. 1B, H314	0-2.5%
CAS: 298-07-7 EINECS: 206-056-4	bis(2-ethylhexyl) hydrogen phosphate Skin Corr. 1B, H314 Acute Tox. 4, H302	0-2.5%
CAS: 111-42-2 EINECS: 203-868-0 Index number: 603-071-00-2	2,2'-iminodiethanol Repr. 2, H361fd; STOT RE 2, H373 Eye Dam. 1, H318 Acute Tox. 4, H302; Skin Irrit. 2, H315 Aquatic Chronic 3, H412	0-2.5%
· Non-dangerous component	s	
CAS: 7732-18-5 EINECS: 231-791-2 water,	distilled, conductivity or of similar purity	0-2.5%
CAS: 92-71-7 2,5-Dij EINECS: 202-181-3	phenyloxazole (PPO)	0-2.5%
	s-(2-methylstyryl)-benzene (bis-MSB)	0-2.5%
CAS: 13280-61-0 1,4-Bis EINECS: 236-285-5	(2 methylstyryt) benzene (bis Misb)	

SECTION 4: First aid measures

• 4.1 Description of first aid measures

• General information:

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

• After inhalation:

Supply fresh air. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

- In case of unconsciousness place patient stably in side position for transportation.
- After skin contact: Immediately wash with water and soap and rinse thoroughly.
- After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.

- *After swallowing: If symptoms persist consult doctor.*
- 4.2 Most important symptoms and effects, both acute and delayed Headache
- · 4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- · Suitable extinguishing agents:
- Foam
- Fire-extinguishing powder
- Carbon dioxide

· For safety reasons unsuitable extinguishing agents: Water with full jet

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- (Contd. of page 3) **5.2 Special hazards arising from the substance or mixture** No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.
- 6.2 Environmental precautions: Inform respective authorities in case of seepage into water course or sewage system. Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Dispose contaminated material as waste according to section 13. Ensure adequate ventilation.
- **6.4 Reference to other sections** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

• 7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

- · 7.2 Conditions for safe storage, including any incompatibilities
- · Storage:

• Requirements to be met by storerooms and receptacles: No special requirements.

- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

· 8.1 Control parameters

· Ingredients with limit values that require monitoring at the workplace:

95-63-6 1,2,4-trimethylbenzene

WEL Long-term value: 125 mg/m³, 25 ppm

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

· 8.2 Exposure controls

ILV

- Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment

• General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.

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(Contd. of page 4) · Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. · Hand protection Protective gloves EN ISO 374-1/Type B · Material of gloves Nitrile rubber, NBR Recommended thickness of the material: ≥ 0.2 mm *Breakthrough time:* > 120 *minutes* The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. · Penetration time of glove material The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye/face protection Tightly sealed goggles **SECTION 9: Physical and chemical properties**

•9.1 Information on basic physical and chemic	al properties
· General Information	
· Colour:	Colourless
· Odour:	Characteristic
• Melting point/freezing point:	-44 °C (-47.2 °F)
• Boiling point or initial boiling point and boiling	Ig
range	170 °C (338 °F)
· Lower and upper explosion limit	
· Lower:	1.1 Vol % (95-63-6 1,2,4-trimethylbenzene)
· Upper:	7.0 Vol % (95-63-6 1,2,4-trimethylbenzene)
· Flash point:	48 °C (118.4 °F)
· Auto-ignition temperature:	520 °C (968 °F)
· Solubility	
· water:	Not miscible or difficult to mix.
· Density and/or relative density	
• Density at 20 °C (68 °F):	0.93 g/cm ³ (7.76085 lbs/gal)
• 9.2 Other information	
· Appearance:	
· Form:	Fluid
 Important information on protection of health environment, and on safety. 	and
	Product is not selfigniting.
· Ignition temperature:	
• Explosive properties:	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
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		(Contd. of page
Information with regard to physical hazard	classes	
Explosives	Void	
Flammable gases	Void	
Aerosols	Void	
Oxidising gases	Void	
Gases under pressure	Void	
Flammable liquids	Flammable liquid and vapour.	
Flammable solids	Void	
Self-reactive substances and mixtures	Void	
Pyrophoric liquids	Void	
Pyrophoric solids	Void	
Self-heating substances and mixtures	Void	
Substances and mixtures, which emit flamm	able	
gases in contact with water	Void	
· Oxidising liquids	Void	
• Oxidising solids	Void	
Organic peroxides	Void	
· Corrosive to metals	Void	
· Desensitised explosives	Void	

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

· 10.2 Chemical stability

• Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.

- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: Carbon monoxide and carbon dioxide

SECTION 11: Toxicological information

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

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

· LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

 Oral
 LD50
 4,566 mg/kg

 Inhalative
 LC50/4 h
 24.8 mg/l (Rat)

95-63-6 1,2,4-trimethylbenzene

	LD50	3,400 mg/kg (Rat)
Dermal	LD50	3,160 mg/kg (Rabbit)
Inhalative	LC50/4 h	18 mg/l (Rat)

Skin corrosion/irritation

Causes skin irritation.

· Serious eye damage/irritation

Causes serious eye damage.

• Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Germ cell mutagenicity Based on available data, the classification criteria are not met.

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· Carcinogenicity Based on available data, the classification criteria are not met.

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

· STOT-single exposure

May cause respiratory irritation.

 $\cdot \textit{STOT-repeated exposure} \textit{ Based on available data, the classification criteria are not met.}$

 \cdot Aspiration hazard Based on available data, the classification criteria are not met.

 \cdot 11.2 Information on other hazards

· Endocrine disrupting properties

None of the ingredients is listed.

Aquatic to	xicity:		
95-63-6 1,	2,4-trimethylbenzen	e	
Inhalative	LC50	7.19-8.28 mg/l (Other fish)	
	EC50/48h	6.14 mg/l (Daphnia magna)	
9016-45-9	Alkylphenol Polygl	vcolether	
	chronic NOEC/ECx	>1 mg/l (Alge)	
9016-45-9	Alkylphenol Polygl	vcolether	
	chronic NOEC/ECx	>l mg/l (Alge)	
PBT: Not		assessment	

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation

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

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Trade name: Monophase S

· Uncleaned packaging:

• Recommendation: Disposal must be made according to official regulations.

14.1 UN number or ID number ADR, IMDG, IATA	1993
14.2 UN proper shipping name IMDG, IATA	FLAMMABLE LIQUID, N.O.S. (1,2,4-trimethylbenzen
14.3 Transport hazard class(es)	
ADR	
- Class	3 (F1) Flammable liquids.
Label	3
Class	3 Flammable liquids.
Label	3
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards: Marine pollutant: Special marking (ADR):	No Symbol (fish and tree)
14.6 Special precautions for user	Warning: Flammable liquids.
Hazard identification number (Kemler code): EMS Number:	30 F-E, <u>S-E</u>
14.7 Maritime transport in bulk according to IM instruments	<i>IO</i> Not applicable.
UN "Model Regulation":	UN1993, FLAMMABLE LIQUID, N.O.S., 3, III

*

SECTION 15: Regulatory information

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

· Regulated explosives precursors

None of the ingredients is listed.

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· Regulated poisons

None of the ingredients is listed.

· Reportable explosives precursors

None of the ingredients is listed.

Reportable poisons

None of the ingredients is listed.

· Directive 2012/18/EU

• Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

• Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

LIST OF SUBSTANCES SUBJECT TO AUTHORISATION (UK ANNEX XIV)

9016-45-9 Alkylphenol Polyglycolether

Sunset date: 2021-01-04

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

SECTION 16: Other information

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

· Relevant phrases

- H226 Flammable liquid and vapour.
- H302 Harmful if swallowed.
- 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.
- H335 May cause respiratory irritation.

H361fd Suspected of damaging fertility. Suspected of damaging the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

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

• Contact: SDS.Groningen@revvity.com

· Abbreviations and acronyms: ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation - Category 2 Eye Dam. 1: Serious eye damage/eye irritation - Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Repr. 2: Reproductive toxicity – Category 2 STOT SE 3: Specific target organ toxicity (single exposure) - Category 3

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STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3 • * Data compared to the previous version altered.