



Bourne Seal

Revision: 2019-03-31

Version: 02.0

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

1.1 Product identifier

Trade name: Bourne Seal

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

Identified uses:

For professional use only.

AISE-P406 - Polish/Impregnating agent. Manual process

Uses advised against: Uses other than those identified are not recommended

1.3 Details of the supplier of the safety data sheet

Diversey Europe Operations BV, Maarssenbroeksedijk 2, 3542DN Utrecht, The Netherlands

Contact details

Diversey Ltd

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: customerservice.uk@diversey.com

1.4 Emergency telephone number

Seek medical advice (show the label or safety data sheet where possible)

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Flam. Liq. 3 (H226)

STOT RE 1 (H372)

STOT SE 3 (H336)

EUH066

Aquatic Chronic 2 (H411)

2.2 Label elements



Signal word: Danger.

Contains naphtha (petroleum), hydrotreated heavy (Mineral Oil), 2-butanone oxime (2-Butanone Oxime)

Hazard statements:

H226 - Flammable liquid and vapour.

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

H336 - May cause drowsiness or dizziness.

EUH066 - Repeated exposure may cause skin dryness or cracking.

EUH208 - May produce an allergic reaction.

H411 - Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P403 + P235 - Store in a well-ventilated place. Keep cool.

2.3 Other hazards

No other hazards known. The product does not meet the criteria for PBT or vPvB in accordance with Regulation (EC) No 1907/2006, Annex XIII.

SECTION 3: Composition/information on ingredients**3.2 Mixtures**

Ingredient(s)	EC number	CAS #	REACH number	Classification	Notes	Weight percent
naphtha (petroleum), hydrotreated heavy	265-150-3	64742-48-9	01-2119463258-33	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) STOT SE 3 (H336) EUH066 Aquatic Chronic 2 (H411)		30-50
xylene (mix)	215-535-7	1330-20-7	01-2119488216-32	Flam. Liq. 3 (H226) Asp. Tox. 1 (H304) Acute Tox. 4 (H312) Acute Tox. 4 (H332) STOT SE 3 (H335) STOT RE 2 (H373) Skin Irrit. 2 (H315) Eye Irrit. 2 (H319)		1-3
distillates (petroleum), hydrotreated light	265-149-8	64742-47-8	01-2119457736-27	Asp. Tox. 1 (H304) STOT SE 3 (H336) EUH066 Aquatic Chronic 2 (H411)		1-3
2-butanone oxime	202-496-6	96-29-7	01-2119539477-28	Carc. 2 (H351) Acute Tox. 4 (H312) Eye Dam. 1 (H318) Skin Sens. 1 (H317)		0.1-1
2-ethylhexanoic acid, zirconium salt	245-018-1	22464-99-9	01-2119979088-21	Repr. 2 (H361) Skin Irrit. 2 (H315) Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410)		0.1-1

Workplace exposure limit(s), if available, are listed in subsection 8.1.

[1] Exempted: ionic mixture. See Regulation (EC) No 1907/2006, Annex V, paragraph 3 and 4. This salt is potentially present, based on calculation, and included for classification and labelling purposes only. Each starting material of the ionic mixture is registered, as required.

[2] Exempted: included in Annex IV of Regulation (EC) No 1907/2006.

[3] Exempted: Annex V of Regulation (EC) No 1907/2006.

[4] Exempted: polymer. See Article 2(9) of Regulation (EC) No 1907/2006.

For the full text of the H and EUH phrases mentioned in this Section, see Section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures****General Information:**

Symptoms of intoxication may even occur after several hours. It is recommended to continue medical observation for at least 48 hours after the incident. If unconscious place in recovery position and seek medical advice. Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. No mouth-to-mouth or mouth-to-nose resuscitation. Use Ambu bag or ventilator. Get medical attention or advice if you feel unwell.

Inhalation:

Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTRE, doctor or physician if you feel unwell.

Skin contact:

Take off immediately all contaminated clothing and wash it before re-use. If skin irritation occurs: Get medical advice or attention.

Eye contact:

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention or advice if you feel unwell.

