

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

MOVIO

CHEMISTRY WORK

N

# CONCRETE RESIDUE REMOVER

Version number: GHS 6.0
Replaces version of: 2023-01-27 (GHS 5)

Revision: 2023-06-28

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

Cleaning agent

#### 1.1 Product identifier

Trade nameConcrete Residue RemoverAlternative number(s)57649

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

Relevant identified uses

#### 1.3 Details of the supplier of the safety data sheet

Mavro International BV Heksekamp 1 5301 LX Zaltbommel Netherlands

Telephone: +31 418 680 680 e-mail: info@mavro-int.com Website: https://www.mavro-int.com

#### 1.4 Emergency telephone number

Emergency information service

+31 418 680 680 This number is only available during the following office hours: Mon-Fri 09:00 AM - 05:00 PM

Poison centre					
Country	Name	Postal code/ city	Telephone	Telefox	Opening hours
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital		0344 892 0111		Mon - Fri 12:00 AM - 12:00 AM

### SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

Classification acc. to GHS

Section	Hozord class	Category	Hazard class and cat- egory	Hazard state- ment
3.2	skin corrosion/irritation	1	Skin Corr. 1	H314
3.3	serious eye damage/eye irritation	1	Eye Dam. 1	H318

For full text of abbreviations: see SECTION 16.



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

Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis.

#### 2.2 Label elements

Labelling

- Signal word danger
- Pictograms

CHS05

- Hazard statements

H314

Causes severe skin burns and eye damage.

#### - Precautionary statements

P260	Do not breathe dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with wa- ter or shower.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310	Immediately call a POISON CENTER/doctor.

- Hazardous ingredients for labelling Glycolic acid

#### 2.3 Other hazards

#### Results of PBT and vPvB assessment

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

#### Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\ge$  0,1%.

### SECTION 3: Composition/information on ingredients

#### 3.1 Substances

Not relevant (mixture)

#### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier	Wt%	Classification acc. to GHS	Pictograms
Clycolic acid	CAS No 79-14-1 EC No 201-180-5	10 - < 25	Acute Tox. 4 / H332 Skin Corr. 1B / H314 Eye Dam. 1 / H318	
(2-methoxymethyleth- oxy)propanol	CAS No 34590-94-8 EC No 252-104-2	1 – < 5		



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Name of sub	stance	Specific Conc. Limits	M-Factors	ATE	Exposure route
Clycolic c	acid	-	-	11 <sup>m9</sup> / <sub>l</sub> /4h 1.5 <sup>m9</sup> / <sub>l</sub> /4h	inhalation: vapour inhalation: dust/mist

For full text of abbreviations: see SECTION 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

#### Ceneral notes

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

If breathing is irregular or stopped, immediately seek medical assistance and start first aid actions. In case of respiratory tract irritation, consult a physician. Provide fresh air.

#### Following skin contact

Wash with plenty of soap and water.

#### Following eye contact

Remove contact lenses, if present and easy to do. Continue rinsing. Irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

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

Symptoms and effects are not known to date.

#### 4.3 Indication of any immediate medical attention and special treatment needed

none

### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Water spray, Alcohol resistant foam, BC-powder, Carbon dioxide (CO2)

#### Unsuitable extinguishing media

Water jet

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

#### Hazardous combustion products

Carbon monoxide (CO), Carbon dioxide (CO2)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.



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#### SECTION 6: Accidental release measures

#### 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapours/dust/spray/gases.

#### 6.2 Environmental precautions

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

#### 6.3 Methods and material for containment and cleaning up

#### Advice on how to contain a spill

Covering of drains

#### Advice on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage: sawdust, kieselgur (diatomite), sand, universal binder

#### Appropriate containment techniques

Neutralisation techniques. Use of adsorbent materials.

#### 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

#### Recommendations

#### - Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Use only in well-ventilated areas.

#### - Handling of incompatible substances or mixtures

Do not mix with alkali.

