Version no: 3

No. 1907/2006 (REACH)

Revision 09.02.2025

Trade name: SE5 LITH A

Printing date 09.02.2025

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

1.1 Product identifier

Trade name: SE5 LITH A UFI: 4410-R0R6-K001-E973

Application of the mixture: Photographic developer

Details of the supplier of the safety data sheet Manufacturer/Supplier:

Moersch Photochemie Am Heideberg 48 50354 Hürth

Tel.: + 49(0)2233-943137 Fax: + 49(0)2233-943138

E-Mail: wolfgang@moersch-photochemie.de

www.moersch-photochemie.de

Emergency telephone number:

Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790

SECTION 2: Hazards identification

2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008

Section	Hazard Class	Category	Hazard Class and Category	Hazard Statement
3.10	Acute toxicity (oral)	4	Acute Tox. 4	H302
3.3	Serious eye damage/eye irritation		Eye Dam. 1	H318
3.45	Skin sensitsation	1	Skin Sens. 1	H317
3.5	Germ cell mutagenicity		Muta. 2	H341
3.6	Carcinogenicity	1B	Carc. 1B	H350

Seite: 1

Seite: 2

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

Hazard pictograms



GHS05, GHS07, GHS08, GHS09

Signal word: Danger

Hazard statements

H302 Harmful if swallowed

H317 May cause an allergic skin reaction.

H318 Causes serious eye demage.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H410 Very toxic to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P273 Avoid release to the environment

P280 Wear protective gloves/protective clothing/eye protection

Precautionary statements - response

P301+P313 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell

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

P333+P313 If Skin irritation or rash occurs: Get medical advice/attention

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

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

Seite: 3

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

SECTION 3: Composition/information on ingredients

Chemical characterisation: Mixture

Description: Mixture of substances below and with nonhazardous additions

Components:

Identifiers	Substance	Classification	% w/w
CAS: 111-46-6 EG-Nr: 203-872-2 EG Indexnummer: 603-140-00-6	Diethylenglycol (2,2'-Oxydiethanol)	STOT RE2, H373; Acute Tox. 4, H302	1-3 %
CAS: 123-31-9 EG-Nr: 204-617-8 EG Indexnummer: 604-005-00-4 REACH Reg.Nr.: 01-2119524016-51-xxxx	Hydrochinon (1,4-Dihydroxybenzol)	Skin Irrit. 2, H315; Eye Irrit. 2, H319; Muta. 2, H341; Carc. 2, H351; Eye Dam. 1, H318; Aquatic Acute 1, H400; Acute Tox. 4 H302; Skin Sens. 1, H317	10-15 %
CAS: 870-72-4 EG-Nr: 212-800-9	Sodium-(hydroxymethansulfonate)	not classified	1-3 %
CAS: 7647-15-6 EG-Nr: 231-599-9 REACH RegNr. 01-21-9490106-41-xxxx	Sodium bromide	not classified	1 %

SECTION 4: First aid measures

4.1 Description of first aid measures

General information: Take off contaminated clothing After skin contact: Immediately rinse with water.

After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a physician.

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

Irritation, Allergic reactions, Vomiting, Diarrhoea, Circulatory collapse, Risk of serious damage to eyes

Version no: 3

(EC) No. 1907/2006 (REACH)

Revision 09.02.2025

Seite: 4

Trade name: SE5 LITH A

Printing date 09.02.2025

4.3 Indication of any immediate medical attention and special treatment needed none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

- **5.2 Special hazards arising from the substance or mixture:** Carbon dioxide (CO2) Carbon monoxide (CO)
- **5.3 Advise 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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. Prevent formation of aerosols.

Information about fire - and explosion protection: Protect from heat.

7.2 Conditions for safe storage, including any incompatibilities

Store away from foodstuffs.

Store away from oxidising agents.

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles. Protect from heat, cold and

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

direct sunlight.

Store under lock and key and out of the reach of children.

