Safety Data Sheet
SEAL 5552 NERA

Safety Data Sheet dated 1/3/2022, version 10

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

1.1. Product identifier

Mixture identification:

Trade name: SEAL 5552 NERA

Trade code: 0075

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

Recommended use:

Liquid seal

1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.

via Antica di Cassano, 23, 20063

Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 - 22:00)

In South Africa: Poison Information Helpline 0861 555 777

In Malta: emergency number 112

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

The product is not classified as dangerous according to Regulation EC 1272/2008 (CLP).

Hazard pictograms:

None

Hazard statements:

None

Precautionary statements:

None

Special Provisions:

EUH210 Safety data sheet available on request.

EUH208 Contains 3-aminopropyltriethoxysilane. May produce an allergic reaction.

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration >= 0.1%

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 2% - < 3% 2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime

REACH No.: 01-2120006148-66, CAS: 58190-62-8, EC: 700-810-0

3.1/4/Oral Acute Tox. 4 H302

3.3/2 Eye Irrit. 2 H319

3.9/2 STOT RE 2 H373

>= 2% - < 3% 2-Pentandione, O, O',O''-(methylsilydyne)trioxime

REACH No.: 01-2120004323-76, CAS: 37859-55-5

3.1/4/Oral Acute Tox. 4 H302

3.3/2 Eye Irrit. 2 H319

3.9/2 STOT RE 2 H373

>= 1% - < 2% 2-Pentanone ossima

REACH No.: 01-0000020248-72, CAS: 623-40-5, EC: 484-470-6

3.1/4/Oral Acute Tox. 4 H302

3.3/2 Eye Irrit. 2 H319

3.9/2 STOT RE 2 H373

4.1/C3 Aquatic Chronic 3 H412

>= 0.5% - < 1% 3-aminopropyltriethoxysilane

REACH No.: 01-2119480479-24, CAS: 919-30-2, EC: 213-048-4

3.1/4/Oral Acute Tox. 4 H302

3.4.2/1 Skin Sens. 1 H317

3.2/1B Skin Corr. 1B H314

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Wash with plenty of water and soap.

In case of eyes contact:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

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

None

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

Treatment:

None

SECTION 5: Firefighting measures

5.1. Extinguishing media

Appropriate Extinguishing Media:
Foam
To dust.
To carbon dioxide.
Not Recommended Extinguishing Media:
To water.

5.2. Special hazards arising from the substance or mixture
Do not inhale explosion and combustion gases.
Burning produces heavy smoke.

5.3. Advice for firefighters
Use suitable breathing apparatus .
Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Move undamaged containers from immediate hazard area if it can be done safely.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Wear personal protection equipment.
Remove persons to safety.
See protective measures under point 7 and 8.

6.2. Environmental precautions
Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.
Retain contaminated washing water and dispose it.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.
Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up
Wash with plenty of water.

6.4. Reference to other sections
See also section 8 and 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Avoid contact with skin and eyes, inhalation of vapours and mists.
See also section 8 for recommended protective equipment.
Advice on general occupational hygiene:
Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities
Store in a dry place.
Avoid exposure to direct sunlight.
Provide adequate ventilation/air extraction in work areas.
Store at temperatures below 50°C/122°F.
Keep away from food, drink and feed.
Incompatible materials:
None in particular.
Instructions as regards storage premises:
Adequately ventilated premises.

7.3. Specific end use(s)
None in particular

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
No occupational exposure limit available

DNEL Exposure Limit Values
2-Pentanone ossima - CAS: 623-40-5
Worker Industry: 25 mg/m3 - Worker Professional: 25 mg/m3 - Consumer: 6.22 mg/m3 -

Exposure: Human Inhalation - Frequency: Long Term, systemic effects
Worker Industry: 75 mg/m3 - Worker Professional: 75 mg/m3 - Consumer: 18.66 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects
Worker Industry: 0.208 mg/kg - Worker Professional: 0.208 mg/kg - Consumer: 0.125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects
Worker Industry: 0.624 mg/kg - Worker Professional: 0.624 mg/kg - Consumer: 0.375 mg/kg - Exposure: Human Dermal - Frequency: Short Term, systemic effects
Consumer: 0.125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

PNEC Exposure Limit Values

2-Pentanone ossima - CAS: 623-40-5

Target: Fresh Water - Value: 0.088 mg/l
Target: Marine water - Value: 0.0088 mg/l
Target: Freshwater sediments - Value: 0.5 mg/kg
Target: Marine water sediments - Value: 0.05 mg/kg
Target: Soil (agricultural) - Value: 0.05 mg/kg

8.2. Exposure controls

Eye protection:

Safety goggles.

