Nelfamar SD Coating

Safety Data Sheet

according to the REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878
Issue date: 9/8/2006 Revision date: 12/18/2025 Supersedes version of: 12/8/2025 Version: 11.1

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

1.1. Product identifier

Product form : Mixture
Product name : Nelfamar SD Coating
Product code : F.0770
Product group : Recipe

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

Relevant identified uses

Intended for general public
Main use category : Consumer use,Professional use
Industrial/Professional use spec : Wide dispersive use
Use of the substance/mixture : Fast Drying, weatherr resistant anti corrosion paint
Function or use category : Coatings and paints, thinners, paint removers

1.3. Details of the supplier of the safety data sheet

Manufacturer
Nelf Marine Paints B.V.
Nieuweweg 5
NL 9073 GN Marrum, Fryslân
Nederland
T +31 (0)518 - 418 000
info@nelfmarine.nl, www.nelfmarine.nl

1.4. Emergency telephone number

Country/Area	Organisation/Company	Address	Emergency number	Comment
Netherlands	Nationaal Vergiftigingen Informatie Centrum (NVIC)	Huispostnummer Q03.2.315 Postbus 85500 3508 GA Utrecht	+31 88 755 80 00	Only for the purpose of informing medical personnel in cases of acute intoxications (24 hours a day, 7 days a week)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Flammable liquids, Category 3 H226
Hazardous to the aquatic environment – Chronic Hazard, Category 2 H411
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Toxic to aquatic life with long lasting effects.

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :

GHS02 GHS09

CLP Signal word	:	Warning
Hazard statements (CLP)	:	H226 - Flammable liquid and vapour. H411 - Toxic to aquatic life with long lasting effects.
Precautionary statements (CLP)	:	P102 - Keep out of reach of children. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P391 - Collect spillage. P501 - Dispose of contents and container to Collection point.
EUH-statements	:	EUH066 - Repeated exposure may cause skin dryness or cracking.
Child-resistant fastening	:	Not applicable
Tactile warning	:	Not applicable

2.3. Other hazards

PBT: not yet assessed
vPvB: not yet assessed
Contains no PBT and/or vPvB substances ≥ 0.1% assessed in accordance with REACH Annex XIII

Component	
PBT: not relevant – no registration required	Amorphous silicon dioxide (7631-86-9)

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or substance(s) are not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics substance with national workplace exposure limit(s) (PL); substance with a Community workplace exposure limit	CAS-No.: 64742-48-9 EC-No.: 918-481-9 EC Index-No.: 649-327-00-6 REACH-no: 01-2119457273-39	25 – 50	Asp. Tox. 1, H304 EUH066
CI Pigment White 6 substance with national workplace exposure limit(s) (DE, FR, GB, PL, RO, SK)	CAS-No.: 13463-67-7 EC-No.: 236-675-5 EC Index-No.: 022-006-00-2 REACH-no: 01-2119489379-17	10 – 25	Not classified
Talc substance with national workplace exposure limit(s) (GB, NL, PL, RO)	CAS-No.: 14807-96-6 EC-No.: 238-877-9	3 – 5	Not classified
trizinc bis(orthophosphate)	CAS-No.: 7779-90-0 EC-No.: 231-944-3 EC Index-No.: 030-011-00-6 REACH-no: 01-2119485044-40	3 – 5	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha substance with national workplace exposure limit(s) (DE, PL); substance with a Community workplace exposure limit	CAS-No.: 64742-48-9 EC-No.: 265-150-3 EC Index-No.: 649-327-00-6 REACH-no: 01-2119457273-39	1 – 2.5	Asp. Tox. 1, H304 EUH066