Recommended storage temperature: 10-30 °C

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

Hydroquinone CAS No 123-31-9

Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
DNEL	2,1 mg/l	human, inhalatory	worker (industry)	chronic - systemic effects
DNEL	3,33 mg/l	human, dermal	worker (industry)	chronic - systemic effects

Relevant PNECs of components

Hydroquinone CAS No 123-31-9

Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
PNEC	0,57 mg/l	aquatic organisms	freshwater	short-term (single instance)
PNEC	0,057 mg/l	aquatic organisms	marine water	short-term (single instance)
PNEC	0,71 mg/l	aquatic organisms	sevage treatment plant (STP)	short-term (single instance)
PNEC	4,9 mg/l	aquatic organisms	freshwater sediment	short-term (single instance)
PNEC	0,49 mg/l	aquatic organisms	marine sediment	short-term (single instance)

8.2 Exposure controls Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Seite: 5

Seite: 6

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0,11 mm Break through time: 480 min (permeation: level 6)

Body Protection

protective clothing

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

General information	
Form:	fluid
Colour:	amber
Odour:	odourless
Change in condition	
Melting point:	Not determined
Melting range:	Not determined
Flash point	Not applicable
Flammability	Not applicable
Danger of explosion	Not applicable
Vapour pressure at 20° C	Not determined
Density at 20° C	1.12 g/cm ³
Solubility in/Miscibility with water	Fully miscible
pH-Value at 20° C	5.5
Solid content	20,00 %
Solvent content	
Organic solvents:	0 %
Water:	80 %
VOC (EU):	0 %

SECTION 10: Stability and reactivity

10.1 Reactivity

This mixture is not reactive under normal ambient conditions.

Version no: 3 Revision 09.02.2025 Seite: 7

Trade name: SE5 LITH A

Printing date 09.02.2025

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: none known

10.4 Conditions to avoid

UV-radiation/sunlight. Contact with air/oxygen.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

Acute toxicity

Harmful if swallowed

Hydroquinone

Exposure route	Endpoint	Value	Species	Source
oral	LD50	>375 mg/kg	rat	ECHA
dermal	LD50	>2000 mg/kg	rabbit	ECHA

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

Suspected of causing genetic defects.

Carcinogenicity

Suspected of causing cancer.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

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).

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

diarrhoea, vomiting, nausea

• If in eyes

corneal opacity, Causes serious eye damage, risk of blindness

If inhaled

Not possible - Solution

• If on skin

May produce an allergic reaction, pruritis, localised redness

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity (acute)

Endpoint	Value	Species	Source	Exposure time
LC50	0,638 mg/l	fisch	ECHA	96 h
EC50	0,134 mg/l	aquatic invertebrates	ECHA	48 h
ErC50	0,33 mg/l	algae	ECHA	72 h

Aquatic toxicity (chronic)

•	iquiditio toxiloity (oriii orii	. • /			
	Endpoint	Value	Species	Source	Exposure time
	LC50	0,061 mg/l	aquatic invertebrates	ECHA	21 d
	EC50	0,08 mg/l	aquatic invertebrates	ECHA	21 d
	NOEC	>100 µg/l	fish	ECHA	32 d
	LOEC	0,005 mg/l	aquatic invertebrates	ECHA	21 d

12.2 Persistence and degradability:

Theoretical oxygen demand: 1,889 mg/mg Theoretical carbon dioxide: 2,398 mg/mg

Biodegradation

The substance is readily biodegradable.

12.3 Bioaccumulative potential: No further relevant information available.

12.4 Mobility in soil: No further relevant information available.

Additional ecological information: Water hazard class 2 (German Regulation): hazardous for water. Do not allow product to reach ground water, water course or sewage system.

Seite: 8

Seite: 9

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

12.5 Results of PBT and vPvB assessment

Data are not available

12.6 Endocrine disrupting properties

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

This material (unused solution) 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. Avoid release to the environment.

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.

Properties of waste which render it hazardous

HP 4	irritant – skin irritation and eye demage
HP 6	acute toxicity
HP 7	carcinogenic
HP 11	mutagenic
HP 13	sensitysing
HP 14	ecotoxic

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.

When used as intended (mixture with Lith B as developer), the hydroquinone in lith developers oxidises rapidly under the influence of oxygen (in an open tray) to quinone (recognisable by dark red colouration) and can therefore the worst be classified as slightly water-hazardous.