- Keep away from

Caustic solutions

#### Advice on general occupational hygiene

Wash hands after use. Do not eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Control of effects

Protect against external exposure, such as

frost



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#### - Packaging compatibilities

Only packagings which are approved (e.g. acc. to ADR) may be used.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

	1				асе Ехро						
Coun- try	Name of agent	CAS No	ldenti- fier	TWA [ppm]	TWA (mg/m³)	STEL (ppm)	STEL (mg/m³)	Ceiling- C (ppm)	Ceiling- C [mg/ m³]	Nota- tion	Source
EU	(2-methoxy- methylethoxy)pr opanol	34590-94- 8	IOELV	50	308					Н	2000/ 39/EC
СВ	(2-methoxy- methylethoxy)pr opanol	34590-94- 8	WEL	50	308						EH40, 2005

Notation

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

 H
 absorbed through the skin

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

 TWA
 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)

Relevant DNELs o	of compone	nts of the	e mixture			
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
Clycolic acid	79-14-1	DNEL	10.56 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
Clycolic acid	79-14-1	DNEL	9.2 mg/m³	human, inhalatory	worker (industry)	acute - systemic effects
Clycolic acid	79-14-1	DNEL	1.53 mg/m³	human, inhalatory	worker (industry)	chronic - local ef- fects
Clycolic acid	79-14-1	DNEL	9.2 mg/m³	human, inhalatory	worker (industry)	acute - local effects
Clycolic acid	79-14-1	DNEL	57.69 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
(2-methoxymethyl- ethoxy)propanol	34590-94-8	DNEL	308 mg/m³	human, inhalatory	worker (industry)	chronic - systemic effects
(2-methoxymethyl- ethoxy)propanol	34590-94-8	DNEL	283 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects

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Relevant PNECs	of compone	nts of the	e mixture			
Name of substance	CAS No	Endpoint	Threshold level	Organism	Environmental compartment	Exposure time
Glycolic acid	79-14-1	PNEC	0.031 <sup>mg</sup> / <sub>l</sub>	aquatic organisms	freshwater	short-term (single instance)
Clycolic acid	79-14-1	PNEC	0.003 <sup>mg</sup> /I	aquatic organisms	marine water	short-term (single instance)
Clycolic acid	79-14-1	PNEC	7 <sup>mg</sup> /I	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
Clycolic acid	79-14-1	PNEC	0.115 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
Clycolic acid	79-14-1	PNEC	0.011 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
Clycolic acid	79-14-1	PNEC	0.007 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)
(2-methoxymethyl- ethoxy)propanol	34590-94-8	PNEC	19 <sup>mg</sup> /I	aquatic organisms	freshwater	short-term (single instance)
(2-methoxymethyl- ethoxy)propanol	34590-94-8	PNEC	1.9 <sup>mg</sup> /I	aquatic organisms	marine water	short-term (single instance)
(2-methoxymethyl- ethoxy)propanol	34590-94-8	PNEC	4,168 <sup>mg</sup> /I	aquatic organisms	sewage treatment plant (STP)	short-term (single instance)
(2-methoxymethyl- ethoxy)propanol	34590-94-8	PNEC	70.2 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	freshwater sedi- ment	short-term (single instance)
(2-methoxymethyl- ethoxy)propanol	34590-94-8	PNEC	7.02 <sup>mg</sup> / <sub>kg</sub>	aquatic organisms	marine sediment	short-term (single instance)
(2-methoxymethyl- ethoxy)propanol	34590-94-8	PNEC	2.74 <sup>mg</sup> / <sub>kg</sub>	terrestrial organ- isms	soil	short-term (single instance)

#### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

#### - Hand protection

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

# - Type of material

### - Material thickness

>0,12mm

- Breakthrough times of the glove material >480 minutes (permeation: level 6)

- Other protection measures

Wash hands thoroughly after handling.



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#### Body protection

Protective clothing against liquid chemicals.

#### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

#### Environmental exposure controls

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

Physical state	liquid
Colour	blue
Odour	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)	2 (acid)
Kinematic viscosity	not determined
Solubility(ies)	

Water solubility miscible in any proportion		
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#### Partition coefficient

Partition coefficient n-octanol/water (log value) this information is not available
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Vapour pressure	not determined
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#### Density and/or relative density

Density	1.1 9/ <sub>cm<sup>3</sup></sub>
Relative vapour density	information on this property is not available

	Particle characteristics	not relevant (liquid)
9.2	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.

### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials".

#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

#### 10.5 Incompatible materials

Bases, Oxidisers

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. 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

Shall not be classified as acutely toxic.



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Acute toxicity estimate (ATE) of components of the mixture			
Name of substance CAS No Exposure route ATE			
Clycolic acid	79-14-1	inhalation: vapour	11 <sup>mg</sup> /ı/4h
Glycolic acid	79-14-1	inhalation: dust/mist	1.5 <sup>mg</sup> / <sub>l</sub> /4h

#### Skin corrosion/irritation

Causes severe skin burns and eye damage.

#### Serious eye damage/eye irritation

Causes serious eye damage.

#### 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.

#### 11.2 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.

#### 12.2 Persistence and degradability

Data are not available.

#### 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

According to the results of its assessment, this substance is not a PBT or a vPvB. Does not contain a PBT-/vPvB-substance in a concentration of  $\geq$  0,1%.



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#### 12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (EDC) in a concentration of  $\ge$  0,1%.

#### 12.7 Other adverse effects

Data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Regeneration of acids.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

#### Waste treatment of containers/packagings

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

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

### **SECTION 14: Transport information**

14.1	UN number or ID number	
	ADR/RID	UN 3265
	IMDG-Code	UN 3265
	ICAO-TI	UN 3265
14.2	UN proper shipping name	
	ADR/RID	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
	IMDG-Code	CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S.
	ICAO-TI	Corrosive liquid, acidic, organic, n.o.s.
14.3	Transport hazard class(es)	
	ADR/RID	8
	IMDG-Code	8
	ICAO-TI	8
14.4	Packing group	
	ADR/RID	II
	IMDG-Code	II
	ICAO-TI	II
14.5	Environmental hazards	non-environmentally hazardous acc. to the danger- ous goods regulations

#### 14.6 Special precautions for user

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



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### 14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

Agreement concerning the Internationo Additional information	al Carriage of Dangerous Coods by Road (ADR) -
Classification code	C3
Danger label(s)	8
$\diamond$	
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Tunnel restriction code (TRC)	E
Hazard identification No	80
Emergency Action Code	2X
Regulations concerning the Internation information	al Carriage of Dangerous Goods by Rail (RID) - Additione
Classification code	C3
Danger label(s)	8
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
Transport category (TC)	2
Hazard identification No	80
International Maritime Dangerous Cooc	ds Code (IMDC) - Additional information
Marine pollutant	-
Danger label(s)	8
Special provisions (SP)	274
Excepted quantities (EQ)	E2
Limited quantities (LQ)	1 L
EmS	F-A, S-B
Stowage category	В
Segregation group	1 - Acids



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Inte	rnational Civil Aviation Or	ganization (ICAO-IATA/DCR) - Ade	ditional information
Dan	ger label(s)	8	
	X		

Special provisions (SP)	A3
Excepted quantities (EQ)	E2
Limited quantities (LQ)	0,5 L

### **SECTION 15: Regulatory information**

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

#### Relevant provisions of the European Union (EU)

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)

none of the ingredients are listed

#### **Regulation on detergents**

Labelling of contents	
Constituents	Weight % content (or range)
non-ionic surfactants	less than 5 %

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

None of the ingredients are listed.

#### National inventories

Country	Inventory	Status
EU	REACH Reg.	not all ingredients are listed

Legend

REACH Reg. REACH registered substances

#### 15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.



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### SECTION 16: Other information

### Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
2000/39/EC	Commission Directive establishing a first list of indicative occupational exposure limit values in im- plementation of Council Directive 98/24/EC
Acute Tox.	Acute toxicity
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement con- cerning the International Carriage of Dangerous Goods by Road)
ATE	Acute Toxicity Estimate
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical sub- stances)
Ceiling-C	Ceiling value
DGR	Dangerous Goods Regulations (see IATA/DCR)
DNEL	Derived No-Effect Level
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
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
Eye Dam.	Seriously damaging to the eye
Eye Irrit.	Irritant to the eye
CHS	"Clobally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
ΙΑΤΑ	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
IMDC-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regula- tion (EC) No 1272/2008
IOELV	Indicative occupational exposure limit value
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million



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Abbr.	Descriptions of used abbreviations
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
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
STEL	Short-term exposure limit
TWA	Time-weighted average
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 (IM-DG). 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
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H332	Harmful if inhaled.

#### Disclaimer

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