

**Trade name : Lithofin SV 2K (Curing Agent)**

Revision date : 12.08.2022

Version (Revision) : 6.0.1 (6.0.0)

Print date : 12.09.2022

**SECTION 1: Identification of the substance/mixture and of the company/ undertaking****1.1 Product identifier**

Lithofin SV 2K (Curing Agent)

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

Mixture PC 0.87 - Hardener

**Remark**

The product is intended for professional use.

**1.3 Supplier****Distributor :**

CDK Stone NZ Ltd.

Street :

2/40 Canaveral Drive

Postal code/City :

NZ Auckland 0632

Telephone :

+64 9 4750495

Telefax :

+64 9 4792424

Contact :

Technical Department

E-mail: sales@cdkstone.co.nz

Emergency telephone number:

+0800 764766

(Only available during office hours)

**Supplier :**

Lithofin AG

Street :

Heinrich-Otto-Str. 36

Postal code/City :

73240 Wendlingen

Telephone :

+49 (0)7024 9403-0

Telefax :

+49 (0)7024 9403-40

Contact :

Technical Department

E-mail: info@lithofin.de

Emergency telephone number:

+49 (0)7024 9403-0

(Only available during office hours)

**1.4 Emergency telephone number**

see section 1.3

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008 [CLP]**

Acute Tox. 4 ; H332 - Acute toxicity (inhalative) : Category 4 ; Harmful if inhaled.

Skin Sens. 1 ; H317 - Skin sensitisation : Category 1 ; May cause an allergic skin reaction.

STOT SE 3 ; H335 - STOT-single exposure : Category 3 ; May cause respiratory irritation.

Aquatic Chronic 3 ; H412 - Hazardous to the aquatic environment : Chronic 3 ; Harmful to aquatic life with long lasting effects.

**Additional information**

The mixture is classified as hazardous according to regulation (EC) No 1272/2008 [CLP].

**Remark**

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

**2.2 Label elements****Labelling according to Regulation (EC) No. 1272/2008 [CLP]**

# Safety Data Sheet

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

( NZ / D )

**Trade name :** Lithofin SV 2K (Curing Agent)

**Revision date :** 12.08.2022

**Version (Revision) :** 6.0.1 (6.0.0)

**Print date :** 12.09.2022

## Hazard pictograms



Exclamation mark (GHS07)

## Signal word

Warning

## Hazard components for labelling

Hexamethylenediisocyanate, homopolymer ; CAS No. : 28182-81-2

HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0

## Hazard statements

- H332 Harmful if inhaled.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

## Precautionary statements

- P102 Keep out of reach of children.  
P271 Use only outdoors or in a well-ventilated area.  
P280 Wear protective gloves and eye/face protection.  
P312 Call a POISON CENTER/doctor/... if you feel unwell.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P405 Store locked up.  
P501 Dispose of contents/container in accordance with local and national regulations.

## Special rules for supplemental label elements for certain mixtures

- EUH204 Contains isocyanates. May produce an allergic reaction.

## 2.3 Other hazards

None

## 2.4 Additional information

see section 12.5

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous ingredients

Hexamethylenediisocyanate, homopolymer ; REACH No. : Polymer ; EC No. : 500-060-2; CAS No. : 28182-81-2

Weight fraction :  $\geq 95 - < 100$  %

Classification 1272/2008 [CLP] : Acute Tox. 4 ; H332 Skin Sens. 1 ; H317 STOT SE 3 ; H335

HEXAMETHYLENE-DI-ISOCYANATE ; REACH No. : 01-2119457571-37-xxxx ; EC No. : 212-485-8; CAS No. : 822-06-0

Weight fraction :  $\geq 0,05 - < 0,5$  %

Classification 1272/2008 [CLP] : Acute Tox. 2 ; H330 Resp. Sens. 1 ; H334 Acute Tox. 4 ; H302 Skin Irrit. 2 ; H315 Skin Sens. 1 ; H317 Eye Irrit. 2 ; H319 STOT SE 3 ; H335

Specific Conc. Limits : Resp. Sens. 1 ; H334: C  $\geq 0,5$  % • Skin Sens. 1 ; H317: C  $\geq 0,5$  %

#### Contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH

None (below the concentration limit)

#### Contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH

None (below the concentration limit)

#### Additional information

All ingredients of this mixture are (pre)registered according to REACH regulation.

