



SAFETY DATA SHEET NESTE PRO 0W-40

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

1.1. Product identifier

Product name	NESTE PRO 0W-40
Product number	ID 19022
Internal identification	1168
Synonyms; trade names	Previous product name: NESTE CITY PRO 0W-40, product number 0134, ID 12774.

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

Identified uses	Engine oil.
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1.3. Details of the supplier of the safety data sheet

Supplier	Neste Markkinointi Oy Keilaranta 21, Espoo, P.O.B. 95, FIN-00095 NESTE, FINLAND Tel. +358 10 45811 lubetec@neste.com
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1.4. Emergency telephone number

National emergency telephone number	+358 800 147 111, +358 9 471 977, Poison Information Centre
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification (SI 2019 No. 720)

Physical hazards	Not Classified
Health hazards	Not Classified
Environmental hazards	Not Classified

2.2. Label elements

Hazard statements	EUH208 Contains Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes. May produce an allergic reaction.
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Supplemental label information	EUH210 Safety data sheet available on request.
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2.3. Other hazards

Other hazards	This product does not contain any substances classified as PBT or vPvB. This product does not contain substances considered to have endocrine disrupting properties at levels of 0.1% or higher.
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SECTION 3: Composition/information on ingredients

3.2. Mixtures

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Distillates (petroleum), hydrotreated heavy paraffinic	40 - < 50 %
CAS number: 64742-54-7 EC number: 265-157-1	
Classification Asp. Tox. 1 - H304	
Dec-1-ene, homopolymer, hydrogenated	15 - < 25 %
CAS number: 68037-01-4 EC number: 500-183-1	
Classification Asp. Tox. 1 - H304	
Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based	2,5 - < 5,0 %
CAS number: 72623-87-1 EC number: 276-738-4	
Classification Asp. Tox. 1 - H304	
bis(nonylphenyl)amine	1 - < 2,5%
CAS number: 36878-20-3 EC number: 253-249-4	
Classification Aquatic Chronic 4 - H413	
Zinc bis(O,O-diisooctyl) bis(dithiophosphate)	1 - < 2,5% *
CAS number: 28629-66-5 EC number: 249-109-7	
Classification Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Aquatic Chronic 2 - H411	
Distillates (petroleum), solvent - dewaxed light paraffinic	1 - < 2,5%
CAS number: 64742-56-9 EC number: 265-159-2	
Classification Asp. Tox. 1 - H304	
Paraffin oils (petroleum), catalytic dewaxed heavy	1 - < 2,5%
CAS number: 64742-70-7 EC number: 265-174-4	
Classification Asp. Tox. 1 - H304	

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Distillates (petroleum), solvent-dewaxed heavy paraffinic	1 - < 2,5%
CAS number: 64742-65-0	EC number: 265-169-7

Classification

Asp. Tox. 1 - H304

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes	0,1 - < 0,25%
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CAS number: 252312-98-4

Classification

Skin Irrit. 2 - H315

Skin Sens. 1B - H317

Aquatic Chronic 3 - H412

The Full Text for all R-Phrases and Hazard Statements are Displayed in Section 16.

Composition comments	Special concentration limit: * CAS 28629-66-5 Eye Dam. 1 - H318; ≥ 15 %, Eye Irrit. 2 - H319; ≥ 15 %
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Other information	A petroleum product., DMSO < 3% (IP 346)., The product contains a substance as an impurity., C14-16-18 Alkyl phenol (EC: 931-468-2)
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SECTION 4: First aid measures

4.1. Description of first aid measures

Inhalation	Remove person to fresh air and keep comfortable for breathing. Place unconscious person on their side in the recovery position and ensure breathing can take place. Get medical attention if symptoms are severe or persist.
Ingestion	Maintain an open airway. Rinse mouth. Do not induce vomiting unless under the direction of medical personnel. Never give anything by mouth to an unconscious person. Get medical attention immediately.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.
Eye contact	Rinse immediately with plenty of water. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation persists after washing.

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

General information	The product contains a small amount of sensitising substance. May cause an allergic skin reaction.
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4.3. Indication of any immediate medical attention and special treatment needed

Notes for the doctor	Treat symptomatically.
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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Water spray, foam, dry powder or carbon dioxide.
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Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
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5.2. Special hazards arising from the substance or mixture

Specific hazards	None known.
Hazardous combustion products	Carbon monoxide (CO). Carbon dioxide (CO ₂). Nitrous gases (NO _x).

