

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Nowo Anti Graffiti Seal

Product no.

-

REACH registration number

Not applicable

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

Relevant identified uses of the substance or mixture

NA

Uses advised against

-

The full text of any mentioned and identified use categories are given in section 16

1.3. Details of the supplier of the safety data sheet

Company and address

NOWOCOAT INDUSTRIAL A/S

Staalvej 3

6000 Kolding

tlf: +45 7550 1111

mail@nowocoat.dk

Contact person

Annette Søgaard

E-mail

mail@nowocoat.dk

SDS date

21-08-18

SDS Version

1.0

1.4. Emergency telephone number

Contact The National Poisons Information Service (dial 111, 24 h service). See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Asp. Tox. 1; H304

Skin Sens. 1; H317

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

May be fatal if swallowed and enters airways. (H304)

May cause an allergic skin reaction. (H317)

Safety statement(s)

General	-
Prevention	Avoid breathing mist/vapours/fume/spray. (P261). Wear protective gloves/eye protection. (P280).
Response	IF SWALLOWED: Immediately call a POISON CENTER/doctor. Do NOT induce vomiting. (P301+P310+P331). If skin irritation or rash occurs: Get medical advice/attention. (P333+P313). Take off contaminated clothing and wash it before reuse. (P362+P364).
Storage	-
Disposal	-

Identity of the substances primarily responsible for the major health hazards

Naphtha (petroleum), hydrotreated heavy (< 0,1% benzene), N-butyl-N-((triethoxysilyl)methyl)butan-1-amine, Distillates (petroleum), hydrotreated light, N-(3-(trimethoxysilyl)propyl)ethylenediamine

2.3. Other hazards

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

This product contains an organic solvent. Repeated or prolonged exposure to organic solvents may result in adverse effects to the nervous system and internal organs such as liver and kidneys.

Additional labelling

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Additional warnings

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VOC

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SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	Naphtha (petroleum), hydrotreated heavy (< 0,1% benzene)
IDENTIFICATION NOS.:	CAS-no: 64742-48-9 EC-no: 265-150-3 Index-no: 649-327-00-6
CONTENT:	25-40%
CLP CLASSIFICATION:	Asp. Tox. 1 H304, EUH066
NOTE:	S
NAME:	Distillates (petroleum), hydrotreated light
IDENTIFICATION NOS.:	CAS-no: 64742-47-8 EC-no: 265-149-8 Index-no: 649-422-00-2
CONTENT:	5-10%
CLP CLASSIFICATION:	Asp. Tox. 1 H304
NOTE:	S
NAME:	N-butyl-N-((triethoxysilyl)methyl)butan-1-amine
IDENTIFICATION NOS.:	CAS-no: 35501-23-6 EC-no: 810-490-5
CONTENT:	5-10%
CLP CLASSIFICATION:	Skin sens. 1B H317
NAME:	N-(3-(trimethoxysilyl)propyl)ethylenediamine
IDENTIFICATION NOS.:	CAS-no: 1760-24-3 EC-no: 217-164-6
CONTENT:	<1%
CLP CLASSIFICATION:	Acute Tox. 4, Eye Dam. 1, Skin Sens. 1 H317, H318, H332

(*) See full text of H-phrases in chapter 16. Occupational exposure limits are listed in section 8, if these are available.

S = Organic solvent

Other information

ATEmix(inhale, vapour) > 20

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. The doctor can contact The National Poisons Information Service (dial 111, 24 h service). Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Bring the injured person into fresh air. Make sure the injured person is continuously monitored. If unconscious, roll the injured person into recovery position. Call an ambulance.

Skin contact

Remove contaminated clothing and shoes immediately. Ensure to wash exposed skin thoroughly with water and soap. Skin cleanser can be used. DO NOT use solvents or thinners.

Eye contact

Remove contact lenses. Flush eyes immediately with plenty of water or isotonic water (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure to flush under upper and lower eyelids. If irritation continues, contact a doctor. Continue flushing during transport.