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
1-methoxy-2-propanol; monopropylene glycol methyl ether substance with national workplace exposure limit(s) (BE, CZ, DE, FR, GB, NL, PL, RO, SK, RS); substance with a Community workplace exposure limit	CAS-No.: 107-98-2 EC-No.: 203-539-1 EC Index-No.: 603-064-00-3 REACH-no: 01-2119457435-35	0.5 – 1	Flam. Liq. 3, H226 STOT SE 3, H336
zinc oxide substance with national workplace exposure limit(s) (CZ, FR, PL, RO, SK)	CAS-No.: 1314-13-2 EC-No.: 215-222-5 EC Index-No.: 030-013-00-7 REACH-no: 01-2119463881-32	0.5 – 1	Aquatic Acute 1, H400 Aquatic Chronic 1, H410
Amorphous silicon dioxide substance with national workplace exposure limit(s) (DE)	CAS-No.: 7631-86-9 EC-No.: 231-545-4 REACH-no: 01-2119379499-16	0.1 – 0.3	Not classified
Dioctyl sodium sulfosuccinate substance with national workplace exposure limit(s) (RO)	CAS-No.: 577-11-7 EC-No.: 209-406-4 REACH-no: 01-2119491296-29	0.05 – 0.1	Skin Irrit. 2, H315 Eye Dam. 1, H318
Aluminium oxide (Al2O3) substance with national workplace exposure limit(s) (DE, FR, GB, PL, RO, SK)	CAS-No.: 1344-28-1 EC-No.: 215-691-6	0.05 – 0.1	Not classified
Dipropylene glycol monomethyl ether, mixture of isomers substance with national workplace exposure limit(s) (CZ, DE, FR, GB, NL, PL, RO, SK, RS); substance with a Community workplace exposure limit	CAS-No.: 34590-94-8 EC-No.: 252-104-2	0.05 – 0.1	Not classified
2-methylpentane-2,4-diol substance with national workplace exposure limit(s) (DE, FR, GB, PL)	CAS-No.: 107-41-5 EC-No.: 203-489-0 EC Index-No.: 603-053-00-3	0.01 – 0.036	Eye Irrit. 2, H319 Skin Irrit. 2, H315
Zirconium dioxide substance with national workplace exposure limit(s) (DE)	CAS-No.: 1314-23-4 EC-No.: 215-227-2	0.01 – 0.036	Not classified

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general : If you feel unwell, seek medical advice.
First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
First-aid measures after skin contact : Rinse skin with water/shower. Take off immediately all contaminated clothing.
First-aid measures after eye contact : Rinse eyes with water as a precaution.
First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.
Self protection of the first-aider : First aid workers will be equipped with suitable personal protective equipment.

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

Symptoms/effects after inhalation : None under normal conditions.
Symptoms/effects after skin contact : Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact : None under normal conditions.
Symptoms/effects after ingestion : None under normal conditions.

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

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	:	Water spray. Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media	:	Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	:	Flammable liquid and vapour.
Explosion hazard	:	No direct explosion hazard.
Hazardous decomposition products in case of fire	:	Toxic fumes may be released.

5.3. Advice for firefighters

Firefighting instructions	:	Fight fire from safe distance and protected location. Do not enter fire area without proper protective equipment, including respiratory protection.
Protection during firefighting	:	Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures	:	Stop leak if safe to do so. Notify authorities if product enters sewers or public waters. Absorb spillage to prevent material damage.

For non-emergency personnel

Protective equipment	:	Wear recommended personal protective equipment.
Emergency procedures	:	Ventilate spillage area. No open flames, no sparks, and no smoking.

For emergency responders

Protective equipment	:	Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
Emergency procedures	:	Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment	:	Collect spillage. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. Stop leak without risks if possible.
Methods for cleaning up	:	Take up liquid spill into absorbent material. Notify authorities if product enters sewers or public waters.
Other information	:	Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	:	Not expected to present a significant hazard under anticipated conditions of normal use.

Precautions for safe handling : Ensure good ventilation of the work station. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Ground/bond container and receiving equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.

Storage conditions : Store in a well-ventilated place. Keep cool. Keep container tightly closed.

Packaging materials : Always store product in container of same material as original container.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

National occupational exposure and biological limit values

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	White spirit Type 3
IOEL TWA	116 mg/m³
	20 ppm
IOEL STEL	290 mg/m³
	50 ppm
Remark	skin. SCOEL Recommendations (2007)
Regulatory reference	SCOEL Recommendations

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	1-Methoxypropanol-2
IOEL TWA	375 mg/m³
	100 ppm
IOEL STEL	568 mg/m³
	150 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Netherlands - Occupational Exposure Limits	
Local name	1-Methoxy-2-propanol
TGG-8u (OEL TWA)	375 mg/m³
	100 ppm
TGG-15min (OEL STEL)	563 mg/m³
	150 ppm