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

**Trade name : Lithofin SV 2K (Curing Agent)**

Revision date : 12.08.2022

Version (Revision) : 6.0.1 (6.0.0)

Print date : 12.09.2022

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information**

When in doubt or if symptoms are observed, get medical advice. Never give anything by mouth to an unconscious person or a person with cramps. If unconscious but breathing normally, place in recovery position and seek medical advice.

**Following inhalation**

Remove casualty to fresh air and keep warm and at rest. If breathing is irregular or stopped, administer artificial respiration. In case of respiratory tract irritation, consult a physician.

**In case of skin contact**

After contact with skin, wash immediately with plenty of water and soap. Immediately remove any contaminated clothing, shoes or stockings. Do not wash with: Cleaning agent, acidic Cleaning agent, alkaline Solvents/Thinner

**After eye contact**

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

**Following ingestion**

Call a physician immediately. Keep at rest. If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention. Do NOT induce vomiting.

**Self-protection of the first aider**

First aider: Pay attention to self-protection!

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

No information available.

**4.3 Indication of any immediate medical attention and special treatment needed****Notes for the doctor**

Treat symptomatically.

**Special treatment**

First Aid, decontamination, treatment of symptoms.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Water spray jet ABC-powder Foam

**Unsuitable extinguishing media**

Full water jet Strong water jet

**5.2 Special hazards arising from the substance or mixture****Hazardous combustion products**

Carbon monoxide Carbon dioxide (CO<sub>2</sub>) Hydrogen cyanide (hydrocyanic acid)

**5.3 Advice for firefighters**

Use suitable breathing apparatus.

**Special protective equipment for firefighters**

Wear a self-contained breathing apparatus and chemical protective clothing.

**5.4 Additional information**

Use water spray jet to protect personnel and to cool endangered containers. Do not allow run-off from fire-fighting to enter drains or water courses. Do not inhale explosion and combustion gases. The product itself does not burn. Coordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment (refer to section 8). Provide adequate ventilation. Remove persons to safety.

**Trade name : Lithofin SV 2K (Curing Agent)**

Revision date : 12.08.2022

Version (Revision) : 6.0.1 (6.0.0)

Print date : 12.09.2022

**6.2 Environmental precautions**

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

**6.3 Methods and material for containment and cleaning up****For cleaning up**

Suitable material for taking up: Universal binder

Clean contaminated articles and floor according to the environmental legislation. Retain contaminated washing water and dispose it. Dispose of waste according to applicable legislation.

**6.4 Reference to other sections**

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

When using do not eat, drink, smoke, sniff.

**Protective measures**

All work processes must always be designed so that the following is excluded: Inhalation of vapours or spray/mists  
Skin contact Eye contact Wear personal protection equipment (refer to section 8). Always close containers tightly after the removal of product. Do not breathe gas/fumes/vapour/spray. Use only in well-ventilated areas. If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means. Technical measures and the application of suitable work processes have priority over personal protection equipment.

**Measures to prevent fire**

The product is not: Flammable Usual measures for fire prevention.

**Fire class :** B

**Shake well before use** No

**Advices on general occupational hygiene**

P362+P364 - Take off contaminated clothing and wash it before reuse.

**7.2 Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Keep container tightly closed. Keep/Store only in original container. The floor should be leak tight, jointless and not absorbent. Ensure adequate ventilation of the storage area.

**Hints on joint storage**

**Storage class (TRGS 510) :** 10

**Recommended storage temperature** 5 - 25 °C

**Protect from frost** No

**Further information on storage conditions**

Keep locked up and out of reach of children. Keep container tightly closed in a cool, well-ventilated place.

**7.3 Specific end use(s)****Recommendation**

Observe technical data sheet. Observe instructions for use.

**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Occupational exposure limit values**

HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0

Limit value type (country of origin) : BAT ( CH )

Parameter : Hexamethylenediamine (after hydrolysis) / Urine (U) / End of exposure or end of shift

Limit value : 15 µg/g Creatinine

Version :

Limit value type (country of origin) : TRGS 900 ( D )

**Trade name : Lithofin SV 2K (Curing Agent)**

Revision date : 12.08.2022

Version (Revision) :

6.0.1 (6.0.0)

Print date : 12.09.2022

Limit value : 0,005 ppm / 0,035 mg/m<sup>3</sup>  
Peak limitation : 1/=2=(I)  
Remark : Sa  
Version : 02.07.2021  
Limit value type (country of origin) : TRGS 903 ( D )  
Parameter : Hexamethylenediamine (after hydrolysis) / Urine (U) / End of exposure or end of shift  
Limit value : 0,15 mg/g Creatinine  
Version : 04.05.2021