Ingestion:

Rinse mouth. Immediately drink 1 glass of water. Never give anything by mouth to an unconscious person. Get medical attention or advice if you feel unwell.

Self-protection of first aider:

Consider personal protective equipment as indicated in subsection 8.2.

4.2 Most important symptoms and effects, both acute and delayed**Inhalation:**

May cause drowsiness or dizziness.

Skin contact:

Repeated exposure may cause skin dryness or cracking.

Eye contact:

No known effects or symptoms in normal use.

Ingestion:

No known effects or symptoms in normal use.

4.3 Indication of any immediate medical attention and special treatment needed

No information available on clinical testing and medical monitoring. Specific toxicological information on substances, if available, can be found in section 11.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Carbon dioxide. Dry powder. Sand. Alcohol-resistant foam. Do not use water.

5.2 Special hazards arising from the substance or mixture

No special hazards known.

Bourne Seal

5.3 Advice for firefighters

As in any fire, wear self contained breathing apparatus and suitable protective clothing including gloves and eye/face protection.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Turn off all sources of ignition. Ventilate the area.

6.2 Environmental precautions

Do not allow to enter drainage system, surface or ground water. Do not allow to enter the ground/soil. Inform responsible authorities in case undiluted product reaches drainage system, surface or ground water or the ground/soil.

6.3 Methods and material for containment and cleaning up

Absorb with liquid-binding material (sand, diatomite, universal binders, sawdust).

6.4 Reference to other sections

For personal protective equipment see subsection 8.2. For disposal considerations see section 13.

SECTION 7: Handling and storage**7.1 Precautions for safe handling****Measures to prevent fire and explosions:**

Keep away from flames and hot surfaces. No smoking. Keep away from heat. Take precautionary measures against static discharges.

Measures required to protect the environment:

For environmental exposure controls see subsection 8.2.

Advices on general occupational hygiene:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Do not mix with other products unless advised by Diversey. Wash face, hands and any exposed skin thoroughly after handling. Take off immediately all contaminated clothing. Store used personal protective equipment separately. Use only with adequate ventilation. See chapter 8.2, Exposure controls / Personal protection.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local and national regulations. Store in a well-ventilated place. Store in a closed container. Keep only in original packaging. Keep cool. Keep away from heat and direct sunlight.

For conditions to avoid see subsection 10.4. For incompatible materials see subsection 10.5.

7.3 Specific end use(s)

No specific advice for end use available.

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Workplace exposure limits**

Air limit values, if available:

Ingredient(s)	UK - Long term value(s)	UK - Short term value(s)
xylene (mix)	50 ppm 220 mg/m ³	100 ppm 441 mg/m ³
2-ethylhexanoic acid, zirconium salt	5 mg/m ³	10 mg/m ³

Biological limit values, if available:

Recommended monitoring procedures, if available:

Additional exposure limits under the conditions of use, if available:

DNEL/DMEL and PNEC values**Human exposure**

DNEL oral exposure - Consumer (mg/kg bw)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
naphtha (petroleum), hydrotreated heavy	No data available	No data available	No data available	No data available
xylene (mix)	-	-	-	-
distillates (petroleum), hydrotreated light	No data available	No data available	No data available	No data available
2-butanone oxime	No data available	No data available	No data available	No data available
2-ethylhexanoic acid, zirconium salt	No data available	No data available	No data available	No data available

DNEL dermal exposure - Worker

Ingredient(s)	Short term - Local	Short term - Systemic	Long term - Local	Long term - Systemic

Bourne Seal

	effects	effects (mg/kg bw)	effects	effects (mg/kg bw)
naphtha (petroleum), hydrotreated heavy xylene (mix)	No data available	No data available	No data available	No data available
distillates (petroleum), hydrotreated light	No data available	No data available	No data available	No data available
2-butanone oxime	No data available	No data available	No data available	No data available
2-ethylhexanoic acid, zirconium salt	No data available	No data available	No data available	No data available