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Remark	H (Huidopname) Stoffen die relatief gemakkelijk door de huid kunnen worden opgenomen, hetgeen een substantiële bijdrage kan betekenen aan de totale inwendige blootstelling, hebben in de lijst een Haanduiding. Bij deze stoffen moeten naast maatregelen tegen inademing ook adequate maatregelen ter voorkoming van huidcontact worden genomen.
Regulatory reference	Arbeidsomstandighedenregeling 2024

Talc (14807-96-6)	
Netherlands - Occupational Exposure Limits	
Local name	Talk
TGG-8u (OEL TWA)	0.25 mg/m³ (respirabel)
Regulatory reference	Arbeidsomstandighedenregeling 2024

zinc oxide (1314-13-2)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Zinc oxide
Remark	SCOEL Recommendations (Ongoing)

CI Pigment White 6 (13463-67-7)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	Titanium dioxide
Remark	SCOEL Recommendations (Ongoing)

Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha (64742-48-9)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	White spirit Type 3
IOEL TWA	116 mg/m³
	20 ppm
IOEL STEL	290 mg/m³
	50 ppm
Remark	skin. SCOEL Recommendations (2007)
Regulatory reference	SCOEL Recommendations

Dipropylene glycol monomethyl ether, mixture of isomers (34590-94-8)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	(2-Methoxymethylethoxy)-propanol
IOEL TWA	308 mg/m³
	50 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Netherlands - Occupational Exposure Limits	
Local name	Dipropyleenglycolmethylether
TGG-8u (OEL TWA)	300 mg/m³
	48.7 ppm
Regulatory reference	Arbeidsomstandighedenregeling 2024

8.2. Exposure controls

Appropriate engineering controls

Appropriate engineering controls:
Ensure good ventilation of the work station.

Personal protection equipment

Personal protective equipment:
Wear recommended personal protective equipment.
Personal protective equipment symbol(s):

Eye and face protection

Eye protection:
Safety glasses

Eye protection			
Type	**Field of application**	**Characteristics**	**Standard**
Safety glasses			

Skin protection

Skin and body protection:
Wear suitable protective clothing

Skin and body protection	
Type	**Standard**
Tyvek® Gown/Coveralls	

Hand protection:
Protective gloves

Hand protection					
Type	**Material**	**Permeation**	**Thickness (mm)**	**Penetration**	**Standard**
Reusable gloves	Nitrile rubber (NBR)	6 (> 480 minutes)	> 0,1 mm	2 (< 1.5)	EN ISO 374

Respiratory protection

Respiratory protection:
In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection			
Device	**Filter type**	**Condition**	**Standard**
Reusable half mask	Type P2	Dust protection	EN 143
Reusable half mask	Filter A2/B2	Vapour protection	EN 143

Environmental exposure controls

Environmental exposure controls:
Avoid release to the environment.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	:	Liquid
Colour	:	Blue. brown. Yellow. Grey. Green. Purple. red. pink. Violet. white. Black.
Odour	:	characteristic.
Odour threshold	:	Not available
Melting point	:	Not applicable
Freezing point	:	Not available
Boiling point	:	≥ 100 °C
Flammability	:	Flammable liquid and vapour.
Lower explosion limit	:	1 Vol-%
Upper explosion limit	:	7 Vol-%
Flash point	:	40 (≥ 40) °C
Auto-ignition temperature	:	Not available
Decomposition temperature	:	Not available
pH	:	Not available
Viscosity, kinematic	:	815.661 – 1223.491 mm²/s
Viscosity, dynamic	:	1000 (1000 – 1500) mPa·s
Solubility	:	Not miscible.
Partition coefficient n-octanol/water (Log Kow)	:	Not available
Vapour pressure	:	Not available
Vapour pressure at 50°C	:	Not available
Density	:	1.226 kg/l
Relative density	:	Not available
Relative vapour density at 20°C	:	Not available
Particle characteristics	:	Not applicable

9.2. Other information

Other safety characteristics

VOC content	:	459 g/l

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Avoid contact with hot surfaces. Heat. No flames, no sparks. Eliminate all sources of ignition.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 4.951 mg/l/4h

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
LD50 oral rat	4016 (2000 – 5000) mg/kg
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: EU Method B.3 (Acute Toxicity (Dermal))
LD50 dermal rabbit	> 2000 mg/kg
LC50 Inhalation - Rat (Vapours)	> 25.8 mg/l/4h