Seite: 10

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

SECTION 14: Transport information

ADR	IMDG	IATA	ADN	RID
-----	------	------	-----	-----

14.1 UN number or ID number

UN 3077 UN 3077 UN 3077 UN 3077 UN 3077		UN 3077	UN 3077			
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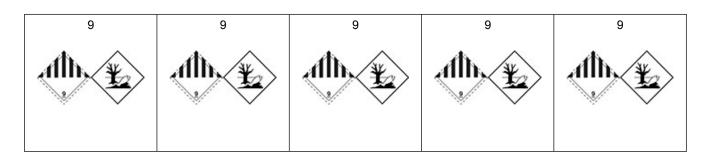
Proper shipping name

ENVIRONMENTALLY	ENVIRONMENTALLY	Environmentally hazardous substance.	ENVIRONMENTALLY	ENVIRONMENTALLY
HAZARDOUS	HAZARDOUS		HAZARDOUS	HAZARDOUS
SUBSTANCE, FLUID,	SUBSTANCE, FLUID,	liquid, n.o.s.	SUBSTANCE, FLUID,	SUBSTANCE, FLUID,
N.O.S.	N.O.S.	(HYDROQUINONE)	N.O.S.	N.O.S.
(Hydroguinone)	(Hydroguinone)		(Hydroguinone)	(Hydroquinone)
(Frydroquinono)	(Frydroquinono)		(Hydroquinono)	(Hydroquinono)

14.2 Particulars in the transport document

| UN 3077 |
|-------------------|-------------------|-------------------|-------------------|-------------------|
| ENVIRONMENTALLY | ENVIRONMENTALLY | ENVIRONMENTALLY | ENVIRONMENTALLY | ENVIRONMENTALLY |
| HAZARDOUS | HAZARDOUS | HAZARDOUS | HAZARDOUS | HAZARDOUS |
| SUBSTANCE, FLUID, |
N.O.S.	N.O.S.	N.O.S.	N.O.S.	N.O.S.
(Hydroquinone)	(Hydroquinone)	(Hydroquinone)	(Hydroquinone)	(Hydroquinone)
9, III, (-)	9, III,	9, III	9, III	9, III
	marine pollutant			

14.3 Transport hazard class(es)



14.4 Packing group

III	III	III	III	III

14.5 Environmental hazards

hazardous to the	hazardous to the	hazardous to the	hazardous to the	hazardous to the
aquatic inviroment	aquatic inviroment,	aquatic inviroment	aquatic inviroment	aquatic inviroment
	marine pollutant			



Seite: 11

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

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

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

- Additional information

Classification code (ADR) M7

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 kg

Transport category (TC) 3

Hazard identification No 90

Tunnel restriction code (TRC)

International Maritime Dangerous Goods Code (IMDG) - Additional information

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 kg

Packaging instructions LP01, P001

Special regulations for packaging PP1

IBC packing instructions IBC03

EmS. (In case of fire) F-A

EmS (in case of accidental release) S-F

Staukategorie (IMDG) Stowage category A

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

Excepted quantities (EQ) E1

Limited quantities (LQ) 30 kg



Seite: 12

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

Special provisions (SP) A97, A158, A197, A215

ERG-Code (IATA) 9L

Inland waterway transport

Classification (ADN) M7

Special provisions (SP) 274, 335, 375, 601

Excepted quantities (EQ) E1
Limited quantities (LQ) 5 kg

Transport authorised (ADN) T

Rail tronsport

Classification (RID) M7

Special provisions (RID) 274, 335, 375, 601

Limited quantities (RID) 5 kg
Excepted quantities (RID) E1

Packaging instructions (RID) P001, IBC03, LP01, R001

Special regulations for packaging (RID) PP1
Special regulations for packing together (RID) MP19
Transport category (RID) 3

Special conditions of carriage - packages (RID) W12
Hazard identification No (RID) 90

SECTION 15: Regulatory information

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

Restrictions according to REACH, Annex XVII

not listed

List of substances subject to authorisation (REACH, Annex XIV)/SVHC - candidate list not listed

Industrial Emissions Directive (IED)

VOC content 0g/I

Regulation on the marketing and use of explosives precursors

Seite: 13

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

not listed

Regulation on drug precursors

not listed

Regulation on substances that deplete the ozone layer (ODS)

not listed

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

not listed

Regulation on persistent organic pollutants (POP)

not listed

SECTION 16: Other information

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

Relevant phrases

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

H341 Suspected of causing genetic defects.