**DNEL-/PNEC-values****DNEL/DMEL**

Hexamethylenediisocyanate, homopolymer ; CAS No. : 28182-81-2

Limit value type : DNEL worker (local)

Exposure route : Dermal

Exposure frequency : Short-term

Limit value : 1 mg/m<sup>3</sup>

Limit value type : DNEL worker (local)

Exposure route : Dermal

Exposure frequency : Long-term

Limit value : 0,5 mg/m<sup>3</sup>

HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0

Limit value type : DNEL worker (local)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 0,035 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Short-term

Limit value : 0,07 mg/m<sup>3</sup>

Limit value type : DNEL worker (systemic)

Exposure route : Inhalation

Exposure frequency : Long-term

Limit value : 0,035 mg/m<sup>3</sup>**PNEC**

Hexamethylenediisocyanate, homopolymer ; CAS No. : 28182-81-2

Limit value type : PNEC (Aquatic, freshwater)

Limit value : 0,199 mg/l

Limit value type : PNEC (Aquatic, marine water)

Limit value : 0,0199 mg/l

Limit value type : PNEC (Sediment, freshwater)

Limit value : 44551 mg/kg

Limit value type : PNEC (Sediment, marine water)

Limit value : 4455 mg/kg

Limit value type : PNEC (Sewage treatment plant)

Limit value : 100 mg/l

HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0

Limit value type : PNEC (Aquatic, freshwater)

Limit value : &gt; 0,0774 mg/l

Limit value type : PNEC (Aquatic, marine water)

Limit value : &gt; 0,00774 mg/l

Limit value type : PNEC (Sediment, freshwater)

Limit value : &gt; 0,01334 mg/kg

Limit value type : PNEC (Sediment, marine water)

Limit value : &gt; 0,00133 mg/kg

Limit value type : PNEC (Sewage treatment plant)

Limit value : 8,42 mg/l

**8.2 Exposure controls**

# Safety Data Sheet

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

( NZ / D )

**Trade name :** Lithofin SV 2K (Curing Agent)

**Revision date :** 12.08.2022

**Version (Revision) :** 6.0.1 (6.0.0)

**Print date :** 12.09.2022

## Appropriate engineering controls

Ensure adequate ventilation of the storage area.  
Technical measures and the application of suitable work processes have priority over personal protection equipment.

## Personal protection equipment

### Eye/face protection

#### Suitable eye protection

Eye glasses with side protection goggles

#### Required properties

EN 166

## Skin protection

### Hand protection

**Suitable gloves type :** Gloves with long cuffs

**Suitable material :** Data apply to the main component. Butyl caoutchouc, 0,5mm, >8h; FKM (fluoro rubber), 0,7mm, >8h;

**Recommended glove articles :** Manufacturer KCL GmbH/Eichenzell-Germany; Ansell/Yarra City-Australia Or comparable articles from other companies.

**Additional hand protection measures :** Check leak tightness/impermeability prior to use.

**Remark :** Breakthrough times and swelling properties of the material must be taken into consideration. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. 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. Barrier creams are not substitutes for body protection.

### Body protection

Protective clothing.

**Suitable protective clothing :** Chemical protection clothing Chemical resistant safety shoes

**Required properties :** alkali-resistant.

Protective clothing. : EN 13034 EN 14605

Chemical resistant safety shoes : EN ISO 20345

**Remark :** Barrier creams are not substitutes for body protection.

## Respiratory protection

Usually no personal respirative protection necessary. Respiratory protection necessary at: insufficient ventilation aerosol or mist formation. high concentrations spray application

### Suitable respiratory protection apparatus

Combination filtering device Half-face mask ABEK-P1

### Remark

Use only respiratory protection equipment with CE-symbol including four digit test number. Observe the wear time limits according GefStoffV in combination with the rules for using respiratory protection apparatus (BGR 190).