Dioctyl sodium sulfosuccinate (577-11-7)	
LD50 dermal rabbit	> 10000 mg/kg bodyweight Animal: rabbit, Animal sex: male, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)

Talc (14807-96-6)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 423 (Acute Oral toxicity - Acute Toxic Class Method)
LD50 dermal rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LC50 Inhalation - Rat	> 2.1 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity), Guideline: EU Method B.2 (Acute Toxicity (Inhalation)), Guideline: EPA OPPTS 870.1300 (Acute inhalation toxicity)

zinc oxide (1314-13-2)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rat	> 2000 mg/kg
LC50 Inhalation - Rat	> 5.7 mg/l

CI Pigment White 6 (13463-67-7)	
LD50 oral rat	> 5000 mg/kg bodyweight Animal: rat, Animal sex: female, Guideline: OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure), Guideline: EPA OPPTS 870.1100 (Acute Oral Toxicity)

Amorphous silicon dioxide (7631-86-9)	
LD50 oral rat	≥ 5000 mg/kg
LD50 dermal rabbit	≥ 5000 mg/kg

trizinc bis(orthophosphate) (7779-90-0)	
LD50 oral rat	> 5000 mg/kg
LC50 Inhalation - Rat	> 5.7 mg/l/4h

Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha (64742-48-9)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 Inhalation - Rat	> 5000 mg/m³

2-methylpentane-2,4-diol (107-41-5)	
LD50 oral rat	3700 mg/kg
LD50 dermal rabbit	7890 mg/kg

Dipropylene glycol monomethyl ether, mixture of isomers (34590-94-8)	
LD50 oral rat	5140 mg/kg
LD50 dermal rat	> 19020 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 402 (Acute Dermal Toxicity)
LD50 dermal rabbit	9510 mg/kg

Skin corrosion/irritation : Not classified

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
pH	4 – 7

Talc (14807-96-6)	
pH	8 – 10

zinc oxide (1314-13-2)	
pH	7.5 – 8.5

CI Pigment White 6 (13463-67-7)	
pH	7 (6 – 9)

Aluminium oxide (Al2O3) (1344-28-1)	
pH	9.4 – 10.1

trizinc bis(orthophosphate) (7779-90-0)	
pH	6 – 8

Dipropylene glycol monomethyl ether, mixture of isomers (34590-94-8)	
pH	6 – 7

Serious eye damage/irritation : Not classified

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
pH	4 – 7

Talc (14807-96-6)	
pH	8 – 10

zinc oxide (1314-13-2)	
pH	7.5 – 8.5

CI Pigment White 6 (13463-67-7)	
pH	7 (6 – 9)

Aluminium oxide (Al2O3) (1344-28-1)	
pH	9.4 – 10.1

trizinc bis(orthophosphate) (7779-90-0)	
pH	6 – 8

Dipropylene glycol monomethyl ether, mixture of isomers (34590-94-8)	
pH	6 – 7

Respiratory or skin sensitisation : Not classified

Germ cell mutagenicity : Not classified

Carcinogenicity : Not classified

Reproductive toxicity : Not classified

Aluminium oxide (Al2O3) (1344-28-1)	
NOAEL (animal/male, F0/P)	1000 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)

STOT-single exposure : Not classified

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
STOT-single exposure	May cause drowsiness or dizziness.

STOT-repeated exposure : Not classified

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
LOAEL (oral, rat, 90 days)	2757 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	919 mg/kg bodyweight Animal: rat, Animal sex: male, Guideline: OECD Guideline 407 (Repeated Dose 28-Day Oral Toxicity Study in Rodents)
NOAEL (dermal, rat/rabbit, 90 days)	> 1000 mg/kg bodyweight Animal: rabbit, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)

Dioctyl sodium sulfosuccinate (577-11-7)	
NOAEL (oral, rat, 90 days)	> 1000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents), Guideline: EU Method B.26 (Sub-Chronic Oral Toxicity Test: Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Talc (14807-96-6)	
NOAEL (oral, rat, 90 days)	100 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)

zinc oxide (1314-13-2)	
LOAEL (dermal, rat/rabbit, 90 days)	75 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 410 (Repeated Dose Dermal Toxicity: 21/28-Day Study)
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Aluminium oxide (Al2O3) (1344-28-1)	
LOAEC (inhalation, rat, dust/mist/fume, 90 days)	0.015 mg/l air Animal: rat, Guideline: OECD Guideline 452 (Chronic Toxicity Studies)

trizinc bis(orthophosphate) (7779-90-0)	
LOAEL (oral, rat, 90 days)	53.8 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
NOAEL (oral, rat, 90 days)	31.52 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)

Dipropylene glycol monomethyl ether, mixture of isomers (34590-94-8)	
NOAEL (oral, rat, 90 days)	1000 mg/kg bodyweight Animal: rat, Guideline: other:

Aspiration hazard : Not classified

Nelfamar SD Coating	
Viscosity, kinematic	815.661 – 1223.491 mm²/s

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9)	
Viscosity, kinematic	1.3 (1.3 – 2.5) mm²/s

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Viscosity, kinematic	1.848 mm²/s

Alkydresin	
Viscosity, kinematic	2036 (2036 – 3499) mm²/s calculated

Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha (64742-48-9)	
Viscosity, kinematic	< 1 mm²/s Temp.: 'other:' Parameter: 'kinematic viscosity (in mm²/s)'

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short–term (acute) : Not classified
Hazardous to the aquatic environment, long–term (chronic) : Toxic to aquatic life with long lasting effects.

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
LC50 - Fish [1]	6812 mg/l
EC50 - Crustacea [1]	23300 mg/l
EC50 - Other aquatic organisms [1]	2954 mg/l Test organisms (species): other aquatic crustacea:

Dioctyl sodium sulfosuccinate (577-11-7)	
LC50 - Fish [1]	49 mg/l Test organisms (species): Danio rerio (previous name: Brachydanio rerio)

Talc (14807-96-6)	
LC50 - Fish [1]	89581.02 mg/l Test organisms (species): other:
LC50 - Fish [2]	110000 mg/l Test organisms (species): other:
EC50 96h - Algae [1]	7202.7 mg/l Test organisms (species): other:
NOEC (chronic)	1459.798 mg/l Test organisms (species): other: Duration: '30 d'

zinc oxide (1314-13-2)	
LC50 - Fish [1]	1120 (1.1 – 2250) mg/l
EC50 - Crustacea [1]	12.3 (0.098 – 24.6) mg/l

CI Pigment White 6 (13463-67-7)	
EC50 - Other aquatic organisms [1]	> 100 mg/l Test organisms (species):
EC50 72h - Algae [1]	> 100 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	5 mg/l Test organisms (species): Daphnia magna Duration: '21 d'

Aluminium oxide (Al2O3) (1344-28-1)	
EC50 72h - Algae [1]	1.05 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 72h - Algae [2]	0.2 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)

Amorphous silicon dioxide (7631-86-9)	
LC50 - Fish [1]	10000 (≥ 10000) mg/l
EC50 - Crustacea [1]	1000 (≥ 1000) mg/l

trizinc bis(orthophosphate) (7779-90-0)	
LC50 - Fish [1]	0.09 mg/l
EC50 - Crustacea [1]	2.44 mg/l
EC50 72h - Algae [1]	0.8 mg/l
ErC50 algae	0.8 mg/l

2-methylpentane-2,4-diol (107-41-5)	
LC50 - Fish [1]	10000 (≥ 12800) mg/l
EC50 - Other aquatic organisms [1]	3250 (2800 – 7050) mg/l

Dipropylene glycol monomethyl ether, mixture of isomers (34590-94-8)	
LC50 - Fish [1]	10000 (≥ 10000) mg/l
EC50 - Crustacea [1]	100 (≥ 100) mg/l
EC50 - Other aquatic organisms [1]	1930 mg/l Test organisms (species): other aquatic crustacea:
EC50 72h - Algae [1]	> 969 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
EC50 96h - Algae [1]	> 969 mg/l Test organisms (species): Raphidocelis subcapitata (previous names: Pseudokirchneriella subcapitata, Selenastrum capricornutum)
LOEC (chronic)	0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'
NOEC (chronic)	≥ 0.5 mg/l Test organisms (species): Daphnia magna Duration: '22 d'

