

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Hardwax oil - Natural

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

Woodoil

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

Gl. Donsvej 6

6000 Kolding

tlf: +45 7550 1111

mail@nowocoat.dk

Contact person

Annette Søgaard

E-mail

mail@nowocoat.dk

SDS date

2016-03-31

SDS Version

1.0

1.4. Emergency telephone number

Use your national or local emergency number

See section 4 "First aid measures"

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Not classified according to Regulation (EC) No. 1272/2008 (CLP)

2.2. Label elements

Hazard pictogram(s)

-

Signal word

-

Hazard statement(s)

-

Safety statement(s)	General	-
	Prevention	-
	Response	-
	Storage	-
	Disposal	-

Identity of the substances primarily responsible for the major health hazards

-

2.3. Other hazards

This product contains a small amount of teratogenic substances, which can cause long-term damage to the human embryo.

The product contains a small amount of substances that can damage the reproductive system.

This product contains an organic solvent. Repeated exposure to organic solvents can result in damage to the nervous system and inner organs, such as the liver and kidneys.

Additional labelling

Contains Cobalt bis(2-ethylhexanoate). May produce an allergic reaction. (EUH208).

Safety data sheet available on request. (EUH210)

Additional warnings

-

VOC

VOC-MAX: 270 g/l, MAXIMUM VOC CONTENT (A/e (SB)): 400 g/l.

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
NOTE:	S
NAME:	Alkanes, C14-18
IDENTIFICATION NOS.:	CAS-no: 90622-47-2 EC-no: 292-449-6 REACH-no: 01-2119457736-27
CONTENT:	15-25%
CLP CLASSIFICATION:	Asp. Tox. 1 H304, EUH066
NAME:	Alkanes, C11-15-iso-
IDENTIFICATION NOS.:	CAS-no: 90622-58-5 EC-no: 292-460-6 REACH-no: 01-2119456810-40
CONTENT:	3-5%
CLP CLASSIFICATION:	Asp. Tox. 1 H304, EUH066
NAME:	1-Methoxypropan-2-ol
IDENTIFICATION NOS.:	CAS-no: 107-98-2 EC-no: 203-539-1 Index-no: 603-064-00-3
CONTENT:	1-3%
CLP CLASSIFICATION:	Flam. Liq. 3, STOT SE 3 H226, H336
NOTE:	S
NAME:	2-Ethylhexanoic acid, zirconium salt
IDENTIFICATION NOS.:	CAS-no: 22464-99-9 EC-no: 245-018-1
CONTENT:	<1%
CLP CLASSIFICATION:	Repr. 2 H361
NAME:	Cobalt bis(2-ethylhexanoate)
IDENTIFICATION NOS.:	CAS-no: 136-52-7 EC-no: 205-250-6
CONTENT:	<1%
CLP CLASSIFICATION:	Eye Irrit. 2, Skin Sens. 1, Repr. 2, Aquatic Acute 1, Aquatic Chronic 3 H317, H319, H361, H400, H412

(*) 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 informations

ATEmix(inhale, vapour) > 20

ATEmix(dermal) > 2000

ATEmix(oral) > 2000

N acute (CAT 1) Sum = Sum(Ci/M(acute))*25) = 0,00576 - 0,00864

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. Contact a doctor, if in doubt about the injured person's condition or if the symptoms continue. Never give an unconscious person water or similar.

Inhalation

Get the injured person into fresh air. Make sure there is always someone with the injured person. If unconscious, roll the injured person onto side with the top leg bent at both knee and hip. Call an ambulance.

Skin contact

Remove contaminated clothing and shoes at once. Skin that has come in contact with the material must be washed 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 (20-30°C) for at least 15 minutes and continue until irritation stops. Make sure you flush under the upper and lower eyelids. If irritation continues, contact a doctor.

Ingestion

Give the person plenty to drink and stay with the person. If the person feels unwell, contact a doctor immediately and take this safety data sheet or the label from the product with you. Do not induce vomiting unless recommended by the doctor. Hold head facing down so that no vomit runs back into the mouth and throat.