H351 Suspected of causing cancer.

H412 Harmful to aquatic life with long lasting effects.

Abbreviations and acronyms:

ADR: Accord européen sur le transport 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)

VOC: Volatile Organic Compounds (USA, EU) DNEL: Derived No-Effect Level (REACH) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2

Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2

Seite: 14

Printing date 09.02.2025 Version no: 3 Revision 09.02.2025

Trade name: SE5 LITH A

Skin Sens. 1: Sensitisation - Skin, Hazard Category 1

STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Aquatic Chronic 2: Hazardous to the aquatic environment - Chronic Hazard, Category 2

Seite: 1

Printing date 10.12.2024 Version no: 3 Revision 10.12.2024

Trade name: SE5 LITH B

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

1.1 Product identifier

Trade name: SE5 LITH B UFI: 1710-80EK-V00H-3MT5

1.2 Application of the mixture: Lith developer activator

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:

Moersch Photochemie Am Heideberg 48 50354 Hürth

Tel.: + 49(0)2233-943137 Fax: + 49(0)2233-943138

E-Mail: wolfgang@moersch-photochemie.de

www.moersch-photochemie.de

1.4 Emergency telephone number:

Poison Information Centre Berlin (Germany): +49 (0) 30 - 30686 790

SECTION 2: Hazards identification

2.1 Classification of the mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Section	Hazard Class	Category	Hazard Class and category	Hazard statement
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	2A	Eye Irrit. 2A	H319

For full text of abbreviations: see SECTION 16

2.2 Label elements

Labelling iaccording to Regulation (EC) No 1272/2008 (CLP)

Signal word Warning Pictograms

GHS07



Hazard statements

H315 Causes skin irritation

H319 Causes serious eye damage

Seite: 2

Printing date 10.12.2024 Version no: 3 Revision 10.12.2024

Trade name: SE5 LITH B

Precautionary statements – prevention

P280 Wear protective gloves

Precautionary statements - response

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

P305+P351+P338 IIF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

Precautionary statements - storage

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Precautionary statements - disposal

P501 Dispose of contents/container to industrial combustion plant.

2.3 Other hazards

Results of PBT and vPvB assessment

According to the results of its assessment, this substance is not a PBT or a vPvB.

Endocrine disrupting properties

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

SECTION 3: Composition/information on ingredients

Chemical characterisation: Mixture

Description: Mixture of substances below and with nonhazardous additions

Dangerous components:

CAS: 584-08-7	Potassium carbonate	35-40%	ı
EINECS: 209-529-3			l
Reg.nr.: 01-2119532646-36			l
			l

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 Description of first aid measures

Seite: 3

Printing date 10.12.2024 Version no: 3 Revision 10.12.2024

Trade name: SE5 LITH B

General information: Take off contaminated clothing

After skin contact: Immediately rinse with water.

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

Irritation, Gastrointestinal complaints, Diarrhoea, Abdominal pain, Nausea, Vomiting

4.3 Indication of any immediate medical attention and special treatment needed none

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing agents:

co-ordinate firefighting measures to the fire surroundings! water, foam, alcohol resistant foam, dry extinguishing powder, ABC-powder

Unsuitable extinguishing media water jet

5.2 In case of fire may be liberated:

Carbon monoxide (CO), Carbon dioxide (CO2)

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 Wear protective equipment. Keep unprotected persons away.

Ensure adequate ventilation

. 6.2 Environmental precautions:

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

. 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). 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.

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CHEMIE to 1907/2006/EC, Article 31

Trade name: SE5 LITH B

Printing date 10.12.2024

Version no: 3

Revision 10.12.2024

Seite: 4

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Provision of sufficient ventilation.

Measures to prevent fire as well as aerosol and dust generation

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

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage. Incompatible materials: see section 10.

Consideration of other advice: Ventilation requirements

Use local and general ventilation.

Specific designs for storage rooms or vessels

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

Alkali for Lith A

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

This product, as supplied, does not contain harmful substances with occupational exposure limits set by the authority responsible for the region.