Ingestion

In the case of ingestion, contact a doctor immediately and bring safety data sheet or label. If the person is conscious, give them water. DO NOT try to induce vomiting, unless this is recommended by a doctor. Hold head facing down to prevent vomit returning mouth and throat. Prevent shock by keeping the injured person warm and calm. Initiate immediate resuscitation if breathing stops. If unconscious, roll the injured person into recovery position. Call an ambulance.

Symptoms of chemical pneumonia can appear after several hours. People who have swallowed the product should therefore be kept under medical attention for at least 48 hours.

Burns

Not applicable.

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

This product contains substances that can cause chemical pneumonia if inhaled. The symptoms of chemical pneumonia may appear after several hours.

Sensitisation: This product contains substances, which may trigger allergic reaction upon dermal contact. Manifestation of allergic reactions typically takes place within 12-72 hours after exposure.

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

IF exposed or concerned: Get immediate medical advice/attention.

Information to medics

Bring this safety data sheet.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Recommended: alcohol-resistant foam, carbonic acid, powder, water mist. Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

No special.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact The National Poisons Information Service (dial 111, 24 h service) in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Avoid direct contact with spilled substances. Avoid inhalation of vapours from spilled material.

6.2. Environmental precautions

No specific requirements.

6.3. Methods and material for containment and cleaning up

Use sand, sawdust, earth, vermiculite, diatomaceous earth to contain and collect non-combustible absorbent materials and place in container for disposal, according to local regulations. To the extent possible cleaning is performed with normal cleaning agents. Avoid use of solvents.

6.4. Reference to other sections

See section on "Disposal considerations" in regard of handling of waste. See section on 'Exposure controls/personal protection' for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, storage of tobacco, consumption and storage of food or liquids are not allowed in the workrooms. See section on 'Exposure controls/personal protection' for information on personal protection. Avoid direct contact with the product.

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage.

Storage temperature

No data available.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

No substances are listed in The Control of Substances Hazardous to Health Regulations with an occupational exposure limit.

DNEL / PNEC

DNEL (N-(3-(trimethoxysilyl)propyl)ethylenediamine): 5 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers
DNEL (N-(3-(trimethoxysilyl)propyl)ethylenediamine): 17 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Short term – Systemic effects - General population

PNEC (N-(3-(trimethoxysilyl)propyl)ethylenediamine): 62 µg/L
Exposure: Freshwater
Duration of Exposure: Single
PNEC (N-(3-(trimethoxysilyl)propyl)ethylenediamine): 6.2 µg/L
Exposure: Marine water
Duration of Exposure: Single
PNEC (N-(3-(trimethoxysilyl)propyl)ethylenediamine): 620 µg/L
Exposure: Intermittent release
Duration of Exposure: Continuous
PNEC (N-(3-(trimethoxysilyl)propyl)ethylenediamine): 8.5 µg/kg soil dw
Exposure: Soil
Duration of Exposure: Single

8.2. Exposure controls

Control is unnecessary if the product is used as intended.

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

In the event exposure scenarios are appended to the safety data sheet, the operational conditions and risk management measures in these shall be complied with.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Apply standard precautions during use of the product. Avoid inhalation of gas or dust.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Always wash hands, forearms and face.

Measures to avoid environmental exposure

Keep damming materials near the workplace. If possible, collect spillage during work.

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

In case of insufficient ventilation, wear respiratory protective equipment. Recommended: A. Class 2 (medium capacity). Brown.

Skin protection

Wear appropriate protection clothing, e.g. coveralls in polypropylene approved type 6 and Category III.

Hand protection

Recommended: Polyvinyl alcohol (PVA). See the manufacturer's instructions.

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	No data available.
Odour	Aromatic
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm ³)	0,8-1

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.

Data on fire and explosion hazards

Flashpoint (°C)	>60
Ignition (°C)	No data available.
Self-ignition (°C)	No data available.
Explosion limits (Vol %)	No data available.

Solubility

Solubility in water	Insoluble
n-octanol/water coefficient	No data available.

9.2. Other information

Solubility in fat (g/L)	No data available.
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SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in the section "Handling and storage".

10.3. Possibility of hazardous reactions

No special.