## General information

Minimum standard for preventive measures while handling with working materials are specified in the TRGS 500. When using do not eat, drink, smoke, sniff. Avoid contact with skin, eyes and clothes. Remove contaminated, saturated clothing immediately. Wash contaminated clothing prior to re-use. Wash hands before breaks and after work. Apply skin care products after work. Do not breathe gas/fumes/vapour/spray.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Appearance :** viscous

**Colour :** light yellow

**Odour :** odourless

### Safety characteristics

**Melting point/freezing point :** ( 1013 hPa ) < -13 °C

**Initial boiling point and boiling range :** ( 1013 hPa ) > 250 °C

**Decomposition temperature :** ( 1013 hPa ) not determined

# Safety Data Sheet

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

( NZ / D )

## Trade name : Lithofin SV 2K (Curing Agent)

Revision date : 12.08.2022

Version (Revision) : 6.0.1 (6.0.0)

Print date : 12.09.2022

Flash point :	>	190	°C	closed cup (EN ISO 3679)
Auto-ignition temperature :		not determined		
Sustaining combustion		No		UN Test L2:Sustained combustibility test
Lower explosion limit :		not determined		
Upper explosion limit :		not determined		
Vapour pressure :	( 50 °C )	<	3000	hPa
Density :	( 20 °C )		1,15	g/cm <sup>3</sup>
Solvent separation test :	( 20 °C )	<	3	%
Water solubility	( 20 °C )		hydrolysed	Pyknometer (DIN EN ISO 2811-1)
pH :			not applicable	DIN 19268
log P O/W :			not determined	(Mixture)
Flow time :	( 23 °C )	approx.	500	s
Odour threshold :			not determined	ISO cup 4 mm (DIN EN ISO 2431)
Vapourisation rate :			not determined	
VOC content-EC			0	Weight-% *
VOC-France			not applicable	Décret no 2011-321 du 23 mars 2011

(\* VOC-EC = „Volatile organic compound (VOC)“ means any organic compound having an initial boiling point less than or equal to 250°C measured at a standard pressure of 101,3 kPa; VOC-value in g/L)

### 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.

### 10.3 Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

### 10.4 Conditions to avoid

Stable under recommended storage and handling conditions.

### 10.5 Incompatible materials

The product develops hydrogen in an aqueous solution in contact with metals.

### 10.6 Hazardous decomposition products

Does not decompose when used for intended uses.

## SECTION 11: Toxicological information

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

#### Acute toxicity

Harmful by inhalation.

#### Acute oral toxicity

Parameter : LD50  
Exposure route : Oral  
Species : Rat  
Effective dose : > 2000 mg/kg

#### Acute dermal toxicity

Parameter : LD50 ( Hexamethylenediisocyanate, homopolymer ; CAS No. : 28182-81-2 )

**Trade name : Lithofin SV 2K (Curing Agent)**

Revision date : 12.08.2022

Version (Revision) : 6.0.1 (6.0.0)

Print date : 12.09.2022

Exposure route : Dermal  
Species : Rat  
Effective dose : > 2000  
Method : OECD 402  
Parameter : LD50 ( HEXAMETHYLENE-DI-ISOCYANATE ; CAS No. : 822-06-0 )  
Exposure route : Dermal  
Species : Rat  
Effective dose : > 7000 mg/kg  
Method : OECD 402

**Acute inhalation toxicity**

Parameter : LC50  
Exposure route : Inhalation  
Species : Rat  
Effective dose : 390 mg/m<sup>3</sup>  
Exposure time : 4 h  
Method : OECD 403

**Specific effects (Longterm animal experiment)**

There are no data available on the preparation/mixture itself.

**Corrosion**

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

**Respiratory or skin sensitisation**

May cause an allergic skin reaction.

**Repeated dose toxicity (subacute, subchronic, chronic)**

There are no data available on the preparation/mixture itself.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

**Carcinogenicity**

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

**Germ cell mutagenicity**

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.

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**11.2 Information on other hazards**

No information available.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

Harmful to aquatic life with long lasting effects.

**Acute (short-term) fish toxicity**

Parameter : LC50  
Species : Acute (short-term) fish toxicity  
Evaluation parameter : Acute (short-term) fish toxicity  
Effective dose : 28,3 mg/l  
Exposure time : 96 h  
Method : OECD 203

**Acute (short-term) toxicity to crustacea**



**Trade name : Lithofin SV 2K (Curing Agent)**

Revision date : 12.08.2022

Version (Revision) : 6.0.1 (6.0.0)

Print date : 12.09.2022

Parameter : EC50  
Species : Acute (short-term) toxicity to crustacea  
Evaluation parameter : Acute (short-term) toxicity to crustacea  
Effective dose : > 100 mg/l  
Exposure time : 48 h  
Method : OECD 202

**Acute (short-term) toxicity to algae and cyanobacteria**

Parameter : IC50  
Species : Acute (short-term) toxicity to algae and cyanobacteria  
Evaluation parameter : Acute (short-term) toxicity to algae and cyanobacteria  
Effective dose : > 100 mg/l  
Exposure time : 72 h  
Method : OECD 201

**Sewage treatment plant**

Observe local regulations concerning effluent treatment. Before discharge into sewage plants the product normally needs to be neutralised.

