

Section 1—Identification

Item	Description
Product identifier	Renolith 2.0
Other means of identification	Renolith NTS (EU SDS No: 13403-0001)
Recommended use of the chemical and restrictions on use	<p><u>Recommended Use</u></p> <ul style="list-style-type: none">• Soil-cement stabilization additive• Concrete additive <p><u>Restrictions</u></p> <ul style="list-style-type: none">• No additional information available
Details of manufacturer or importer	<p><u>Manufacturer</u></p> <p>Nano-GmbH Akazienstr. 31 32105 Bad Salzuflen Tel: 05222 10 979 Tel: +49 (89) 476 057 Website: https://www.nano-gmbh.com/ Email: info@nano-gmbh.com</p> <p>E-mail address of competent person responsible for the originating SDS (EU SDS No: 13403-0001): sds@gbk-ingelheim.de</p> <p><u>Importer</u></p> <p>Grey Vort Pty Ltd 2/312 Lawrence Rd Mt Waverley VIC 3149 Tel: +61 493 376 007 Website: https://renolith.com.au/ Email: roads@renolith.com.au</p>
Emergency phone number	Poisons Information Centre 13 11 26

Section 2—Hazard(s) identification

WHS Regulations requirement	Applicability
GHS hazard statements	Nil
GHS hazard pictograms	Nil
Signal words	Nil
Non-GHS hazard statements	Nil
Precautionary statements	Nil

Section 3—Composition and information on ingredients

Item	Description
Substances	Not applicable
Mixtures	Full text of H- and EUH-statements: see section 16

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Calcium chloride	CAS-No.: 13477-29-7 EC Index-No.: 017-013-00-2	≥ 3 – < 5	Eye Irrit. 2, H319
Sodium dodecyl sulphate	CAS-No.: 151-21-3 EC-No.: 205-788-1 REACH-no: 01-211948946132	≥ 0.5 – < 3	Flam. Sol. 2, H228 Acute Tox. 4 (Oral), H302 (ATE=500 mg/kg bodyweight) Acute Tox. 4 (Inhalation), H332 (ATE=1.5 mg/l/4h) Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Chronic 3, H412
Calcium dihydroxide	CAS-No.: 1305-62-0 EC-No.: 215-137-3	≥ 1 – < 3	Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335

Substance with a community workplace exposure limit	REACH-no: 01-211947515145		
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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Sodium dodecyl sulphate	CAS-No.: 151-21-3 EC-No.: 205-788-1 REACH-no: 01-211948946132	(10 ≤ C < 20) Eye Irrit. 2, H319 (20 ≤ C < 100) Eye Dam. 1, H318

Section 4—First aid measures

Term	Description
Description of necessary first aid measures	<p><u>General remarks</u></p> <p>Take off dirty, soaked clothes immediately.</p> <p>Consult a medical professional if you feel sick.</p> <p>No special measures required.</p> <p><u>After inhalation</u></p> <p>Remove person to fresh air and keep comfortable for breathing.</p> <p><u>After skin contact</u></p> <p>Wash skin with plenty of water.</p> <p><u>After eye contact</u></p> <p>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.</p> <p><u>After ingestion</u></p> <p>Call a poison center or a doctor if you feel unwell.</p>
Most important symptoms and effects, both acute and delayed	<p><u>Symptoms/effects after eye contact</u></p> <p>Eye irritation.</p>
Indication of any immediate medical attention and special treatment needed	<p>Treat symptomatically.</p>

Section 5—Firefighting measures

Item	Description
Suitable extinguishing equipment	<p><u>Suitable</u> Carbon dioxide (CO₂), foam, dry fire extinction agent (powder), water spray/mist</p> <p><u>Unsuitable</u> Do not use a solid water stream as it may scatter and spread fire.</p>
Specific hazards arising from the chemical	<p><u>Hazardous decomposition products in case of fire</u> Toxic fumes may be released. Carbon oxides (CO, CO₂).</p>
Special protective equipment and precautions for firefighters	<p>Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.</p>

Section 6—Accidental release measures

Item	Description
Personal precautions, protective equipment, and emergency procedures	<p><u>For non-emergency personnel</u></p> <p>Emergency procedures Ventilate spillage area. Avoid contact with skin and eyes.</p> <p><u>For emergency responders</u></p> <p>Protective equipment Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".</p>
Environmental precautions	Avoid release to the environment.
Methods and materials for containment and cleaning up	<p><u>Methods for cleaning up</u> Take up liquid spill into absorbent material. (e.g., sand, diatomaceous earth, universal binder, sawdust)</p> <p><u>Other information</u> Dispose of materials or solid residues at an authorized site.</p>

Item	Description
Reference to other sections	For further information refer to section 8: "Exposure controls/personal protection". For further information refer to section 13.