Protection for skin:

protective clothing

Protection for hands:

We recommend using rubber gloves.

Respiratory protection:

In case of insufficient ventilation, use adequate respiratory protection equipment.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

The normal (mechanical) ventilation of the room should be sufficient for work not extended with the product. For more extensive activities with it (or if necessary to ensure the well-being of the worker), a local mechanical air extractor should be provided.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Physical state:	Liquid	--	--
Colour:	Black	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial boiling point and boiling range:	N.A.	--	--
Flammability:	N.A.	--	--
Lower and upper explosion limit:	N.A.	--	--
Flash point:	N.A.	--	--

Auto-ignition temperature:	N.A.	--	--
Decomposition temperature:	N.A.	--	--
pH:	N.A.	--	--
Kinematic viscosity:	N.A.	--	--
Solubility in water:	Insoluble	--	--
Solubility in oil:	N.A.	--	--
Partition coefficient n-octanol/water (log value):	N.A.	--	--
Vapour pressure:	N.A.	--	--
Density and/or relative density:	1.33 kg/dm3	--	--
Relative vapour density:	N.A.	--	--
Particle characteristics:			
Particle size:	N.A.	--	--

9.2. Other information
No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity
Vulcanizes at room temperature in contact with humid air.
10.2. Chemical stability
Stable at room temperature, not in contact with air.
10.3. Possibility of hazardous reactions
None
10.4. Conditions to avoid
Stable under normal conditions.
10.5. Incompatible materials
Strong oxidising agents. Water.
10.6. Hazardous decomposition products
Thermal decomposition or combustion can release carbon oxides and other toxic gases and vapours. Amorphous silica.
May produce hazardous substances during use or in contact with water.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008
Toxicological information of the product:
SEAL 5552 NERA
a) acute toxicity
Not classified
Based on available data, the classification criteria are not met
Test: oecd 10 - Route: Oral 15997.4 mg/kg

Test: oecd 10 - Route: Skin 8860.46 mg/kg

b) skin corrosion/irritation
Not classified
Based on available data, the classification criteria are not met

c) serious eye damage/irritation
Not classified
Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation
Not classified
Based on available data, the classification criteria are not met

e) germ cell mutagenicity
Not classified
Based on available data, the classification criteria are not met

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

g) reproductive toxicity
Not classified
Based on available data, the classification criteria are not met

h) STOT-single exposure
Not classified
Based on available data, the classification criteria are not met

i) STOT-repeated exposure
Not classified
Based on available data, the classification criteria are not met

j) aspiration hazard
Not classified
Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime - CAS: 58190-62-8

g) reproductive toxicity:
Test: NOAEL - Route: Oral - Species: Rat > 103 mg/kg - Source: OECD 415
Test: NOAEL - Route: Oral - Species: Rat > 45 mg/kg

2-Pentandione, O, O',O''-(methylsilydyne)trioxime - CAS: 37859-55-5

g) reproductive toxicity:
Test: NOAEL - Route: Oral - Species: Rat > 99 mg/kg
Test: NOAEL - Route: Oral - Species: Rat > 43 mg/kg

3-aminopropyltriethoxysilane - CAS: 919-30-2

a) acute toxicity:
Test: LC50 - Route: Inhalation - Species: Rat > 0.045 mg/l
Test: NOAEL - Route: Oral - Species: Rat 200 mg/kg
Test: LOAEL - Route: Oral - Species: Rat 600 mg/kg

b) skin corrosion/irritation:
Test: OECD TG 404 - Route: Skin - Species: Rabbit Positive

c) serious eye damage/irritation:
Test: OECD TG 405 - Route: EYE - Species: Rabbit Positive

d) respiratory or skin sensitisation:
Test: OECD TG 406 - Route: Skin - Species: CAVIA Positive

e) germ cell mutagenicity:
Test: oecd - Species: Generic Bacteria No

g) reproductive toxicity:
Test: oecd 6 - Route: Oral - Species: Rat noael 1000 mg/kg

11.2. Information on other hazards

Endocrine disrupting properties:
No endocrine disruptor substances present in concentration >= 0.1%

SECTION 12: Ecological information

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime - CAS: 58190-62-8

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 117 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 117 mg/l - Duration h: 48
Endpoint: CE6 - Species: Algae 103 mg/l - Duration h: 72

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Algae 37 mg/l - Duration h: 72

2-Pentandione, O, O',O''-(methylsilydyne)trioxime - CAS: 37859-55-5

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 113 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia > 113 mg/l - Duration h: 48
Endpoint: CE6 - Species: Algae 103 mg/l - Duration h: 72
Endpoint: NOEC - Species: Algae 37 mg/l - Duration h: 72