5.3. Advice for firefighters

Protective actions during firefighting	Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Contain and collect extinguishing water. Avoid discharge into drains.
Special protective equipment for firefighters	Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Wear suitable protective clothing as protection against splashing or contamination.
For emergency responders	Keep unnecessary and unprotected personnel away from the spillage.

6.2. Environmental precautions

Environmental precautions	Stop leak if safe to do so. Avoid the spillage or runoff entering drains, sewers or watercourses. Contain spillage with sand, earth or other suitable non-combustible material. Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).
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6.3. Methods and material for containment and cleaning up

Methods for cleaning up	Absorb spillage with sand or other inert absorbent. Place waste in labelled, sealed containers. Dispose of waste via a licensed waste disposal contractor.
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6.4. Reference to other sections

Reference to other sections	For personal protection, see Section 8.
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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions	All handling should only take place in well-ventilated areas. Avoid inhalation of vapours and spray/mists. Do not get in eyes, on skin, or on clothing. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Take precautionary measures against static discharges. For personal protection, see Section 8.
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7.2. Conditions for safe storage, including any incompatibilities

Storage precautions	Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep containers upright. Keep away from food, drink and animal feeding stuffs.
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7.3. Specific end use(s)

Specific end use(s)	Not known.
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SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

bis(nonylphenyl)amine (CAS: 36878-20-3)

PNEC	STP; 1 mg/l
	Sediment (Freshwater); 132000 mg/kg
	Sediment (Marinewater); 13200 mg/kg
	Soil; 263000 mg/kg

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Zinc bis(O,O-diisooctyl) bis(dithiophosphate) (CAS: 28629-66-5)

PNEC	STP; 3 mg/l Sediment (Freshwater); 0,21 mg/kg Sediment (Marinewater); 0,021 mg/kg Soil; 0,04 mg/kg
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8.2. Exposure controls

Appropriate engineering controls	All handling should only take place in well-ventilated areas. Provide eyewash station and safety shower.
Eye/face protection	Tight-fitting safety glasses.
Hand protection	Wear protective gloves. It is recommended that gloves are made of the following material: Nitrile rubber. Butyl rubber.
Other skin and body protection	Wear suitable protective clothing as protection against splashing or contamination.
Respiratory protection	No specific recommendations.
Environmental exposure controls	Store in a demarcated bunded area to prevent release to drains and/or watercourses.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Liquid.
Colour	Tan.
Odour	Petroleum.
Odour threshold	-
pH	-
Melting point	< -42°C Pour point
Initial boiling point and range	> 225°C
Flash point	208°C Pensky-Martens closed cup.
Flammability (solid, gas)	-
Upper/lower flammability or explosive limits	-
Vapour pressure	-
Vapour density	-
Relative density	~ 0,843 @ 15,6°C
Solubility(ies)	Insoluble in water.
Partition coefficient	-
Auto-ignition temperature	-
Decomposition Temperature	-
Viscosity	Kinematic viscosity 76,7 mm ² /s @ 40°C
Explosive properties	-

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Oxidising properties -

9.2. Other information

Other information Not known.

SECTION 10: Stability and reactivity

10.1. Reactivity

Reactivity There are no known reactivity hazards associated with this product.

10.2. Chemical stability

Stability Stable at normal ambient temperatures and when used as recommended.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No potentially hazardous reactions known.

10.4. Conditions to avoid

Conditions to avoid Avoid exposure to high temperatures or direct sunlight.

10.5. Incompatible materials

Materials to avoid Oxidising agents. Strong alkalis.

10.6. Hazardous decomposition products

Hazardous decomposition products Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrous gases (NO_x).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological effects Based on available data the classification criteria are not met.

Skin corrosion/irritation

Skin corrosion/irritation Based on available data the classification criteria are not met. Prolonged or repeated exposure to vapours in high concentrations may cause the following adverse effects: May cause skin irritation.

Serious eye damage/irritation

Serious eye damage/irritation Based on available data the classification criteria are not met. Vapour or spray in the eyes may cause irritation and smarting. Supplier's information.

Respiratory sensitisation

Respiratory sensitisation Based on available data the classification criteria are not met. Vapour may irritate respiratory system/lungs.

Skin sensitisation

Skin sensitisation Based on available data the classification criteria are not met. The product contains a small amount of sensitising substance. May cause an allergic skin reaction.