Section 7—Handling and storage

Item	Description
Precautions for safe handling	<p><u>Precautions for safe handling</u></p> <p>Ensure good ventilation of the workstation. Avoid contact with skin and eyes. Wear personal protective equipment.</p> <p><u>Hygiene measures</u></p> <p>Do not eat, drink or smoke when using this product. Always wash hands after handling the product.</p>
Conditions for safe storage, including any incompatibilities	<p><u>Storage conditions</u></p> <p>Store in a well-ventilated place. Keep cool.</p>
Specific end use(s)	See Section 1.

Section 8—Exposure controls and personal protection

Item	Description
Control parameters	National occupational exposure and biological limit values.

Calcium dihydroxide (1305-62-0)		
Indicative Occupational Exposure Limit (IOEL)		
Local name	Calcium dihydroxide	Calcium hydroxide
IOEL TWA	1 mg/m ³ (Respirable fraction)	5 mg/m ³
IOEL STEL	4 mg/m ³ (Respirable fraction)	nil
Regulatory reference	COMMISSION DIRECTIVE (EU) 2017/164	Safe Work Australia - Workplace Exposure Standards for Airborne Contaminants 2022

Control parameters	<p><u>Recommended monitoring procedures</u></p> <p>No additional information available</p> <p><u>Air contaminants formed</u></p> <p>No additional information available</p> <p><u>DNEL and PNEC</u></p> <p>No additional information available</p> <p><u>Control banding</u></p> <p>No additional information available</p>
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Exposure controls

Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the workstation.

Personal protection equipment

Eye and face protection

Eye protection: Use splash goggles when eye contact due to splashing is possible

Skin protection

Skin and body protection: Not required for normal conditions of use

Hand protection: Chemically resistant protective gloves. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. The exact break through time has to be found out by the manufacturer of the protective gloves

Respiratory protection

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Thermal hazards

No additional information available.

Environmental exposure controls

Environmental exposure controls: Avoid release to environment.

Section 9—Physical and chemical properties

Property	Description
physical state	liquid
colour	Not available
odour	Not available
melting point/freezing point	Not available
boiling point	Not available

Property	Description
flammability	Not flammable
lower and upper explosion limit/flammability limit	Not available
flash point	Not available
Auto-ignition temperature	Not available
decomposition temperature	Not available
pH	9-11 at 25°C
kinematic viscosity	Not available
solubility	Not available
partition coefficient-n-octanol/water (log value)	Not available
vapour pressure	Not available
density	1.00 – 1.02 g/cm ³
relative vapour density	Not available
particle characteristics	Not applicable
Item	Description
Other information	<u>Information with regard to physical hazard classes</u> No additional information <u>Other safety characteristics</u> No additional information

Section 10—Stability and reactivity

Item	Description
Reactivity	The product is non-reactive under normal conditions of use, storage and transport.
Chemical stability	Stable under normal conditions
Possibility of hazardous reactions	No dangerous reactions known under normal conditions of use.
Conditions to avoid	None under recommended storage and handling conditions (see section 7).
Incompatible materials	No additional information available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11—Toxicological information

Item	Description
Information on hazard classes as defined in Regulation (EC) No 1272/2008	<u>Acute toxicity (oral)</u> Not classified (Based on available data, the classification criteria are not met) <u>Acute toxicity (dermal)</u> Not classified (Based on available data, the classification criteria are not met) <u>Acute toxicity (inhalation)</u> Not classified (Based on available data, the classification criteria are not met)

Item	Description
Calcium dihydroxide (1305-62-0)	
LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity), Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LC50 inhalation rat	> 6.04 mg/l air Animal: rat, Guideline: OECD Guideline 436 (Acute Inhalation Toxicity: Acute Toxic Class Method)
Sodium dodecyl sulphate (151-21-3)	
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
ATE CLP (oral)	500 mg/kg bodyweight
ATE CLP (gases)	4500 ppmv/4h
ATE CLP (vapours)	11 mg/l/4h
ATE CLP (dust, mist)	1.5 mg/l/4h

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

Skin corrosion/irritation:

Not classified (Based on available data, the classification criteria are not met)

Serious eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitization:

Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity:

Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity:

Not classified (Based on available data, the classification criteria are not met)

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)

Item	Description
Calcium dihydroxide (1305-62-0)	
STOT-single exposure	May cause respiratory irritation.
Sodium dodecyl sulphate (151-21-3)	
STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	Not classified (Based on available data, the classification criteria are not met)
Calcium dihydroxide (1305-62-0)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
Aspiration hazard	Not classified (Based on available data, the classification criteria are not met)

