

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 Issue date: 13-1-2025 Version: 1.0

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

1.1. Product identifier

Product form : Mixture

Product name : CEWELD FL 180

Other means of identification : EN ISO 14174: SA AR 1 76 AC H5

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

Relevant identified uses

: Professional use,Industrial use Main use category Use of the substance/mixture Welding and soldering agents

1.3. Details of the supplier of the safety data sheet

Certilas Nederland BV B.V.

Gloxinialaan 2

NL 6851 TG Huissen

Nederland

info@certilas.com, https://certilas.com/

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Netherlands	Nationaal Vergiftigingen Informatie Centrum (NVIC)	Huispostnummer Q03.2.315 Postbus 85500 3508 GA Utrecht	+31 88 755 80 00	Only for the purpose of informing medical personnel in cases of acute intoxications (24 hours a day, 7 days a week)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Serious eye damage/eye irritation, Category 2 Specific target organ toxicity - Repeated exposure, Category 2 H373

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

May cause damage to organs through prolonged or repeated exposure. Causes serious eye irritation.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP)





GHS07

GHS08

Signal word (CLP) Contains

: Warning

manganese dioxide

Hazard statements (CLP)

H319 - Causes serious eye irritation.

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

Precautionary statements (CLP)

: P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing

P314 - Get medical advice/attention if you feel unwell.

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P337+P313 - If eye irritation persists: Get medical advice/attention.

P501 - Dispose of contents/container to hazardous or special waste collection point, in

accordance with local, regional, national and/or international regulation.

EUH-statements EUH212 - Warning! Hazardous respirable dust may be formed when used. Do not breathe

EUH031 - Contact with acids liberates toxic gas.

2.3. Other hazards

Other hazards which do not result in classification : Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.

Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Aluminium oxide	CAS-No.: 1344-28-1 EC-No.: 215-691-6 REACH-no: 01-2119529248- 35	40 – 50	Not classified
Quartz (SiO2)	CAS-No.: 14808-60-7 EC-No.: 238-878-4 REACH-no: 01-2120770509- 45	10 – 20	Not classified
manganese dioxide	CAS-No.: 1313-13-9 EC-No.: 215-202-6 EC Index-No.: 025-001-00-3 REACH-no: 01-2119452801-	10 – 15	Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1,5 mg/l/4h) STOT RE 2, H373
Titaniumdioxide (Note V)(Note W)(Note 10)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379-	10 – 15	Not classified
Diiron trioxide	CAS-No.: 1309-37-1 EC-No.: 215-168-2	3 – 5	Not classified
Magnesium oxide	CAS-No.: 1309-48-4 EC-No.: 215-171-9	2-5	Not classified
Silicic acid, sodium salt	CAS-No.: 1344-09-8 EC-No.: 215-687-4	1-3	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Note 10: The classification as a carcinogen by inhalation applies only to mixtures in powder form containing 1 % or more of titanium

dioxide which is in the form of or incorporated in particles with aerodynamic diameter ≤ 10 μm.

Note W: It has been observed that the carcinogenic hazard of this substance arises when respirable dust is inhaled in quantities leading to significant impairment of particle clearance mechanisms in the lung. This note aims to describe the particular toxicity of the

substance; it does not constitute a criterion for classification according to this Regulation.

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Note V:

If the substance is to be placed on the market as fibres (with diameter < 3 µm, length > 5 µm and aspect ratio ≥ 3:1) or particles of the substance fulfilling the WHO fibre criteria or as particles with modified surface chemistry, their hazardous properties must be evaluated in accordance with Title II of this Regulation, to assess whether a higher category (Carc. 1B or 1A) and/or additional routes of exposure (oral or dermal) should be applied.

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

: Get medical advice/attention if you feel unwell. If you feel unwell, seek medical advice First-aid measures general

(show the label where possible).

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact Wash skin with plenty of water.

First-aid measures after eve contact Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

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

Symptoms/effects after inhalation : Dust of the product, if present, may cause respiratory irritation after excessive inhalation

exposure.

Symptoms/effects after skin contact None under normal conditions. Dust may cause irritation in skin folds or by contact in

combination with tight clothing.

Symptoms/effects after eye contact : Eve irritation.

Symptoms/effects after ingestion None under normal conditions.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Dry powder. Foam. Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Presents no particular fire or explosion hazard.

Explosion hazard No direct explosion hazard. Hazardous decomposition products in case of fire : Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions : Fight fire from safe distance and protected location. Do not enter fire area without proper

protective equipment, including respiratory protection.

Protection during firefighting Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment : Wear recommended personal protective equipment.

Ventilate spillage area. Do not breathe dust/fume/gas/mist/vapours/spray. Avoid contact **Emergency procedures**

with skin and eyes.

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For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information

refer to section 8: "Exposure controls/personal protection".

Evacuate unnecessary personnel. **Emergency procedures**

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Using a clean shovel, put the material in a dry container and cover without compressing it.

Methods for cleaning up Mechanically recover the product.