DNEL dermal exposure - Consumer

Ingredient(s)	Short term - Local effects	Short term - Systemic effects (mg/kg bw)	Long term - Local effects	Long term - Systemic effects (mg/kg bw)
naphtha (petroleum), hydrotreated heavy xylene (mix)	No data available	No data available	No data available	No data available
distillates (petroleum), hydrotreated light	No data available	No data available	No data available	No data available
2-butanone oxime	No data available	No data available	No data available	No data available
2-ethylhexanoic acid, zirconium salt	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Worker (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
naphtha (petroleum), hydrotreated heavy xylene (mix)	No data available	No data available	No data available	No data available
distillates (petroleum), hydrotreated light	No data available	No data available	No data available	No data available
2-butanone oxime	No data available	No data available	No data available	No data available
2-ethylhexanoic acid, zirconium salt	No data available	No data available	No data available	No data available

DNEL inhalatory exposure - Consumer (mg/m³)

Ingredient(s)	Short term - Local effects	Short term - Systemic effects	Long term - Local effects	Long term - Systemic effects
naphtha (petroleum), hydrotreated heavy xylene (mix)	No data available	No data available	No data available	No data available
distillates (petroleum), hydrotreated light	No data available	No data available	No data available	No data available
2-butanone oxime	No data available	No data available	No data available	No data available
2-ethylhexanoic acid, zirconium salt	No data available	No data available	No data available	No data available

Environmental exposure

Environmental exposure - PNEC

Ingredient(s)	Surface water, fresh (mg/l)	Surface water, marine (mg/l)	Intermittent (mg/l)	Sewage treatment plant (mg/l)
naphtha (petroleum), hydrotreated heavy xylene (mix)	No data available	No data available	No data available	No data available
distillates (petroleum), hydrotreated light	No data available	No data available	No data available	No data available
2-butanone oxime	No data available	No data available	No data available	No data available
2-ethylhexanoic acid, zirconium salt	No data available	No data available	No data available	No data available

Environmental exposure - PNEC, continued

Ingredient(s)	Sediment, freshwater (mg/kg)	Sediment, marine (mg/kg)	Soil (mg/kg)	Air (mg/m ³)
naphtha (petroleum), hydrotreated heavy xylene (mix)	No data available	No data available	No data available	No data available
distillates (petroleum), hydrotreated light	No data available	No data available	No data available	No data available
2-butanone oxime	No data available	No data available	No data available	No data available
2-ethylhexanoic acid, zirconium salt	No data available	No data available	No data available	No data available

8.2 Exposure controls

The following information applies for the uses indicated in subsection 1.2 of the Safety Data Sheet. If available, please refer to the product information sheet for application and handling instructions. Normal use conditions are assumed for this section.

Recommended safety measures for handling the undiluted product:

Appropriate engineering controls: No special requirements under normal use conditions.
Appropriate organisational controls: Avoid direct contact and/or splashes where possible. Train personnel.

Personal protective equipment

Eye / face protection: Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product (EN 166).

Hand protection: No special requirements under normal use conditions.

Body protection: No special requirements under normal use conditions.

Respiratory protection: No special requirements under normal use conditions.

Environmental exposure controls: Should not reach sewage water or drainage ditch undiluted or unneutralised.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Information in this section refers to the product, unless it is specifically stated that substance data is listed

Physical State: Liquid	Method / remark
Colour: Clear, Brown	
Odour: Product specific	
Odour threshold: Not applicable	
pH: Not applicable	
Melting point/freezing point (°C): Not determined	Not relevant to classification of this product
Initial boiling point and boiling range (°C): Not determined	See substance data

Substance data, boiling point

Ingredient(s)	Value (°C)	Method	Atmospheric pressure (hPa)
naphtha (petroleum), hydrotreated heavy	No data available		
xylene (mix)	No data available		
distillates (petroleum), hydrotreated light	No data available		
2-butanone oxime	No data available		
2-ethylhexanoic acid, zirconium salt	No data available		