12.2. Persistence and degradability

Nelfamar SD Coating	
Persistence and degradability	Rapidly degradable

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9)	
Persistence and degradability	Rapidly degradable

Urethane modified alkyd resin	
Persistence and degradability	Rapidly degradable

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Persistence and degradability	Rapidly degradable

Dioctyl sodium sulfosuccinate (577-11-7)	
Persistence and degradability	Rapidly degradable

Alkydresin	
Persistence and degradability	Rapidly degradable

Talc (14807-96-6)	
Persistence and degradability	Rapidly degradable

zinc oxide (1314-13-2)	
Persistence and degradability	Rapidly degradable

CI Pigment White 6 (13463-67-7)	
Persistence and degradability	Rapidly degradable

Aluminium oxide (Al2O3) (1344-28-1)	
Persistence and degradability	Rapidly degradable

Zirconium dioxide (1314-23-4)	
Persistence and degradability	Rapidly degradable

Amorphous silicon dioxide (7631-86-9)	
Persistence and degradability	Rapidly degradable

trizinc bis(orthophosphate) (7779-90-0)	
Persistence and degradability	Rapidly degradable

Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha (64742-48-9)	
Persistence and degradability	Rapidly degradable

2-methylpentane-2,4-diol (107-41-5)	
Persistence and degradability	Rapidly degradable

Dipropylene glycol monomethyl ether, mixture of isomers (34590-94-8)	
Persistence and degradability	Rapidly degradable

12.3. Bioaccumulative potential

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics (64742-48-9)	
Partition coefficient n-octanol/water (Log Pow)	> 4

1-methoxy-2-propanol; monopropylene glycol methyl ether (107-98-2)	
Partition coefficient n-octanol/water (Log Pow)	-0.44

Dipropylene glycol monomethyl ether, mixture of isomers (34590-94-8)	
Partition coefficient n-octanol/water (Log Pow)	0.006

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

Nelfamar SD Coating
PBT: not yet assessed
vPvB: not yet assessed

Component	
PBT: not relevant – no registration required	Amorphous silicon dioxide (7631-86-9)

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Nelfamar SD Coating	
Other information	Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional waste regulation : Disposal must be done according to official regulations.
Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.
Sewage disposal recommendations : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : Disposal must be done according to official regulations.
Additional information : Flammable vapours may accumulate in the container. Do not re-use empty containers.
European List of Waste (LoW, EC 2000/532) : 08 01 11* - waste paint and varnish containing organic solvents or other dangerous substances
08 01 12 - waste paint and varnish other than those mentioned in 08 01 11

SECTION 14: Transport information

In accordance with ADR / RID

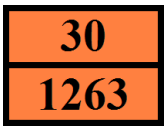
ADR	RID
14.1. UN number or ID number	
UN 1263	UN 1263
14.2. UN proper shipping name	
PAINT	PAINT
Transport document description	
UN 1263 PAINT, 3, III, (D/E), ENVIRONMENTALLY HAZARDOUS	UN 1263 PAINT, 3, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
3	3
	
14.4. Packing group	
III	III
14.5. Environmental hazards	
Dangerous for the environment: Yes	Dangerous for the environment: Yes
Only required for containers> 5 liters	

14.6. Special precautions for user

Special transport precautions : In package sizes smaller than or equal to 5 L, under the conditions of 2.2.3.1.5.2, this product is ADR exempt.

Overland transport

Classification code (ADR) : F1
Special provisions (ADR) : 163, 367, 650

Limited quantities (ADR)	:	5l
Excepted quantities (ADR)	:	E1
Packing instructions (ADR)	:	P001, IBC03, LP01, R001
Special packing provisions (ADR)	:	PP1
Mixed packing provisions (ADR)	:	MP19
Portable tank and bulk container instructions (ADR)	:	T2
Portable tank and bulk container special provisions (ADR)	:	TP1, TP29
Tank code (ADR)	:	LGBF
Vehicle for tank carriage	:	FL
Transport category (ADR)	:	3
Special provisions for carriage - Packages (ADR)	:	V12
Special provisions for carriage - Operation (ADR)	:	S2
Hazard identification number (Kemler No.)	:	30
Orange plates	:	
Tunnel restriction code (ADR)	:	D/E