Burns

Not applicable.

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

Neurotoxic effect: Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

This product contains substances that may cause an allergic reaction in people who are already so disposed.

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

No special.

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. Water jets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

If the product is exposed to high temperatures, as in the case of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in thick black smoke. Exposure to catabolic products can damage your health. Fire fighters should use proper protection gear. Closed containers, which are exposed to fire, should be cooled with water. Do not let fire-extinguishing water run into sewers and other water courses.

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

No specific requirements.

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. Cleaning should be done as far as possible using normal cleaning agents. Solvents should be avoided.

6.4. Reference to other sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid static electricity. Protect electrical equipment in accordance with current norms. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools.

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

7.2. Conditions for safe storage, including any incompatibilities

Always store in containers of the same material as the original. 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 described in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

OEL

1-Methoxypropan-2-ol (EH40, 2005)

Long-term exposure limit (8-hour TWA reference period): 100 ppm | 375 mg/m³

Short-term exposure limit (15-minute reference period): 150 ppm | 560 mg/m³

Comments: Sk (Sk = Can be absorbed through skin.)

DNEL / PNEC

DNEL (2-Ethylhexanoic acid, zirconium salt): 5 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-Ethylhexanoic acid, zirconium salt): 15.75 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (2-Ethylhexanoic acid, zirconium salt): 2.5 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-Ethylhexanoic acid, zirconium salt): 7.9 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-Ethylhexanoic acid, zirconium salt): 7.9 mg/kg

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (Cobalt bis(2-ethylhexanoate)): 235 µg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - Workers

DNEL (Cobalt bis(2-ethylhexanoate)): 55,8 µg/kg

Exposure: Oral

Duration of Exposure: Long term – Systemic effects - General population

DNEL (Cobalt bis(2-ethylhexanoate)): 37 µg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Local effects - General population

DNEL (1-Methoxypropan-2-ol): 553,5 mg/m³

Exposure: Inhalation

Duration of Exposure: Short term – Local effects - Workers

DNEL (1-Methoxypropan-2-ol): 183 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-Methoxypropan-2-ol): 369 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - Workers

DNEL (1-Methoxypropan-2-ol): 78 mg/kg

Exposure: Dermal

Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-Methoxypropan-2-ol): 43,9 mg/m³

Exposure: Inhalation

Duration of Exposure: Long term – Systemic effects - General population

DNEL (1-Methoxypropan-2-ol): 33 mg/kg
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population
DNEL (1-Methoxypropan-2-ol): 553.5 mg/m³
Exposure: Inhalation
Duration of Exposure: Short term – Systemic effects - Workers

PNEC (2-Ethylhexanoic acid, zirconium salt): 0.36 mg/L
Exposure: Freshwater
Duration of Exposure: Single
PNEC (2-Ethylhexanoic acid, zirconium salt): 0.036 mg/L
Exposure: Marine water
Duration of Exposure: Single
PNEC (2-Ethylhexanoic acid, zirconium salt): 0.493 mg/L
Exposure: Intermittent release
Duration of Exposure: Continuous
PNEC (2-Ethylhexanoic acid, zirconium salt): 1.06 mg/kg
Exposure: Soil
Duration of Exposure: Single

PNEC (Cobalt bis(2-ethylhexanoate)): 10,9 mg/kg
Exposure: Soil
Duration of Exposure: Single
PNEC (Cobalt bis(2-ethylhexanoate)): 0,6 µg/l
Exposure: Freshwater
Duration of Exposure: Single
PNEC (Cobalt bis(2-ethylhexanoate)): 2,36 µg/l
Exposure: Marine water
Duration of Exposure: Single

PNEC (1-Methoxypropan-2-ol): 4.59 mg/kg
Exposure: Soil
Duration of Exposure: Single
PNEC (1-Methoxypropan-2-ol): 10 mg/l
Exposure: Freshwater
Duration of Exposure: Single
PNEC (1-Methoxypropan-2-ol): 1 mg/l
Exposure: Marine water
Duration of Exposure: Single
PNEC (1-Methoxypropan-2-ol): 100 mg/l
Exposure: Intermittent release
Duration of Exposure: Continuous

8.2. Exposure controls

Compliance with the stated exposure limits values should be checked on a regular basis.