Flammability (liquid): Flammable.	Method / remark
Flash point (°C): ≈ 51 °C	closed cup
Sustained combustion: The product sustains combustion (UN Manual of Tests and Criteria, section 32, L.2)	UN Manual of Tests and Criteria, section 32, L.2
Evaporation rate: Not determined	Not relevant to classification of this product
Flammability (solid, gas): Not applicable to liquids	
Upper/lower flammability limit (%): Not determined	

Substance data, flammability or explosive limits, if available:

Vapour pressure: Not determined	Method / remark
	See substance data

Substance data, vapour pressure

Ingredient(s)	Value (Pa)	Method	Temperature (°C)
naphtha (petroleum), hydrotreated heavy	No data available		
xylene (mix)	No data available		
distillates (petroleum), hydrotreated light	No data available		
2-butanone oxime	No data available		
2-ethylhexanoic acid, zirconium salt	No data available		

Vapour density: Not determined	Method / remark
Relative density: ≈ 0.89 (20 °C)	Not relevant to classification of this product
Solubility in / Miscibility with Water: Fully miscible	OECD 109 (EU A.3)

Substance data, solubility in water

Ingredient(s)	Value (g/l)	Method	Temperature (°C)
naphtha (petroleum), hydrotreated heavy	No data available		
xylene (mix)	0.175	Method not given	
distillates (petroleum), hydrotreated light	No data available		
2-butanone oxime	No data available		
2-ethylhexanoic acid, zirconium salt	No data available		

Substance data, partition coefficient n-octanol/water (log Kow): see subsection 12.3

Autoignition temperature: Not determined	Method / remark
Decomposition temperature: Not applicable.	
Viscosity: > 20.5 mm ² /s (20 °C)	
Explosive properties: Not explosive. Vapours may form explosive mixtures with air.	
Oxidising properties: Not oxidising.	

9.2 Other information

Surface tension (N/m): Not determined	Not relevant to classification of this product
Corrosion to metals: Not corrosive	

Substance data, dissociation constant, if available:

SECTION 10: Stability and reactivity

10.1 Reactivity

No reactivity hazards known under normal storage and use conditions.

10.2 Chemical stability

Stable under normal storage and use conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known under normal storage and use conditions.

10.4 Conditions to avoid

None known under normal storage and use conditions.

10.5 Incompatible materials

None known under normal use conditions.

10.6 Hazardous decomposition products

None known under normal storage and use conditions.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Mixture data:

Relevant calculated ATE(s):

ATE - Dermal (mg/kg): >2000

ATE - Inhalatory, vapours (mg/l): 380

Substance data, where relevant and available, are listed below:

Acute toxicity

Acute oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
naphtha (petroleum), hydrotreated heavy		No data available			
xylene (mix)	LD ₅₀	2000 - 5000		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-butanone oxime		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			

Acute dermal toxicity:

Ingredient(s)	Endpoint	Value (mg/kg)	Species	Method	Exposure time (h)
naphtha (petroleum), hydrotreated heavy		No data available			
xylene (mix)		No data available		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-butanone oxime		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			

Acute inhalative toxicity

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
naphtha (petroleum), hydrotreated heavy		No data available			
xylene (mix)	LC ₅₀	> 10		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-butanone oxime		No data available			
2-ethylhexanoic acid, zirconium salt		No data			

		available		
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Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
naphtha (petroleum), hydrotreated heavy	No data available			
xylene (mix)	Irritant		Method not given	
distillates (petroleum), hydrotreated light	No data available			
2-butanone oxime	No data available			
2-ethylhexanoic acid, zirconium salt	No data available			

Eye irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
naphtha (petroleum), hydrotreated heavy	No data available			
xylene (mix)	Severe damage		Method not given	
distillates (petroleum), hydrotreated light	No data available			
2-butanone oxime	No data available			
2-ethylhexanoic acid, zirconium salt	No data available			

Respiratory tract irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
naphtha (petroleum), hydrotreated heavy	No data available			
xylene (mix)	No data available			
distillates (petroleum), hydrotreated light	No data available			
2-butanone oxime	No data available			
2-ethylhexanoic acid, zirconium salt	No data available			