Rail transport

Classification code (RID)	:	F1
Special provisions (RID)	:	163, 367, 650
Limited quantities (RID)	:	5L
Excepted quantities (RID)	:	E1
Packing instructions (RID)	:	P001, IBC03, LP01, R001
Special packing provisions (RID)	:	PP1
Mixed packing provisions (RID)	:	MP19
Portable tank and bulk container instructions (RID)	:	T2
Portable tank and bulk container special provisions (RID)	:	TP1, TP29
Tank codes for RID tanks (RID)	:	LGBF
Transport category (RID)	:	3
Special provisions for carriage – Packages (RID)	:	W12
Colis express (express parcels) (RID)	:	CE4
Hazard identification number (RID)	:	30

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

EU-Regulations

REACH Annex XVII (Restriction List)

EU restriction list (REACH Annex XVII)	
Reference code	**Applicable on**
3(a)	Nelfamar SD Coating
3(b)	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, < 2% aromatics ; Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha ; 2-methylpentane-2,4-diol
3(c)	Nelfamar SD Coating

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals): Naphtha (petroleum), hydrotreated heavy (64742-48-9), Naphtha (petroleum), hydrotreated heavy (64742-48-9)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (2024/590)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 2024/590 on substances that deplete the ozone layer)

Council Regulation (EC) for the control of dual-use items

Contains substance subject to the COUNCIL REGULATION (EC) for the control of dual-use items: Aluminium oxide (1344-28-1), Zirconia (1314-23-4).

VOC Directive (2004/42)

VOC content	:	459 g/l
Decopaint Directive (2004/42/EC) - Annex II	:	A/i (Paints and Varnishes - One-pack performance coatings)
Maximum allowed concentration	:	500 g/l VOC
Maximum content of VOC	:	458.00 g/l VOC

Explosives Precursors Regulation (EU 2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (EC 273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

National regulations

Netherlands

ABM category	:	Z(2) - biodegradable substances with hazardous properties for humans and the environment (carcinogenicity/ mutagenicity/reprotoxicity/bioacumulative potential or toxicity)
SZW-lijst van kankerverwekkende stoffen	:	Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha is listed
SZW-lijst van mutagene stoffen	:	Naphtha (petroleum), hydrotreated heavy, Low boiling point hydrogen treated naphtha is listed
SZW-lijst van reprotoxische stoffen – Borstvoeding	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Vruchtbaarheid	:	None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling	:	None of the components are listed

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Indication of changes:
The information supplied has been based upon the current level of information available, for the purpose of specifying the requirements regarding environment, health and safety in conjunction with the product. They are not to be interpreted as a warranty.

Indication of changes		
Section	**Changed item**	**Comments**
2.1	Contains	**Removed**
2.2	EUH-statements	**Modified**

Abbreviations and acronyms:	
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC

Abbreviations and acronyms:	
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
ACGIH	American Conference of Governmental Industrial Hygienists
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BLV	Biological limit value
BOD	Biochemical oxygen demand (BOD)
CAS-No.	Chemical Abstracts Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
COD	Chemical oxygen demand (COD)
CSA	Chemical safety assessment
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
ED	Endocrine disruptor
EN	European Standard
EWC	European waste catalogue
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
Log Kow	Partition coefficient n-octanol/water (Log Kow)
Log Pow	Partition coefficient n-octanol/water (Log Pow)
MAK	maximum workplace concentration
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
N.O.S.	Not Otherwise Specified
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
OSHA	Occupational Safety Health Administration
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
PPE	Personal protection equipment
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail

Abbreviations and acronyms:	
SDS	Safety Data Sheet
STP	Sewage treatment plant
TF	Technical function
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
TWA	Time Weighted Average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and Very Bioaccumulative
UFI	Unique Formula Identifier

Data sources : 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.

Training advice : Normal use of this product shall imply use in accordance with the instructions on the packaging.

Full text of H- and EUH-statements:	
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
Asp. Tox. 1	Aspiration hazard, Category 1
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 3	Flammable liquids, Category 3
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity – Single exposure, Category 3, Narcosis
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:		
Flam. Liq. 3	H226	On basis of test data
Aquatic Chronic 2	H411	Calculation method

Safety Data Sheet applicable for regions : NL - Netherlands

The classification complies with : ATP 8

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.