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection

Use safety goggle with side protection.

Skin protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374.

Type of meterial

NBR (nitrile rubber)



ita sheet according Seite

Printing date 10.12.2024 Version no: 3 Revision 10.12.2024

Trade name: SE5 LITH B

Material thickness

>0,11 mm

Breakthrough times of the glove material

>480 minutes (permeation: level 6)

SECTION 9: Physical and chemical properties

-General information	
Form:	fluid
Colour:	yellowish
Odour:	not perceptible
Change in condition	
Melting point:	not determined
Melting range:	not determined
Flash point	not applicable
Flammability	not applicable
Danger of explosion	not applicable
Vapour pressure at 20° C	23 hPa
Density at 20° C	1.40 g/cm ³
Solubility in/Miscibility with water	fully miscible
pH-Value at 20° C	12,9
Solvent content	
Organic solvents:	0 %
Water:	>60 %
VOC (EU):	0 %

SECTION 10: Stability and reactivity

10.1 Reactivity

This mixture is not reactive under normal ambient conditions.

10.2 Chemical stability

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

Possibility of hazardous reactions

Violent reaction with: Strong oxidisers

10.4 Conditions to avoid

UV-radiation/sunlight. Keep away from heat and cold.

10.5 Incompatible materials

There is no additional information.

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

Seite: 5

Seite: 6

Printing date 10.12.2024 Version no: 3 Revision 10.12.2024

Trade name: SE5 LITH B

SECTION 11: Toxicological information

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

Classification according to GHS (1272/2008/EC, CLP)

Acute toxicity

Shall not be classified as acutely toxic.

GHS of the United Nations, annex 4. May be harmful if swallowed or in contact with skin.

Exposure route	Endpoint	Value	Species	Source
oral	LD50	>2000 mg/kg	rat	ECHA
dermal	LD50	>2000 mg/kg	rabbit	ECHA

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

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

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed:

data are not available

Seite: 7

Printing date 10.12.2024 Version no: 3 Revision 10.12.2024

Trade name: SE5 LITH B

If in eyes causes serious eye irritation

- If inhaled not possible
- If on skin causes skin irritation
- Other information none

SECTION 12: Ecological information

12.1 Toxicity

Shall not be classified as hazardous to the aquatic environment.

Endpoint	Value	Species	Source	Exposure time
LC50	68 mg/l	fish	ECHA	96 h
EC50	200 mg/l	aquatic invertebrates	ECHA	48 h

12.2 Persistence and degradability:

Theoretical Oxygen Demand: -0.1158 mg/mg Theoretical Carbon Dioxide: 0.3184 mg/mg

12.3 Bioaccumulative potential: Data are not available.

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

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

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.

Seite: 8

Printing date 10.12.2024 Version no: 3 Revision 10.12.2024

Trade name: SE5 LITH B

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.

Properties of waste which render it hazardous

HP 4 irritant - skin irritation and eye damage

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	not subject to transport regulations

14.2 UN proper shipping name not assigned

14.3 Transport hazard class(es) not assigned

14.4 Packing group not assigned

14.5 Environmental hazards non-environmentally hazardous acc. to

the dangerous goods regulations

14.06 Special precautions for userThere is no additional information.

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 or inland waterway (ADR/RID/ADN) - Additional information Not subject to ADR, RID and ADN regulations.

International Maritime Dangerous Goods Code (IMDG) - Additional information Not subject to IMDG

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information Not subject to ICAO-IATA.

Seite: 9

Printing date 10.12.2024 Version no: 3 Revision 10.12.2024

Trade name: SE5 LITH B

SECTION 15: Regulatory information

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

There is no additional information

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.

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

H315 Causes skin irritation

H319 Causes serious eye irritation

Abbreviations and acronyms

ADR: Accord europeen sur le transport des merchandises Dangereuses par Route (European

Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Reglement internationale concernent le transport des merchandises dangereuses par chemin de

fer (Regulations concerning the international Transport of Dangerous Goods by Rail)

MDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ATA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA)

ICAO: International Civil Aviation Organization

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO)

GHS: Globally Harmonized System of Classification and Labelling of Chemicals GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative