

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name

Garden furniture oil spray

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

Spray paint

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

2017-10-05

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

Aerosol 1; H222, H229

Aquatic Chronic 3; H412

EUH066, EUH208

See full text of H-phrases in section 2.2.

2.2. Label elements

Hazard pictogram(s)**Signal word**

Danger

Hazard statement(s)

Extremely flammable aerosol. (H222)
 Pressurised container: May burst if heated. (H229)
 Harmful to aquatic life with long lasting effects. (H412)
 Repeated exposure may cause skin dryness or cracking. (EUH066)
 Contains Propiconazole, Cobalt bis(2-ethylhexanoate), 3-Iodo-2-propynyl butylcarbamate (IPBC). May produce an allergic reaction. (EUH208).

Safety statement(s)

General If medical advice is needed, have product container or label at hand. (P101).
 Keep out of reach of children. (P102).
Prevention Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
 No smoking. (P210).
 Do not pierce or burn, even after use. (P251).
Response -
Storage Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.
 (P410+P412).
Disposal Dispose of contents/container to an approved waste disposal plant. (P501).

Identity of the substances primarily responsible for the major health hazards

Not applicable

2.3. Other hazards

This product contains a small amount of teratogenic substances, which may cause long-term adverse effects to the unborn foetus.
 This product contains a small amount of substances that may cause adverse effects to the reproductive system.
 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

-

Additional warnings

Not applicable

VOC

Not applicable

SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

NAME:	Alkanes, C14-18
IDENTIFICATION NOS.:	EC-no: 927-632-8 REACH-no: 01-2119457736-27
CONTENT:	25-40%
CLP CLASSIFICATION:	Asp. Tox. 1 H304, EUH066
NAME:	propane
IDENTIFICATION NOS.:	CAS-no: 74-98-6 EC-no: 200-827-9 Index-no: 601-003-00-5
CONTENT:	15 - <25%
CLP CLASSIFICATION:	Flam. Gas 1, Press. Gas. H220, H280
NAME:	Butane
IDENTIFICATION NOS.:	CAS-no: 106-97-8 EC-no: 203-448-7 Index-no: 601-004-00-0
CONTENT:	15 - <25%
CLP CLASSIFICATION:	Flam. Gas 1, Press. Gas. H220, H280
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:	1 - <2.5%
CLP CLASSIFICATION:	Asp. Tox. 1 H304, EUH066
NOTE:	S
NAME:	2-Ethylhexanoic acid, zirconium salt
IDENTIFICATION NOS.:	CAS-no: 22464-99-9 EC-no: 245-018-1
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Repr. 2 H361

NAME:	Propiconazole
IDENTIFICATION NOS.:	CAS-no: 60207-90-1 EC-no: 262-104-4 Index-no: 613-205-00-0
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Acute Tox. 4, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 H302, H317, H400, H410
NAME:	Cobalt bis(2-ethylhexanoate)
IDENTIFICATION NOS.:	CAS-no: 136-52-7 EC-no: 205-250-6
CONTENT:	0.25 - <1%
CLP CLASSIFICATION:	Eye Irrit. 2, Skin Sens. 1, Repr. 2, Aquatic Acute 1, Aquatic Chronic 3 H317, H319, H361, H400, H412
NAME:	3-Iodo-2-propynyl butylcarbamate (IPBC)
IDENTIFICATION NOS.:	CAS-no: 55406-53-6 EC-no: 259-627-5 Index-no: 616-212-00-7
CONTENT:	0.1 - <0.25%
CLP CLASSIFICATION:	Acute Tox. 3, Acute Tox. 4, STOT RE 1, Eye Dam. 1, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1 H302, H317, H318, H331, H372, H400, H410

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

S = Organic solvent

Other information

ATEmix(inhale, vapour) > 20

ATEmix(inhale, dust/mist) > 20

ATEmix(oral) > 2000

N chronic (CAT 3) Sum = $\sum(Ci/(M(\text{chronic})^i * 25) * 0.1 * 10^{\wedge} \text{CATi}) = 4,0656 - 6,0984$

N acute (CAT 1) Sum = $\sum(Ci/M(\text{acute})^i * 25) = 0,1056544 - 0,1584816$

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 person into fresh air and stay with him.

Skin contact

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

Eye contact

Remove contact lenses and open eyes widely. Flush eyes with water or saline water(20-30°C) for at least 15 minutes. Seek medical assistance and continue flushing during transport.

Ingestion

Provide plenty of water for the person to drink and stay with him/her. In case of malaise, seek medical advice immediately and bring the safety data sheet or label from the product. Do not induce vomiting, unless recommended by the doctor. Have the victim lean forward with head down to avoid inhalation of- or choking on vomited material.

Burns

Rinse with water until the pain stops then continue to rinse for a further 30 minutes.

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

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.

This product contains substances that may trigger an allergic reaction to predisposed persons.

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

Nothing 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. Waterjets 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, e.g. in the event of fire, dangerous catabolic substances are produced. These are: Carbon oxides. Fire will result in dense black smoke. Exposure to combustion products may harm your health. Fire fighters should wear appropriate protection equipment. Closed containers, which are exposed to fire, should be cooled with water. Do not allow fire-extinguishing water to enter the sewage system and nearby surface waters.

5.3. Advice for firefighters

No specific requirements.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

6.2. Environmental precautions

Avoid discharge to lakes, streams, sewers, etc. In the event of leakage to the surroundings, contact local environmental authorities. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment.

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. It is recommended to install waste collection trays to prevent emissions to the waste water system and surrounding environment. 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 container. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

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

Cobalt bis(2-ethylhexanoate)

Long-term exposure limit (8-hour TWA reference period): - ppm | 0,1 mg/m³

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

Comments: Sen (Sen = Capable of causing respiratory sensitisation.)

DNEL / PNEC

DNEL (Cobalt bis(2-ethylhexanoate)): 235.1 µg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - Workers
DNEL (Cobalt bis(2-ethylhexanoate)): 37 µg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Local effects - General population
DNEL (Cobalt bis(2-ethylhexanoate)): 55.8 µg/kg bw/day
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

DNEL (2-Ethylhexanoic acid, zirconium salt): 32 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - Workers
DNEL (2-Ethylhexanoic acid, zirconium salt): 6.49 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - Workers
DNEL (2-Ethylhexanoic acid, zirconium salt): 8 mg/m³
Exposure: Inhalation
Duration of Exposure: Long term – Systemic effects - General population
DNEL (2-Ethylhexanoic acid, zirconium salt): 3.25 mg/kg bw/day
Exposure: Dermal
Duration of Exposure: Long term – Systemic effects - General population
DNEL (2-Ethylhexanoic acid, zirconium salt): 2.5 mg/kg bw/day
Exposure: Oral
Duration of Exposure: Long term – Systemic effects - General population

PNEC (Cobalt bis(2-ethylhexanoate)): 600 ng/L
Exposure: Freshwater
Duration of Exposure: Single
PNEC (Cobalt bis(2-ethylhexanoate)): 2.36 µg/L
Exposure: Marine water
Duration of Exposure: Single
PNEC (Cobalt bis(2-ethylhexanoate)): 10.9 mg/kg soil dw
Exposure: Soil
Duration of Exposure: Single

PNEC (2-Ethylhexanoic acid, zirconium salt): 360 µg/L
Exposure: Freshwater
Duration of Exposure: Single
PNEC (2-Ethylhexanoic acid, zirconium salt): 36 µg/L
Exposure: Marine water
Duration of Exposure: Single
PNEC (2-Ethylhexanoic acid, zirconium salt): 493 µg/L
Exposure: Intermittent release
Duration of Exposure: Continuous
PNEC (2-Ethylhexanoic acid, zirconium salt): 1.06 mg/kg soil dw
Exposure: Soil
Duration of Exposure: Single

8.2. Exposure controls

Compliance with the accepted occupational exposure limits values should be controlled on a regular basis.

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

Professional users are subjected to the legally set maximum concentrations for occupational exposure. See occupational hygiene limit values above.

Appropriate technical measures

Airborne gas and dust concentrations must be kept at a minimum and below current limit values (see above). Installation of an exhaust system if normal air flow in the work room is not sufficient is recommended. Ensure emergency eyewash and -showers are clearly marked.

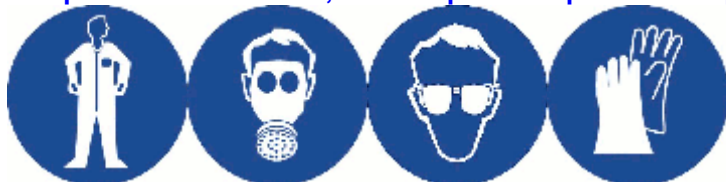
Hygiene measures

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

No specific requirements.

Individual protection measures, such as personal protective equipment



Generally

Use only CE marked protective equipment.

Respiratory Equipment

Recommended: AX. Brown.

Skin protection

Wear appropriate protection clothing, e.g. coveralls in polypropylene or working clothes in cotton or polyester. Chemical resistant suit with helmet/hood (Type 4, 5, 6 Category III) is recommended for spray applications.

Hand protection

Recommended: Nitrile rubber.

Eye protection

Wear safety glasses with side shields.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	Aerosol
Colour	Various colours
Odour	No data available.
Odour threshold (ppm)	No data available.
pH	No data available.
Viscosity (40°C)	No data available.
Density (g/cm ³)	0,8-0,95

Phase changes

Melting point (°C)	No data available.
Boiling point (°C)	No data available.
Vapour pressure	No data available.
Decomposition temperature (°C)	No data available.
Evaporation rate (n-butylacetate = 100)	No data available.

Data on fire and explosion hazards

Flash point (°C)	No data available.
Ignition (°C)	No data available.
Auto flammability (°C)	No data available.
Explosion limits (% v/v)	No data available.
Explosive properties	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

Nothing special.

10.4. Conditions to avoid

Avoid static electricity. 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
3-Iodo-2-propynyl butylcarbama...	Rat	LD50	Inhalation	0,67 mg/L
Cobalt bis(2-ethylhexanoate)	Rat	LD50	Oral	3129 mg/kg bw
Cobalt bis(2-ethylhexanoate)	Rat	LD50	Dermal	2000 mg/kg bw
2-Ethylhexanoic acid, zirconi...	Rat	LD50	Inhalation	2043 - 5000 mg/kg bw
2-Ethylhexanoic acid, zirconi...	Rat	LD50	Dermal	2000 mg/kg bw
Naphtha (petroleum), hydrotrea...	Rat	LD50	Oral	5000 mg/kg bw
Naphtha (petroleum), hydrotrea...	Rabbit	LD50	Dermal	2000 mg/kg bw
Butane / Propane	Guinea pig	LC50	Inhalation	1237 mg/L air
Alkanes, C14-18	Rat	LD50	Oral	5000 mg/kg bw
Alkanes, C14-18	Rabbit	LD50	Dermal	3160 mg/kg bw
Alkanes, C14-18	Rat	LC50	Inhalation	5.266 mg/L air (4 h)

Skin corrosion/irritation

No data available.

Serious eye damage/irritation

No data available.

Respiratory or skin sensitisation

This product contains substances that may trigger an allergic reaction to predisposed persons.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

This product contains a small amount of teratogenic substances, which may cause long-term adverse effects to the unborn foetus.

This product contains a small amount of substances that may cause adverse effects to the reproductive system.

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

No data available.

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
Cobalt bis(2-ethylhexanoate)	Daphnia	EC50	48 h	2.618 - 5.89 mg/L
Cobalt bis(2-ethylhexanoate)	Fish	LC50	96 h	1.512 - 85.3 mg/L
Cobalt bis(2-ethylhexanoate)	Algae	EC50	72 h	144 µg/L
2-Ethylhexanoic acid, zirconi...	Daphnia	EC50	48 h	170 µg/L
2-Ethylhexanoic acid, zirconi...	Fish	LC50	96 h	100 mg/L
2-Ethylhexanoic acid, zirconi...	Algae	EC50	72 h	42 µg/L
Butane / Propane	Daphnia	LC50	48 h	14.22 mg/L
Butane / Propane	Fish	LC50	96 h	27.98 mg/L
Butane / Propane	Algae	EC50	96 h	7.71 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Cobalt bis(2-ethylhexanoate)	Yes	CO2 Evolution Test	>60 %
2-Ethylhexanoic acid, zirconi...	Yes	CO2 Evolution Test	73,82 %
Naphtha (petroleum), hydrotrea...	Yes	Manometric Respirometry Test	77,05 %
Butane / Propane	Yes	No data available	100 %
Alkanes, C14-18	Yes	Manometric Respirometry Test	82 %

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow	BCF
Butane / Propane	No	1,09	No data available

12.4. Mobility in soil

Alkanes, C9-12-iso-: Log Koc= 0,941571, Calculated from LogPow (High mobility potential.).
propane: Log Koc= 0,941571, Calculated from LogPow (High mobility potential.).

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances considered to meet the criteria classifying them as PBT and/or vPvB.

12.6. Other adverse effects

This product contains substances that are toxic to the environment. May result in adverse effects to aquatic organisms.

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 11*

waste paint and varnish containing organic solvents or other dangerous substances

Specific labelling

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Contaminated packing

Contaminated packaging must be disposed of similarly to the product.

SECTION 14: Transport information

14.1 – 14.4

This product is within scope of the regulations of transport of dangerous goods.

ADR/RID

14.1. UN number	1950
14.2. UN proper shipping name	AEROSOLS
14.3. Transport hazard class(es)	2
14.4. Packing group	-
Notes	-
Tunnel restriction code	-

IMDG

UN-no.	1950
Proper Shipping Name	AEROSOLS
Class	2
PG*	-
EmS	-
MP**	-
Hazardous constituent	-

IATA/ICAO

UN-no.	1950
Proper Shipping Name	AEROSOLS
Class	2
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

Sources

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

Council Directive 75/324/EEC of 20 May 1975 on the approximation of the laws of the Member States relating to aerosol dispensers.

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

H220 - Extremely flammable gas.

H280 - Contains gas under pressure; may explode if heated.

H302 - Harmful if swallowed.

H304 - May be fatal if swallowed and enters airways.

H317 - May cause an allergic skin reaction.

H318 - Causes serious eye damage.

H319 - Causes serious eye irritation.

H331 - Toxic if inhaled.

H361 - Suspected of damaging fertility or the unborn child.

H372 - Causes damage to organs through prolonged or repeated exposure.

H400 - Very toxic to aquatic life.

H410 - Very toxic to aquatic life with long lasting effects.

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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Additional label elements



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 physical hazards has been based on experimental data.

The classification of the mixture in regard of environmental 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.

According to EC-Regulation 2015/830

The safety data sheet is validated by

Annette

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

2017-09-20

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

2017-09-20

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