General recommendations

Smoking, consumption of food or liquid, and storage of tobacco, food or liquid, are not allowed in the workroom.

Exposure scenarios

If there is an appendix to this safety data sheet, the indicated exposure scenarios must be complied.

Exposure limits

Trade users are covered by the rules of the working environment legislation on maximum concentrations for exposure. See work hygiene threshold values below.

Appropriate technical measures

Airborne gas and dust concentrations must be kept as low as possible and below the current threshold values (see below). Use for example an exhaust system if the normal air flow in the work room is not sufficient. Make sure that eyewash and emergency showers are clearly marked.

Hygiene measures

Whenever you take a break in using this product and when you have finished using it, all exposed areas of the body must be washed. Always wash hands, forearms and face.

Measures to avoid environmental exposure

No specific requirements.

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

Recommended: A. Class 2 (medium capacity). Brown.

Skin protection

Use suitable protective clothing, which is of EN-approved type 6 and Category III.

Hand protection

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

Eye protection

Use safety glasses with a side shield.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Liquid
Colour	Clear
Odour	No data available.
pH	No data available.
Viscosity	No data available.
Density (g/cm ³)	0,9-1,0

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)	>61
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 on "Handling and storage". Combustible at temperatures above the flash point.

10.3. Possibility of hazardous reactions

No special.

10.4. Conditions to avoid

Do not expose to heat (e.g. sunlight), because it can lead to excess pressure.

10.5. Incompatible materials

Strong acids, strong bases, strong oxidizing agents, and strong reductants 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
Cobalt bis(2-ethylhexanoate)	Rat	LD50	Oral	3129 mg/kg
Cobalt bis(2-ethylhexanoate)	Rat	LD50	Dermal	>2000 mg/kg
2-Ethylhexanoic acid, zirconiu...	Rat	LD50	Inhalation	> 5000 mg/kg
2-Ethylhexanoic acid, zirconiu...	Rat	LD50	Dermal	> 2000 mg/kg
1-Methoxypropan-2-ol	Guinea pig	LD50	Inhalation	< 6000 ppm
1-Methoxypropan-2-ol	Rat	LD50	Oral	4277 mg/kg
1-Methoxypropan-2-ol	Rat	LD50	Dermal	> 2000 mg/kg
Alkanes, C11-15-iso-	Rat	LD50	Oral	> 5000 mg/kg
Alkanes, C11-15-iso-	Rabbit	LD50	Dermal	> 5000 mg/kg
Alkanes, C11-15-iso-	Rat	LC50	Inhalation	> 5000 mg/l
Alkanes, C14-18	Rat	LD50	Oral	> 5000 mg/kg
Naphtha (petroleum), hydrotrea...	Rat	LD50	Oral	> 5000 mg/kg
Naphtha (petroleum), hydrotrea...	Rabbit	LD50	Dermal	> 2000 mg/kg
Naphtha (petroleum), hydrotrea...	Rat	LC50	Inhalation	> 7630 mg/kg

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitisation

This product contains substances that may cause an allergic reaction in people who are already so disposed.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

This product contains a small amount of teratogenic substances, which can cause long-term damage to the human embryo.