Germ cell mutagenicity

Genotoxicity - in vivo Based on available data the classification criteria are not met.

Carcinogenicity

Carcinogenicity Based on available data the classification criteria are not met.

Reproductive toxicity

Reproductive toxicity - fertility Based on available data the classification criteria are not met.

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Reproductive toxicity - development Based on available data the classification criteria are not met.

Specific target organ toxicity - single exposure

STOT - single exposure Based on available data the classification criteria are not met.

Specific target organ toxicity - repeated exposure

STOT - repeated exposure Based on available data the classification criteria are not met.

Aspiration hazard

Aspiration hazard Based on available data the classification criteria are not met.

Toxicological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 15000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

Dec-1-ene, homopolymer, hydrogenated

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 5,2 mg/l, (4h), Inhalation, Rat

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat (OECD 401)

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 5,58 mg/l, 4 hours, Dust/Mist Rat

bis(nonylphenyl)amine

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rat

Distillates (petroleum), solvent - dewaxed light paraffinic

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

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Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

Acute toxicity - inhalation

Notes (inhalation LC₅₀) LC₅₀ > 5,53 mg/l, 4 hours, Dust/Mist Rat

Paraffin oils (petroleum), catalytic dewaxed heavy

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rabbit

Distillates (petroleum), solvent-dewaxed heavy paraffinic

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 5000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 5000 mg/kg, Dermal, Rabbit

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes

Acute toxicity - oral

Notes (oral LD₅₀) LD₅₀ > 2000 mg/kg, Oral, Rat

Acute toxicity - dermal

Notes (dermal LD₅₀) LD₅₀ > 2000 mg/kg, Dermal, Rat

SECTION 12: Ecological information

12.1. Toxicity

Toxicity Based on available data the classification criteria are not met.

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: > 100 mg/l, Fish

Acute toxicity - aquatic invertebrates EL50, 48 hours: > 10000 mg/l, Marinewater invertebrates, Freshwater invertebrates

Acute toxicity - aquatic plants EL50, 72 hours: > 100 mg/l, Algae

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOEC, : 10 mg/l, Fish

Chronic toxicity - aquatic invertebrates NOEC, : 10 mg/l, Marinewater invertebrates, Freshwater invertebrates

Dec-1-ene, homopolymer, hydrogenated

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Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: > 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)
WAF

Acute toxicity - aquatic invertebrates EL₅₀, 48 hours: > 1000 mg/l, Daphnia magna
WAF (OECD TG 202)

Acute toxicity - aquatic plants EL₅₀, 72 hours: > 1000 mg/l, Algae
WAF (OECD TG 201)

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOELR, 21 days: 125 mg/l, Daphnia magna
WAF (OECD TG 211)

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

Acute aquatic toxicity

Acute toxicity - fish LL₅₀, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)
NOEL, 96 hours: ≥ 100 mg/l,
WAF (OECD 203)

Acute toxicity - aquatic invertebrates EL₅₀, 48 hours: > 10000 mg/l, Daphnia magna
NOEL, 48 - 96 hours: ≥ 10000 mg/l,
LL₅₀, 24 - 96 hours: > 10000 mg/l,
WAF (OECD 202)

Acute toxicity - aquatic plants NOEL, 72 hours: ≥ 100 mg/l, Pseudokirchneriella subcapitata
WAF (OECD 201)

Chronic aquatic toxicity

Chronic toxicity - fish early life stage NOELR, 14 days: ≥ 1000 mg/l, Oncorhynchus mykiss (Rainbow trout)

Chronic toxicity - aquatic invertebrates NOEL, 21 days: 10 mg/l, Daphnia magna
WAF (OECD 211)

bis(nonylphenyl)amine

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: > 100 mg/l, Danio rerio

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: > 100 mg/l, Daphnia magna
(WAF)

Acute toxicity - aquatic plants EC₅₀, 72 hours: 600 mg/l, Pseudokirchneriella subcapitata

Zinc bis(O,O-diisooctyl) bis(dithiophosphate)

Acute aquatic toxicity

Acute toxicity - fish LC₅₀, 96 hours: 3,8 mg/l, Oncorhynchus mykiss (Rainbow trout)