Other information Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection". Concerning disposal elimination after cleaning, see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed : Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling Ensure good ventilation of the work station. Do not breathe

dust/fume/gas/mist/vapours/spray. Avoid contact with skin and eyes. Wear personal

protective equipment.

Hygiene measures Do not eat, drink or smoke when using this product. Always wash hands after handling the

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Keep in a cool, well-ventilated place away from heat.

Storage conditions Keep only in the original container in a cool well ventilated place. Keep container closed

when not in use.

Incompatible products Acids

Heat and ignition sources Keep away from heat and direct sunlight.

Packaging materials Store always product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Quartz (SiO2) (14808-60-7)		
EU - Indicative Occupational Exposure Limit (IOEL)		
Local name Silica crystaline (Quartz)		
IOEL TWA 0,05 mg/m³ (respirable dust)		
Remark (Year of adoption 2003)		
Regulatory reference SCOEL Recommendations		
Netherlands - Occupational Exposure Limits		
Local name Respirabel kristallijn silicastof: – kwarts		
Grenswaarde TGG 8H (mg/m³) 0,075 mg/m³		

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Quartz (SiO2) (14808-60-7)		
Remark (Voor respirabel stof) (kankerverwekkende stoff)		
Regulatory reference Arbeidsomstandighedenregeling 2024		
Titaniumdioxide (13463-67-7)		
Netherlands - Occupational Exposure Limits		
TGG-C (OEL C) 5 mg/m³		

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:

Wear recommended personal protective equipment.

Eye and face protection

Eye protection:

Safety glasses. DIN EN 166

Skin protection

Skin and body protection:

Wear suitable protective clothing. ISO 13688

Hand protection:

Wear suitable gloves resistant to chemical penetration. Chemical resistant gloves (according to European standard NF ISO 374-1 or equivalent)

Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid Colour : dark grey. Appearance : Granulate. Odour : odourless. Odour threshold : Not available Melting point : > 1300 °C Freezing point : Not applicable Boiling point : Not available : Non flammable. Flammability Lower explosion limit : Not applicable Upper explosion limit : Not applicable Flash point : Not applicable Auto-ignition temperature : Not applicable Decomposition temperature : Not available Not available pH solution : Not available Viscosity, kinematic Not applicable Solubility Not available Partition coefficient n-octanol/water (Log Kow) : Not available

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: Not available Vapour pressure Vapour pressure at 50°C : Not available Density Not available Not available Relative density Relative vapour density at 20°C Not applicable Particle size Not available

9.2. Other information

Other safety characteristics

Bulk density : ≈ 1000 kg/m³

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Contact with acids liberates toxic gas.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Acids.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

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

: Not classified (Based on available data, the classification criteria are not met) Acute toxicity (oral) Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)

Acute toxicity (inhalation) : 1		Not classified (Based on available data, the classification criteria are not met)	
manganese dioxide (1313-13-9)			
LD50 oral rat		9000 mg/kg	
Titaniumdioxide (13463-67-7)			
LD50 oral		> 5000 mg/kg bodyweight	
LC50 Inhalation - Rat		> 6,82 mg/l	
Skin corrosion/irritation	: N	Not classified (Based on available data, the classification criteria are not met)	
Serious eye damage/irritation	: (Causes serious eye irritation.	
Respiratory or skin sensitisation	: 1	Not classified (Based on available data, the classification criteria are not met)	
Germ cell mutagenicity	: 1	Not classified (Based on available data, the classification criteria are not met)	
Carcinogenicity	: 1	Not classified (Based on available data, the classification criteria are not met)	
Quartz (SiO2) (14808-60-7)			
IARC group		1 - Carcinogenic to humans	

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Titaniumdioxide (13463-67-7)	
IARC group	2B - Possibly carcinogenic to humans
Reproductive toxicity :	Not classified (Based on available data, the classification criteria are not met)
STOT-single exposure :	Not classified (Based on available data, the classification criteria are not met)
Silicic acid, sodium salt (1344-09-8)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure :	May cause damage to organs through prolonged or repeated exposure.
manganese dioxide (1313-13-9)	
STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard :	Not classified (Based on available data, the classification criteria are not met)
CEWELD FL 180	
Viscosity, kinematic	Not applicable

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term : Not classified (Based on available data, the classification criteria are not met) (acute)

Hazardous to the aquatic environment, long-term : Not classified (Based on available data, the classification criteria are not met) (chronic)

Titaniumdioxide (13463-67-7)		
LC50 - Fish [1] > 1000 mg/l Pimephales promelas		
EC50 - Crustacea [1]	> 1000 mg/l Daphnia magna	
EC50 72h - Algae [1]	61 mg/l Pseudokirchneriella subcapitata	

12.2. Persistence and degradability

CEWELD FL 180			
Persistence and degradability	Biodegradability in water: no data available.		
Quartz (SiO2) (14808-60-7)			
Persistence and degradability	Biodegradability in water: no data available.		
manganese dioxide (1313-13-9)			
Persistence and degradability	Readily biodegradable.		
Titaniumdioxide (13463-67-7)			
Persistence and degradability	Biodegradability in water: no data available.		
Diiron trioxide (1309-37-1)			
Persistence and degradability	The methods for determining biodegradability are not applicable to inorganic substances.		
Magnesium oxide (1309-48-4)			
Persistence and degradability	Rapidly degradable		

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Aluminium oxide (1344-28-1)		
Persistence and degradability The methods for determining biodegradability are not applicable to inorganic substances.		
Silicic acid, sodium salt (1344-09-8)		
Persistence and degradability Biodegradability in water: no data available.		