The product contains a small amount of substances that can damage the reproductive system.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

Long term effects

Neurotoxic effect: Repeated exposure to solvents can result in the breaking down of the skin's natural fat layer. The skin will then be more prone to absorb dangerous substances, e.g. allergens.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Species	Test	Duration	Result
Cobalt bis(2-ethylhexanoate)	Fish	LC50	96 h	275 mg/l
Cobalt bis(2-ethylhexanoate)	Algae	EC50	72 h	283,1 µg/l
2-Ethylhexanoic acid, zirconiu...	Daphnia	EC50	48 h	> 0.17 mg/L
2-Ethylhexanoic acid, zirconiu...	Fish	LC50	96 h	> 100 mg/L
2-Ethylhexanoic acid, zirconiu...	Algae	EC50	72 h	49.3 mg/L
1-Methoxypropan-2-ol	Daphnia	LC50	48 h	21100 - 25900 mg/L
1-Methoxypropan-2-ol	Fish	LC50	96 h	20800 mg/L
1-Methoxypropan-2-ol	Algae	EC50	72 h	6745 mg/L
Alkanes, C14-18	Daphnia	LC50	48 h	0,0022 mg/L
Naphtha (petroleum), hydrotrea...	Fish	LC50	48 h	5,4 mg/l
Naphtha (petroleum), hydrotrea...	Algae	EC50	96 h	64 mg/l

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Cobalt bis(2-ethylhexanoate)	Yes	CO2 Evolution Test	60 %
2-Ethylhexanoic acid, zirconiu...	Yes	CO2 Evolution Test	73,82 %
1-Methoxypropan-2-ol	Yes	Modified OECD Screening Test	96%
Alkanes, C14-18	Yes	CO2 Evolution Test	80 %
Naphtha (petroleum), hydrotrea...	Yes	Manometric Respirometry Test	77,05 %

12.3. Bioaccumulative potential

According to EC-Regulation 1907/2006 (REACH)

Substance	Potential bioaccumulation	LogPow	BCF
1-Methoxypropan-2-ol	No	-0,437	No data available
Alkanes, C14-18	Yes	7,22	No data available

12.4. Mobility in soil

1-Methoxypropan-2-ol: Log Koc= -0,2676603, Calculated from LogPow ().
Alkanes, C14-18: Log Koc= 5,795918, Calculated from LogPow (Low mobility potential.).

12.5. Results of PBT and vPvB assessment

No data available.

12.6. Other adverse effects

This product contains ecotoxic substances which can have damaging effects on water-organisms. This product contains substances which can cause undesirable long-term effects in the water environment, due to its poor biodegradability. This product contains substances which can accumulate in the food chain because they are bioaccumulative substances. Bioaccumulative substances can accumulate in fat tissue and are not easily secreted.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

This product is not covered by the regulations on dangerous waste.

Waste

EWC code
08 01 12

Specific labelling

-

Contaminated packing

No specific requirements.

SECTION 14: Transport information

14.1 – 14.4

Not listed as dangerous goods under ADR and IMDG regulations.

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 must not be exposed to this product cf. Council Directive 94/33/EC.

Demands for specific education

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Additional information

Contains Cobalt bis(2-ethylhexanoate). May produce an allergic reaction. (EUH208).

Safety data sheet available on request. (EUH210)

VOC-MAX: 270 g/l, MAXIMUM VOC CONTENT (A/e (SB)): 400 g/l.

Sources

COUNCIL DIRECTIVE 92/85/EEC on the introduction of measures to encourage improvements in the safety and health at work of pregnant workers and workers who have recently given birth or are breastfeeding.

Council Directive 94/33/EC of 22 June 1994 on the protection of young people at work.

Directive 2004/42/CE of the European Parliament and of the Council of 21 April 2004 on the limitation of emissions of volatile organic compounds due to the use of organic solvents in certain paints and varnishes and vehicle refinishing products and amending Directive 1999/13/EC.

The Control of Substances Hazardous to Health Regulations 2002. SI 2002/2677 The Stationery Office 2002

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

H226 - Flammable liquid and vapour.

H304 - May be fatal if swallowed and enters airways.

H317 - May cause an allergic skin reaction.

H319 - Causes serious eye irritation.

H336 - May cause drowsiness or dizziness.

H361 - Suspected of damaging fertility or the unborn child.

H400 - Very toxic to aquatic life.

H412 - Harmful to aquatic life with long lasting effects.

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

-

Other

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)) is marked with a blue triangle.

The safety data sheet is validated by

Annette

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

-

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

-