**12.2 Persistence and degradability**

There are no data available on the preparation/mixture itself.

**Biodegradation**

There are no data available on the preparation/mixture itself.

**12.3 Bioaccumulative potential**

There are no data available on the preparation/mixture itself.

**12.4 Mobility in soil**

There are no data available on the preparation/mixture itself.

**12.5 Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

**12.6 Endocrine disrupting properties**

No information available.

**12.7 Other adverse effects**

There are no data available on the preparation/mixture itself.

**12.8 Additional ecotoxicological information****Additional information**

The product has not been tested.

**SECTION 13: Disposal considerations****13.1 Waste treatment methods**

Dispose of waste according to applicable legislation.

Waste disposal according to directive 2008/98/EC, covering waste and dangerous waste.

**Directive 2008/98/EC (Waste Framework Directive)****Before intended use****Waste codes/waste designations according to EWC/AVV**

Waste code (EWC/AVV) : 08 05 01\* (Waste isocyanates)

**After intended use**

Do not allow to enter into surface water or drains. Non-contaminated packages may be recycled. Packing which cannot be properly cleaned must be disposed of. Delivery to an approved waste disposal company.

**Disposal operations**

Contaminated packages must be completely emptied and can be re-used following proper cleaning. Packing which cannot be properly cleaned must be disposed of.

**Waste codes/waste designations according to EWC/AVV**

Waste code packaging: 15 01 10\*

**13.2 Additional information**

These codes are assigned based upon the most common uses for this material and may not reflect contaminants

**Safety Data Sheet**  
**according to Regulation (EC) No. 1907/2006 (REACH)**

( NZ / D )

**Trade name :** Lithofin SV 2K (Curing Agent)

**Revision date :** 12.08.2022

**Version (Revision) :** 6.0.1 (6.0.0)

**Print date :** 12.09.2022

resulting from actual use.

#### SECTION 14: Transport information

##### 14.1 UN number

No dangerous good in sense of these transport regulations.

##### 14.2 UN proper shipping name

No dangerous good in sense of these transport regulations.

##### 14.3 Transport hazard class(es)

No dangerous good in sense of these transport regulations.

##### 14.4 Packing group

No dangerous good in sense of these transport regulations.

##### 14.5 Environmental hazards

No dangerous good in sense of these transport regulations.

##### 14.6 Special precautions for user

None

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

Not required.

#### SECTION 15: Regulatory information

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

###### EU legislation

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on classification, labelling and packaging of substances and mixtures (clp)

DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on waste (2000/532/EC) EN 2:1992 (DIN EN 2:2005-01)

###### Authorisations and/or restrictions on use

###### Restrictions on use

Use restriction according to REACH annex XVII, no. : 3, 74, 75

###### Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).  
Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

###### Other regulations (EU)

Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work. (Directive 2000/39/EC, Directive 2006/15/EC, Directive 2009/161/EC)

REGULATION (EU) No 649/2012 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL concerning the export and import of hazardous chemicals [PIC-Regulation]: Not listed/not relevant.

REGULATION (EU) No 2019/1148 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL on the marketing and use of explosives precursors: Not listed/not relevant.

###### Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer

Not listed/not relevant.

Contains the following substances that deplete the ozone layer: -

###### Regulation (EC) 2019/1021 [POP Regulation]

Not listed/not relevant.

Name of the persistent organic pollutant (POP): -

###### National regulations

Observe in addition any national regulations!

Germany:

TRGS 400 (Risk assessment for activities involving hazardous substances)

TRGS 500 (Protective measures)

**Trade name : Lithofin SV 2K (Curing Agent)**

Revision date : 12.08.2022

Version (Revision) : 6.0.1 (6.0.0)

Print date : 12.09.2022

TRGS 510 (Storage of hazardous substances in non-stationary containers)

TRGS 555 (Working instruction and information for workers)

**Water hazard class**

Classification according to AwSV - Class : 1 (Slightly hazardous to water)

**Other regulations, restrictions and prohibition regulations****Switzerland****VOCV-Regulation**

Maximum VOC content (Switzerland) : 0 Weight-% according to VOCV

**Austria****Regulation on Flammable Liquids - VbF**

VbF-Class : NU

**15.2 Chemical Safety Assessment**

For this substance/mixture a chemical safety assessment has not been carried out.