12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Titaniumdioxide (13463-67-7)		
Other information	Avoid release to the environment.	

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods

Sewage disposal recommendations

Product/Packaging disposal recommendations

Additional information

European List of Waste (LoW, EC 2000/532)

HP Code

- : Dispose of contents/container in accordance with licensed collector's sorting instructions.
- Disposal must be done according to official regulations.
- Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
- Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.
- 16 03 03* inorganic wastes containing dangerous substances
 - 15 01 10* packaging containing residues of or contaminated by dangerous substances
- HP5 "Specific Target Organ Toxicity (STOT)/Aspiration Toxicity:" waste which can cause specific target organ toxicity either from a single or repeated exposure, or which cause acute toxic effects following aspiration.

HP12 - "Release of an acute toxic gas:" waste which releases acute toxic gases (Acute Tox. 1, 2 or 3) in contact with water or an acid

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / RID

ADR	IMDG	IATA	RID		
14.1. UN number or ID number	14.1. UN number or ID number				
Not regulated for transport					
14.2. UN proper shipping name					
Not regulated Not regulated Not regulated Not regulated					
14.3. Transport hazard class(es)					
Not regulated	Not regulated	Not regulated	Not regulated		

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ADR	IMDG	IATA	RID	
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	
14.5. Environmental hazards				
Not regulated Not regulated Not regulated Not regulated				
No supplementary information available				

14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)				
Reference code	Applicable on	Entry title or description		
3(b)	Silicic acid, sodium salt	Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10		

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Aluminium oxide (1344-28-1).

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Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Netherlands

ABM category : A(4) - low hazard for aquatic organisms, may have longterm hazardous effects in aquatic

SZW-lijst van kankerverwekkende stoffen

SZW-lijst van mutagene stoffen

SZW-lijst van reprotoxische stoffen – Borstvoeding

SZW-lijst van reprotoxische stoffen -

Vruchtbaarheid

SZW-lijst van reprotoxische stoffen – Ontwikkeling

environment

: None of the components are listed : None of the components are listed

: None of the components are listed

: None of the components are listed

: None of the components are listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:			
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways		
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road		
ATE	Acute Toxicity Estimate		
BCF	Bioconcentration factor		
BLV	Biological limit value		
BOD	Biochemical oxygen demand (BOD)		
COD	Chemical oxygen demand (COD)		
DMEL	Derived Minimal Effect level		
DNEL	Derived-No Effect Level		
EC-No.	European Community number		
EC50	Median effective concentration		
EN	European Standard		
IARC	International Agency for Research on Cancer		
IATA	International Air Transport Association		
IMDG	International Maritime Dangerous Goods		
LC50	Median lethal concentration		
LD50	Median lethal dose		
LOAEL	Lowest Observed Adverse Effect Level		
NOAEC	No-Observed Adverse Effect Concentration		
NOAEL	No-Observed Adverse Effect Level		
NOEC	No-Observed Effect Concentration		
OECD	Organisation for Economic Co-operation and Development		

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Abbreviations and acronyms:			
OEL	Occupational Exposure Limit		
PBT	Persistent Bioaccumulative Toxic		
PNEC	Predicted No-Effect Concentration		
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail		
SDS	Safety Data Sheet		
STP	Sewage treatment plant		
ThOD	Theoretical oxygen demand (ThOD)		
TLM	Median Tolerance Limit		
VOC	Volatile Organic Compounds		
CAS-No.	Chemical Abstract Service number		
N.O.S.	Not Otherwise Specified		
vPvB	Very Persistent and Very Bioaccumulative		
ED	Endocrine disruptor		

Data sources
Other information

: ECHA (European Chemicals Agency).

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This information is based on current knowledge. Consistency of data in the SDS with CSR is considered, as far as the information is available at the time of compilation (cfr Revision date and Version number).

Full text of H- and EUH-statements:				
Acute Tox. 4 (Inhalation)	Acute toxicity (inhal.), Category 4			
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4			
Eye Dam. 1	Serious eye damage/eye irritation, Category 1			
Skin Irrit. 2	Skin corrosion/irritation, Category 2			
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2			
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation			
H302	Harmful if swallowed.			
H315	Causes skin irritation.			
H318	Causes serious eye damage.			
H319	Causes serious eye irritation.			
H332	Harmful if inhaled.			
H335	May cause respiratory irritation.			
H373	May cause damage to organs through prolonged or repeated exposure.			
EUH031	Contact with acids liberates toxic gas.			
EUH212	Warning! Hazardous respirable dust may be formed when used. Do not breathe dust.			

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Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:			
Eye Irrit. 2	H319	Calculation method	
STOT RE 2	H373	Calculation method	

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