Sensitisation

Sensitisation by skin contact

Ingredient(s)	Result	Species	Method	Exposure time (h)
naphtha (petroleum), hydrotreated heavy	No data available			
xylene (mix)	No data available			
distillates (petroleum), hydrotreated light	No data available			
2-butanone oxime	No data available			
2-ethylhexanoic acid, zirconium salt	No data available			

Sensitisation by inhalation

Ingredient(s)	Result	Species	Method	Exposure time
naphtha (petroleum), hydrotreated heavy	No data available			
xylene (mix)	No data available			
distillates (petroleum), hydrotreated light	No data available			
2-butanone oxime	No data available			
2-ethylhexanoic acid, zirconium salt	No data available			

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mutagenicity

Ingredient(s)	Result (in-vitro)	Method (In-vitro)	Result (in-vivo)	Method (in-vivo)
naphtha (petroleum), hydrotreated heavy	No data available		No data available	
xylene (mix)	No evidence for mutagenicity, negative test results		No data available	
distillates (petroleum), hydrotreated light	No data available		No data available	
2-butanone oxime	No data available		No data available	
2-ethylhexanoic acid, zirconium salt	No data available		No data available	

Carcinogenicity

Ingredient(s)	Effect
naphtha (petroleum), hydrotreated heavy	No data available
xylene (mix)	No data available
distillates (petroleum), hydrotreated light	No data available
2-butanone oxime	No data available
2-ethylhexanoic acid, zirconium salt	No data available

Toxicity for reproduction

Ingredient(s)	Endpoint	Specific effect	Value (mg/kg bw/d)	Species	Method	Exposure time	Remarks and other effects reported
naphtha (petroleum), hydrotreated heavy			No data available				
xylene (mix)			No data available				No evidence for reproductive toxicity

Bourne Seal

distillates (petroleum), hydrotreated light			No data available				
2-butanone oxime			No data available				
2-ethylhexanoic acid, zirconium salt			No data available				

Repeated dose toxicity

Sub-acute or sub-chronic oral toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
naphtha (petroleum), hydrotreated heavy		No data available				
xylene (mix)		No data available				
distillates (petroleum), hydrotreated light		No data available				
2-butanone oxime		No data available				
2-ethylhexanoic acid, zirconium salt		No data available				

Sub-chronic dermal toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
naphtha (petroleum), hydrotreated heavy		No data available				
xylene (mix)		No data available				
distillates (petroleum), hydrotreated light		No data available				
2-butanone oxime		No data available				
2-ethylhexanoic acid, zirconium salt		No data available				

Sub-chronic inhalation toxicity

Ingredient(s)	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time (days)	Specific effects and organs affected
naphtha (petroleum), hydrotreated heavy		No data available				
xylene (mix)		No data available				
distillates (petroleum), hydrotreated light		No data available				
2-butanone oxime		No data available				
2-ethylhexanoic acid, zirconium salt		No data available				

Chronic toxicity

Ingredient(s)	Exposure route	Endpoint	Value (mg/kg bw/d)	Species	Method	Exposure time	Specific effects and organs affected	Remark
naphtha (petroleum), hydrotreated heavy			No data available					
xylene (mix)			No data available					
distillates (petroleum), hydrotreated light			No data available					
2-butanone oxime			No data available					
2-ethylhexanoic acid, zirconium salt			No data available					

STOT-single exposure

Ingredient(s)	Affected organ(s)
naphtha (petroleum), hydrotreated heavy	No data available
xylene (mix)	No data available
distillates (petroleum), hydrotreated light	No data available
2-butanone oxime	No data available
2-ethylhexanoic acid, zirconium salt	No data available

STOT-repeated exposure

Ingredient(s)	Affected organ(s)
naphtha (petroleum), hydrotreated heavy	No data available
xylene (mix)	No data available
distillates (petroleum), hydrotreated light	No data available
2-butanone oxime	No data available
2-ethylhexanoic acid, zirconium salt	No data available

Bourne Seal

Aspiration hazard

Substances with an aspiration hazard (H304), if any, are listed in section 3. If relevant, see section 9 for dynamic viscosity and relative density of the product.