Information on other hazards

No additional information available

Section 12—Ecological information

Item	Description
Toxicity	<p><u>Ecology - general:</u></p> <p>The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.</p> <p><u>Hazardous to the aquatic environment, short-term (acute)</u></p> <p>Not classified</p> <p><u>Hazardous to the aquatic environment, long-term (chronic)</u></p> <p>Not classified</p>

Calcium dihydroxide (1305-62-0)	
LC50 fish 1	50.6 mg/l Test organisms (species): Oncorhynchus mykiss (previous name: Salmo gairdneri)
Calcium dihydroxide (1305-62-0)	
EC50 Daphnia 1	49.1 mg/l Test organisms (species): Daphnia magna
EC50 72h - Algae [1]	184.57 mg/l Test organisms (species): Pseudokirchneriella subcapitata (previous names: Raphidocelis subcapitata, Selenastrum capricornutum)
NOEC (chronic)	32 mg/l Test organisms (species): Crangon septemspinosus Duration: '14 days'
Sodium dodecyl sulphate (151-21-3)	
LC50 fish 1	29 mg/l Test organisms (species): Pimephales promelas
EC50 - Other aquatic organisms [1]	11.1 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	> 120 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
EC50 72h - Algae [2]	53 mg/l Test organisms (species): Desmodesmus subspicatus (previous name: Scenedesmus subspicatus)
NOEC chronic fish	≥ 1357 mg/l Test organisms (species): Pimephales promelas Duration: '42 d'

Item	Description
Persistence and degradability	No additional information available.
Bioaccumulative potential	No additional information available.
Mobility in soil	No additional information available.
Results of PBT and vPvB assessment	No additional information available.
Endocrine disrupting properties	No additional information available.
Other adverse effects	No additional information available.

Section 13—Disposal considerations

Item	Description
Waste treatment methods	<p><u>Waste treatment methods:</u></p> <p>Dispose of contents/container in accordance with licensed collector's sorting instructions. Disposal must be done according to official regulations.</p>

Section 14—Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
UN proper shipping name				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
ADR	IMDG	IATA	ADN	RID
Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated

Item	Description
Special precautions for user	<p><u>Overland transport</u> Not regulated</p> <p><u>Transport by sea</u> Not regulated</p> <p><u>Air transport</u> Not regulated</p> <p><u>Inland waterway transport</u> Not regulated</p> <p><u>Rail transport</u> Not regulated</p>
Maritime transport in bulk according to IMO instruments	Not applicable

Section 15—Regulatory information

Item	Description
Safety, health and environmental regulations/legislation specific for the substance or mixture	<p><u>EU-Regulations:</u></p> <ul style="list-style-type: none"> • Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions) • Contains no substance(s) listed on the REACH Candidate List • Contains no substance(s) listed on REACH Annex XIV (Authorisation List) • Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals) • Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants) • Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer) • Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Item	Description
Directive 2012/18/EU (SEVESO III)	<p><u>Seveso Additional information</u></p> <ul style="list-style-type: none"> Not subject to the Seveso III Directive 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) <p><u>National regulations</u></p> <ul style="list-style-type: none"> No additional information available
Chemical safety assessment	No chemical safety assessment has been carried out

Section 16—Any other relevant information

Definitions

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

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 disrupting properties
DOT	Department of Transport
TDG	Transportation of Dangerous Goods
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
GHS	Globally Harmonized System of Classification, Labelling and Packaging of Chemicals
IBC-Code	International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
MARPOL 73/78	MARPOL 73/78: International Convention for the Prevention of Pollution From Ships
ADG	Transport of Australian Dangerous Goods

Item	Description
Other information	Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major mounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

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
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2

Full text of H- and EUH-statements:	
Flam. Sol. 2	Flammable solids, Category 2
H228	Flammable solid.
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.
H412	Harmful to aquatic life with long lasting effects.
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Administration

Revision 0 of this SDS was released on 18 Nov 2022

[Model Code of Practice: Preparation of safety data sheets for hazardous chemicals](#) dated 01 Jul 2020, published by Safe Work Australia states: “A chemical that is not hazardous does not require a safety data sheet, however if you intend to prepare an SDS for a non-hazardous chemical it should be prepared in accordance with this code so far as is reasonably practicable.”

Accordingly:

- This SDS was prepared by the Importer in accordance with the Model Code of Practice so far as is reasonably practicable, based on the Material Safety Data Sheet provided by the product manufacturer.
- Refer to the Model Code of Practice for a description of any abbreviations and acronyms used.

This SDS refers only to the product named “Renolith 2.0” imported to Australia, New Zealand and Papua New Guinea by Grey Vort Pty Ltd from 2022. This SDS is not applicable to the following similarly named products previously available in Australia:

- Renolith Chemwatch 5131-53
- Renolith WS Chemwatch 5131-54
- Renolith WP Chemwatch 6606-07