Acute toxicity - aquatic invertebrates EC₅₀, 48 hours: 510 mg/l, Daphnia magna

Acute toxicity - aquatic plants EC₅₀, 72 hours: 410 mg/l, Algae

Chronic aquatic toxicity

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Chronic toxicity - aquatic invertebrates NOEC, 21 days: 0,4 mg/l, Daphnia magna

Distillates (petroleum), solvent - dewaxed light paraffinic

Acute aquatic toxicity

Acute toxicity - fish LL50, 96 hours: > 100 mg/l, Pimephales promelas (Fat-head Minnow)
WAF (OECD TG 203)

Acute toxicity - aquatic invertebrates EL50, 48 hours: > 10000 mg/l, Daphnia magna
WAF (OECD TG 202)

Acute toxicity - aquatic plants NOEL, 72 hours: >= 100 mg/l, Pseudokirchneriella subcapitata
WAF (OECD TG 201)

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOEL, 21 days: 10 mg/l, Daphnia magna
WAF (OECD TG 211)

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes

Acute aquatic toxicity

Acute toxicity - fish LL50, 96 hours: > 94,8 mg/l, Oncorhynchus mykiss (Rainbow trout)
WAF (OECD TG 203)

Acute toxicity - aquatic invertebrates EL50, 48 hours: 50 mg/l, Daphnia magna
WAF (OECD TG 202)

Acute toxicity - aquatic plants EL50, 72 hours: 14 mg/l, Pseudokirchneriella subcapitata
(OECD TG 201)

Chronic aquatic toxicity

Chronic toxicity - aquatic invertebrates NOELR, 21 days: 100 mg/l, Daphnia magna
WAF (OECD TG 211)

12.2. Persistence and degradability

Persistence and degradability No data available.

Biodegradation No data available.

Ecological information on ingredients.

Lubricating oils (petroleum), C20-50, hydrotreated neutral oil-based

Biodegradation 2 - 4 %, 28 d (OECD TG 301B)

bis(nonylphenyl)amine

Biodegradation 0 %, 28 d
(OECD TG 301 B)

Distillates (petroleum), solvent - dewaxed light paraffinic

Biodegradation Inherently biodegradable.
31 %, 28 d (OECD TG 301 B)

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Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes

Biodegradation Not readily biodegradable.
23 %, 28 d (OECD TG 301 B)

12.3. Bioaccumulative potential

Bioaccumulative potential No data available on bioaccumulation.

Partition coefficient -

Ecological information on ingredients.

Distillates (petroleum), hydrotreated heavy paraffinic

Partition coefficient log Pow > 7

Dec-1-ene, homopolymer, hydrogenated

Partition coefficient log Pow > 6,5

bis(nonylphenyl)amine

Partition coefficient log Pow: > 7,5 (calculated)

Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes

Partition coefficient log Pow: > 5,1 (20 °C, OECD TG 107)

12.4. Mobility in soil

Mobility No data available.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment This product does not contain any substances classified as PBT or vPvB.

12.6. Other adverse effects

Other adverse effects This product does not contain substances considered to have endocrine disrupting properties at levels of 0.1% or higher.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Do not discharge into drains or watercourses or onto the ground. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Do not reuse empty containers.

SECTION 14: Transport information

General The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).

14.1. UN number

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UN No. (ADR/RID) -

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14.2. UN proper shipping name

Proper shipping name -
(ADR/RID)

14.3. Transport hazard class(es)

ADR/RID class -

14.4. Packing group

ADR/RID packing group -

14.5. Environmental hazards

Environmentally hazardous substance/marine pollutant

No.

14.6. Special precautions for user

Not applicable.

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

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code Not applicable.

SECTION 15: Regulatory information

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

National regulations

EU regulatory references for the safety data sheet:
Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).
Commission Regulation (EU) No 2015/830 of 28 May 2015.
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 (as amended).

EU legislation

Max. content of Volatile Organic Compounds (VOC):
12,06 %

15.2. Chemical safety assessment

No data available.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet WAF = Water Accommodated Fraction

Key literature references and sources for data The manufacturer's SDS. 19.9.2022

Revision comments Revised formulation. NOTE: Lines within the margin indicate significant changes from the previous revision.

Revision date 18/11/2022

Supersedes date 12/11/2020

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SDS number

4775

Hazard statements in full

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

EUH208 Contains Magnesium carbonate fumarate hydroxide, monoalkyl(C10-13) benzene sulfonate, monopolybutenylbenzene sulfonate complexes. May produce an allergic reaction.