**15.3 Additional information**

HSNO Approval: HSR002670 Surface Coatings and Colourants (Subsidiary Hazard) Group Standard 2017

Hexamethylenediisocyanate homopolymer/Hexamethylene diisocyanate polymer

CAS No.: 28182-81-2

Is found on the following regulatory lists:

New Zealand Inventory of Chemicals (NZIoC)

Hexamethylene Diisocyanate/Hexane, 1,6-diisocyanato-

CAS No.: 822-06-0

Is found on the following regulatory lists:

New Zealand Inventory of Chemicals (NZIoC)

New Zealand Workplace Exposure Standards (WES): TWA: - ppm / 0,02 mg/m<sup>3</sup>; STEL: - ppm / 0,07 mg/m<sup>3</sup>-**SECTION 16: Other information****16.1 Indication of changes**

07. Hints on joint storage - Storage class

**16.2 Abbreviations and acronyms**

ABC-Pulver	Extinguishing powder for fire class A, B and C
ABEK-P1	combination filter
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AVV	Abfallverzeichnis-Verordnung (Waste Regulation)
AWSV	Ordinance on facilities for the handling of substances hazardous to water
BGR	BG rules and regulations
ca.	circa
CAS	Chemical Abstracts Service
CLP	classification, labelling and packaging
CMR	Carcinogen, mutagen or toxic for reproduction
DIN	German Institute for Standardization
DNEL	Derived No-Effect Level
EAK/EWC/EAC/CWR/CER	European Waste Catalogue
EC50 / CE50	Effective Concentration 50%
EG / EC / CE	European Community
EN	European Standard
EUH	supplemental hazard statement of the european union
GefStoffV	Gefahrstoffverordnung (Hazardous Substances Ordinance)
GHS / SGH	Globally Harmonised System
H-Sätze	hazard statements

# Safety Data Sheet

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

( NZ / D )

## Trade name : Lithofin SV 2K (Curing Agent)

Revision date : 12.08.2022

Version (Revision) : 6.0.1 (6.0.0)

Print date : 12.09.2022

---

IATA-DGR	International Air Transport Association-Dangerous Goods Regulations
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
ICAO-TI	International Civil Aviation Organization-Technical Instructions
IMDG-Code	International Maritime Dangerous Goods Code
ISO	International Organization for Standardization
LC50 / CL50	Lethal Concentration 50%
LD50 / DL50	Lethal Dose 50%
log P O/W	Partition coefficient n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (marine pollution)
NOAEL (DSET)	No observed adverse effect level
NOEC (CSEO)	No observed effect concentration
Nr.	Number
OECD	Organisation for Economic Co-operation and Development
PBT	persistent, bioaccumulative and toxic
pH	Potentia hydrogenii
PIC	prior informed consent
PNEC	Predicted No-Effect Concentration
POP	Persistent organic pollutants
P-Sätze	precautionary statements
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	International Carriage of Dangerous Goods by Rail
STEL / LECT	short-term exposure limit
TRGS	Technische Regeln für Gefahrstoffe (Technical Rules for Hazardous Substances)
TWA / MPT	time-weighted average
UN/ONU	United Nations
VOC/COV/VOS/LZO	Volatile Organic Compound
VOCV	Ordinance on the Incentive Tax on Volatile Organic Compounds (SR 814.018)
vPvB	very persistent and very bioaccumulative
WGK	Wassergefährdungsklasse (Water hazard class)

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>. For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

### 16.3 Key literature references and sources for data

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL  
ECHA: Registered substances (<https://echa.europa.eu/information-on-chemicals/registered-substances>)  
REACH Article 59: Candidate List of substances of very high concern for Authorisation (<https://echa.europa.eu/candidate-list-table>)

### 16.4 Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

Hazard statements for physical hazards : On basis of test data.  
Hazard statements for health hazards : Calculation method.  
Hazard statements for environmental hazards : Calculation method.

### 16.5 Relevant H- and EUH-phrases (Number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.

# Safety Data Sheet

( NZ / D )

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

**Trade name :** Lithofin SV 2K (Curing Agent)

**Revision date :** 12.08.2022

**Version (Revision) :** 6.0.1 (6.0.0)

**Print date :** 12.09.2022

---

H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.

## 16.6 Training advice

None

## 16.7 Additional information

None

---

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

---