



**Safety Data Sheet dated 6/12/2024, version 12**

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**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  
Uses advised against:  
Strictly adhere to the recommended uses.
- 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: emergency number 112  
In South Africa: Poison Information Helpline 0861 555 777  
In Malta: emergency number 112

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**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP):  
The product is not classified as hazardous 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 hazardous 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  $\geq 0.1\%$

## Safety Data Sheet

### SEAL 5552 NERA



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:

stta	Name	Ident. Number	Classification
>= 2% - < 3%	2-Pentanone, O,O',O''-(ethenylsilyldyne) trioxime	CAS: 58190-62-8 EC: 700-810-0 REACH No.: 01-2120006148-66	⚠ 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''-(methylsilyldyne) trioxime	CAS: 37859-55-5 REACH No.: 01-2120004323-76	⚠ 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	CAS: 623-40-5 EC: 484-470-6 REACH No.: 01-0000020248-72	⚠ 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	CAS: 919-30-2 EC: 213-048-4 REACH No.: 01-2119480479-24	⚠ 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

## Safety Data Sheet

### SEAL 5552 NERA



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  
Normal fire-fighting clothing, such as an open-circuit compressed air breathing apparatus (EN 137), flame-resistant suit (EN469), flame-resistant gloves (EN 659) and firefighter's boots (HO A29 or A30).

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#### 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  
For cleaning up:  
Avoid flame and/or spark near leak and produced waste. Do not smoke. In case of large spills dike,  
absorb and shovel up into suitable containers for disposal. Contain small spills with absorbent material.  
Put dirty material in suitable container. Dispose of dirty material in accordance with local or national regulations.
- 6.4. Reference to other sections  
See also section 8 and 13

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#### 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.  
Only store in the original container.  
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/m<sup>3</sup> - Worker Professional: 25 mg/m<sup>3</sup> - Consumer: 6.22 mg/m<sup>3</sup> -

Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Industry: 75 mg/m<sup>3</sup> - Worker Professional: 75 mg/m<sup>3</sup> - Consumer: 18.66 mg/m<sup>3</sup> -

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.

Compliant with EN 166

#### **Protection for skin:**

protective clothing

#### **Protection for hands:**

We recommend using rubber gloves.

Compliant with EN 374.

Thickness: Cuff 0.10 mm; Palm 0.12 mm; Fingers 0.145 mm

#### **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**

<b>Properties</b>	<b>Value</b>	<b>Method:</b>	<b>Notes:</b>
Physical state:	Liquid	--	--
Colour:	Black	--	--
Odour:	Characteristic	--	--
Melting point/freezing point:	N.A.	--	--
Boiling point or initial	N.A.	--	--

## Safety Data Sheet

### SEAL 5552 NERA



boiling point and boiling range:			
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/dm <sup>3</sup>	Internal method	--
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''-(ethenylsilyldyne)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''-(methylsilyldyne)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:

## Safety Data Sheet

### SEAL 5552 NERA



Test: oecd - Species: Generic Bacteria No  
g) reproductive toxicity:  
Test: oecd 6 - Route: Oral - Species: Rat noel 1000 mg/kg

- 11.2. Information on other hazards  
Endocrine disrupting properties:  
No endocrine disruptor substances present in concentration  $\geq 0.1\%$

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## 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''-(ethenylsilyldiyl)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''-(methylsilyldiyl)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''-(ethenylsilyldiyl)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''-(ethenylsilyldiyl)trioxime - CAS: 58190-62-8  
Test: BCF - Bioconcentration factor 69.21  
3-aminopropyltriethoxysilane - CAS: 919-30-2  
Bioaccumulation: OECD305 - Test: BCF - Bioconcentration 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  $\geq 0.1\%$   
12.7. Other adverse effects  
None

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## 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:  
"Use in accordance with good working practices, avoiding dispersal in the environment.  
Do not discharge into drains, ground water or water courses. Comply with current legislation on the protection of water and soil from pollution (Legislative Decree No. 152 of 3/4/2006)."



## Safety Data Sheet

### SEAL 5552 NERA



Dispose of used product and containers by handing them over to authorised companies, in accordance with the provisions of

Legislative Decree No. 152/2006 (Consolidated Environmental Act, which replaced the Ronchi Decree) as amended.

The used product is to be considered special waste to be classified in accordance with Directive No. 2008/98/EC on waste and related matters. Recover if possible. Send to authorised disposal plants or incineration under controlled conditions (152/2006 art. 184).

Act in accordance with the local and national laws in force.

Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal."

Contaminated packaging must be emptied as far as possible. After cleaning, send to an authorised centre for recycling or disposal.

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## 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-Environmental 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.

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## 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)



## Safety Data Sheet

### SEAL 5552 NERA



Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 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

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## 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

## Safety Data Sheet

### SEAL 5552 NERA



SECTION 5: Firefighting measures  
SECTION 6: Accidental release measures  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection  
SECTION 9: Physical and chemical properties  
SECTION 13: Disposal considerations

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.