Potential adverse health effects and symptoms

Effects and symptoms related to the product, if any, are listed in subsection 4.2.

SECTION 12: Ecological information**12.1 Toxicity**

No data is available on the mixture.

Substance data, where relevant and available, are listed below:

Aquatic short-term toxicity

Aquatic short-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
naphtha (petroleum), hydrotreated heavy		No data available			
xylene (mix)	LC 50	1 - 10		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-butanone oxime		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			

Aquatic short-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
naphtha (petroleum), hydrotreated heavy		No data available			
xylene (mix)	LC 50	1 - 10		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-butanone oxime		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			

Aquatic short-term toxicity - algae

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (h)
naphtha (petroleum), hydrotreated heavy		No data available			
xylene (mix)	LC 50	1 - 10		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-butanone oxime		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			

Aquatic short-term toxicity - marine species

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time (days)
naphtha (petroleum), hydrotreated heavy		No data available			
xylene (mix)		No data available			
distillates (petroleum), hydrotreated light		No data available			
2-butanone oxime		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			

Impact on sewage plants - toxicity to bacteria

Ingredient(s)	Endpoint	Value (mg/l)	Inoculum	Method	Exposure time
naphtha (petroleum), hydrotreated heavy		No data available			
xylene (mix)	EC 50	100		Method not given	
distillates (petroleum), hydrotreated light		No data available			

Bourne Seal

2-butanone oxime		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			

Aquatic long-term toxicity

Aquatic long-term toxicity - fish

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
naphtha (petroleum), hydrotreated heavy		No data available				
xylene (mix)	NOEC	1 - 10				
distillates (petroleum), hydrotreated light		No data available				
2-butanone oxime		No data available				
2-ethylhexanoic acid, zirconium salt		No data available				

Aquatic long-term toxicity - crustacea

Ingredient(s)	Endpoint	Value (mg/l)	Species	Method	Exposure time	Effects observed
naphtha (petroleum), hydrotreated heavy		No data available				
xylene (mix)		No data available				
distillates (petroleum), hydrotreated light		No data available				
2-butanone oxime		No data available				
2-ethylhexanoic acid, zirconium salt		No data available				

Aquatic toxicity to other aquatic benthic organisms, including sediment-dwelling organisms, if available:

Ingredient(s)	Endpoint	Value (mg/kg dw sediment)	Species	Method	Exposure time (days)	Effects observed
naphtha (petroleum), hydrotreated heavy		No data available				
xylene (mix)		No data available				
distillates (petroleum), hydrotreated light		No data available				
2-butanone oxime		No data available				
2-ethylhexanoic acid, zirconium salt		No data available				

Terrestrial toxicity

Terrestrial toxicity - soil invertebrates, including earthworms, if available:

Terrestrial toxicity - plants, if available:

Terrestrial toxicity - birds, if available:

Terrestrial toxicity - beneficial insects, if available:

Terrestrial toxicity - soil bacteria, if available:

12.2 Persistence and degradability**Abiotic degradation**

Abiotic degradation - photodegradation in air, if available:

Ingredient(s)	Half-life time	Method	Evaluation	Remark
xylene (mix)	No data available		Rapidly photodegradable	

Abiotic degradation - hydrolysis, if available:

Abiotic degradation - other processes, if available:

Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
naphtha (petroleum), hydrotreated heavy					No data available
xylene (mix)					Readily biodegradable
distillates (petroleum), hydrotreated light					Inherently biodegradable.
2-butanone oxime					Inherently biodegradable.
2-ethylhexanoic acid, zirconium salt					Not applicable (inorganic)

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										(substance)
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Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Ingredient(s)	Value	Method	Evaluation	Remark
naphtha (petroleum), hydrotreated heavy	No data available			
xylene (mix)	No data available			
distillates (petroleum), hydrotreated light	No data available			
2-butanone oxime	No data available			
2-ethylhexanoic acid, zirconium salt	No data available			

Bioconcentration factor (BCF)