3-aminopropyltriethoxysilane - CAS: 919-30-2

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 934 mg/l - Duration h: 96
Endpoint: EC50 - Species: Daphnia 331 mg/l - Duration h: 48
Endpoint: EC50 - Species: Algae 1000 mg/l - Duration h: 72
Endpoint: NOEC - Species: Algae 1.3 mg/l - Duration h: 72

12.2. Persistence and degradability

None

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime - CAS: 58190-62-8

Biodegradability: Non-readily biodegradable - Test: BIOGDG06 - Duration: 28gg - %: 1

3-aminopropyltriethoxysilane - CAS: 919-30-2

Biodegradability: Non-readily biodegradable - Duration: 28gg - %: 67

12.3. Bioaccumulative potential

2-Pentanone, O,O',O''-(ethenylsilylidyne)trioxime - CAS: 58190-62-8

Test: BCF - Bioconcentrantion factor 69.21

3-aminopropyltriethoxysilane - CAS: 919-30-2

Bioaccumulation: OECD305 - Test: BCF - Bioconcentrantion factor 3.4

12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration >= 0.1%

12.7. Other adverse effects

None

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover if possible. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Dispose of waste at suitable centres for the processing or disposal of waste in compliance with the laws and regulations in force and the characteristics of the product at the time of disposal. Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal.

SECTION 14: Transport information

14.1. UN number or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name
N.A.

14.3. Transport hazard class(es)
N.A.

14.4. Packing group
N.A.

14.5. Environmental hazards
ADR-Enviromental Pollutant: No
IMDG-Marine pollutant: No

14.6. Special precautions for user
N.A.

14.7. Maritime transport in bulk according to IMO instruments
N.A.

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Dir. 98/24/EC (Risks related to chemical agents at work)
Dir. 2000/39/EC (Occupational exposure limit values)
Regulation (EC) n. 1907/2006 (REACH)
Regulation (EC) n. 1272/2008 (CLP)
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013
Regulation (EU) n. 2020/878
Regulation (EU) n. 286/2011 (ATP 2 CLP)
Regulation (EU) n. 618/2012 (ATP 3 CLP)
Regulation (EU) n. 487/2013 (ATP 4 CLP)
Regulation (EU) n. 944/2013 (ATP 5 CLP)
Regulation (EU) n. 605/2014 (ATP 6 CLP)
Regulation (EU) n. 2015/1221 (ATP 7 CLP)
Regulation (EU) n. 2016/918 (ATP 8 CLP)
Regulation (EU) n. 2016/1179 (ATP 9 CLP)
Regulation (EU) n. 2017/776 (ATP 10 CLP)
Regulation (EU) n. 2018/669 (ATP 11 CLP)
Regulation (EU) n. 2018/1480 (ATP 13 CLP)
Regulation (EU) n. 2019/521 (ATP 12 CLP)
Regulation (EU) n. 2020/217 (ATP 14 CLP)
Regulation (EU) n. 2020/1182 (ATP 15 CLP)
Regulation (EU) n. 2021/643 (ATP 16 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:
Restrictions related to the product:
No restriction.
Restrictions related to the substances contained:
No restriction.

Volatile Organic compounds - VOCs = 0.00 %
Volatile Organic compounds - VOCs = 0.00 g/Kg
Volatile Organic compounds - VOCs = 0.00 g/l
Where applicable, refer to the following regulatory provisions :
Directive 2012/18/EU (Seveso III)
Regulation (EC) nr 648/2004 (detergents).
Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):
Seveso III category according to Annex 1, part 1
None

15.2. Chemical safety assessment
No Chemical Safety Assessment has been carried out for the mixture.
Substances for which a Chemical Safety Assessment has been carried out:
None

SECTION 16: Other information

Text of phrases referred to under heading 3:
H302 Harmful if swallowed.
H319 Causes serious eye irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H412 Harmful to aquatic life with long lasting effects.
H317 May cause an allergic skin reaction.
H314 Causes severe skin burns and eye damage.

Hazard class and hazard category	Code	Description
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
STOT RE 2	3.9/2	Specific target organ toxicity - repeated exposure, Category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 2: Hazards identification
SECTION 3: Composition/information on ingredients
SECTION 8: Exposure controls/personal protection
SECTION 11: Toxicological information
SECTION 12: Ecological information
SECTION 14: Transport information
SECTION 15: Regulatory information
SECTION 16: Other information

This document was prepared by a competent person who has received appropriate training.
Main bibliographic sources:
ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold
The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.
This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NA:	Not applicable
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.