10.4. Conditions to avoid

Do not expose to any forms of heat (e.g. solar radiation). May lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

The product is not degraded when used as specified in section 1.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Substance	Species	Test	Route of exposure	Result
N-(3-(trimethoxysilyl)propyl)e...	Rat	LD50	Oral	2574 mg/kg bw
N-(3-(trimethoxysilyl)propyl)e...	Rabbit	LD50	Dermal	2000 mg/kg
Distillates (petroleum), hydro...	Rat	LD50	Oral	5000 mg/kg bw
Distillates (petroleum), hydro...	Rabbit	LD50	Dermal	2000 mg/kg bw
Distillates (petroleum), hydro...	Rat	LC50	Inhalation	5.28 mg/L air (4 h)
Naphtha (petroleum), hydrotrea...	Rat	LD50	Oral	5000 mg/kg bw
Naphtha (petroleum), hydrotrea...	Rabbit	LD50	Dermal	2000 mg/kg bw

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitisation

May cause an allergic skin reaction.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

May be fatal if swallowed and enters airways.

Long term effects

Neurotoxic effects: This product contains organic solvents, which may cause adverse effects to the nervous system. Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer and may result in an increased absorption potential of other hazardous substances at the area of exposure.

SECTION 12: Ecological information**12.1. Toxicity**

Substance	Species	Test	Duration	Result
N-(3-(trimethoxysilyl)propyl)e...	Daphnia	EC50	48 h	81 mg/L
N-(3-(trimethoxysilyl)propyl)e...	Fish	LC50	96 h	597 mg/L
N-(3-(trimethoxysilyl)propyl)e...	Algae	EC50	72 h	5.5 - 8.8 mg/L
N-butyl-N-((triethoxysilyl)met...	Daphnia	LC50	48 h	4 mg/L
N-butyl-N-((triethoxysilyl)met...	Algae	EC50	72 h	4 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
N-(3-(trimethoxysilyl)propyl)e...	No	DOC Die-Away Test	39 %
N-butyl-N-((triethoxysilyl)met...	No	Manometric Respirometry Test	41 %
Distillates (petroleum), hydro...	Yes	Manometric Respirometry Test	61 %
Naphtha (petroleum), hydrotrea...	Yes	Manometric Respirometry Test	77,05 %

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
No data available.			

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

This product contains substances, which due to poor biodegradability, may cause adverse long-term effects to the aquatic environment,

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste.

Waste

EWC code

08 01 17*

wastes from paint or varnish removal containing organic solvents or other dangerous substances

Specific labelling

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Contaminated packing

Packaging containing residues of the product must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

Not dangerous goods according to ADR, IATA and IMDG.

ADR/RID

14.1. UN number -
14.2. UN proper shipping name -
14.3. Transport hazard class(es) -
14.4. Packing group -
Notes -
Tunnel restriction code -

IMDG

UN-no. -
Proper Shipping Name -
Class -
PG* -
EmS -
MP** -
Hazardous constituent -

IATA/ICAO

UN-no. -
Proper Shipping Name -
Class -
PG* -

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

No data available.

(*) Packing group

(**) Marine pollutant

SECTION 15: Regulatory information

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

Restrictions for application

People under the age of 18 shall not be exposed to this product cf. Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Pregnant women and women breastfeeding must not be exposed to this product. The risk, and possible technical precautions or design of the workplace needed to eliminate exposure, must be considered.

Demands for specific education

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Additional information

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Sources

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (CLP).
EC regulation 1907/2006 (REACH).

15.2. Chemical safety assessment

No.

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H304 - May be fatal if swallowed and enters airways.
H317 - May cause an allergic skin reaction.
H318 - Causes serious eye damage.
H332 - Harmful if inhaled.
EUH066 - Repeated exposure may cause skin dryness or cracking.

The full text of identified uses as mentioned in section 1

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Other symbols mentioned in section 2

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Other

In accordance with Regulation (EC) No. 1272/2008 (CLP) the evaluation of the classification of the mixture is based on:

The classification of the mixture in regard of health hazards are in accordance with the calculation methods given by Regulation (EC) No. 1272/2008 (CLP) It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification. The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products. A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a blue triangle.

The safety data sheet is validated by

Annette

Date of last essential change (First cipher in SDS version)

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Date of last minor change (Last cipher in SDS version)

-