Ingredient(s)	Value	Species	Method	Evaluation	Remark
naphtha (petroleum), hydrotreated heavy	No data available				
xylene (mix)	No data available				
distillates (petroleum), hydrotreated light	No data available				
2-butanone oxime	No data available				
2-ethylhexanoic acid, zirconium salt	No data available				

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

Ingredient(s)	Adsorption coefficient Log Koc	Desorption coefficient Log Koc(des)	Method	Soil/sediment type	Evaluation
naphtha (petroleum), hydrotreated heavy	No data available				
xylene (mix)	No data available				Potential for adsorption to soil
distillates (petroleum), hydrotreated light	No data available				
2-butanone oxime	No data available				
2-ethylhexanoic acid, zirconium salt	No data available				

12.5 Results of PBT and vPvB assessment

Substances that fulfill the criteria for PBT/vPvB, if any, are listed in section 3.

12.6 Other adverse effects

No other adverse effects known.

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Waste from residues / unused products:

European Waste Catalogue:

The concentrated contents or contaminated packaging should be disposed of by a certified handler or according to the site permit. Release of waste to sewers is discouraged. The cleaned packaging material is suitable for energy recovery or recycling in line with local legislation.
16 03 05* - organic wastes containing dangerous substances.

Empty packaging

Recommendation:

Dispose of observing national or local regulations.

SECTION 14: Transport information

Land transport (ADR/RID), Sea transport (IMDG), Air transport (ICAO-TI / IATA-DGR)

14.1 UN number: 1263

14.2 UN proper shipping name:
Paint

14.3 Transport hazard class(es):

Transport hazard class (and subsidiary risks): 3

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: Yes

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: The product is not transported in bulk tankers.

Other relevant information:

ADR

Special provisions: Special provision 640E

Classification code: F1

Tunnel restriction code: D/E

Hazard identification number: 30

IMO/IMDG

EmS: F-E, S-E

The product has been classified, labelled and packaged in accordance with the requirements of ADR and the provisions of the IMDG Code. Transport regulations include special provisions for certain classes of dangerous goods packed in limited quantities.

SECTION 15: Regulatory information

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

EU regulations:

- Regulation (EC) No. 1907/2006 - REACH
- Regulation (EC) No 1272/2008 - CLP

Authorisations or restrictions (Regulation (EC) No 1907/2006, Title VII respectively Title VIII): Not applicable.

UFI: SS13-J0K9-R008-Y8T0

15.2 Chemical safety assessment

A chemical safety assessment has not been carried out on the mixture

SECTION 16: Other information

The information in this document is based on our best present knowledge. However, it does not constitute a guarantee for any specific product features and does not establish a legally binding contract

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Classification procedure

The classification of the mixture is in general based on calculation methods using substance data, as required by Regulation (EC) No 1272/2008. If for certain classifications data on the mixture is available or for example bridging principles or weight of evidence can be used for classification, this will be indicated in the relevant sections of the Safety Data Sheet. See section 9 for physical chemical properties, section 11 for toxicological information and section 12 for ecological information.

Full text of the H and EUH phrases mentioned in section 3:

- H226 - Flammable liquid and vapour.
- H304 - May be fatal if swallowed and enters airways.
- H312 - Harmful in contact with skin.
- H315 - Causes skin irritation.
- H317 - May cause an allergic skin reaction.
- H318 - Causes serious eye damage.
- H319 - Causes serious eye irritation.
- H332 - Harmful if inhaled.
- H335 - May cause respiratory irritation.
- H336 - May cause drowsiness or dizziness.
- H351 - Suspected of causing cancer.
- H361 - Suspected of damaging fertility or the unborn child.
- H373 - May cause damage to organs through prolonged or repeated exposure.
- 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.

Abbreviations and acronyms:

- AISE - The international Association for Soaps, Detergents and Maintenance Products
- DNEL - Derived No Effect Limit
- EUH - CLP Specific hazard statement
- PBT - Persistent, Bioaccumulative and Toxic
- PNEC - Predicted No Effect Concentration
- REACH number - REACH registration number, without supplier specific part
- vPvB - very Persistent and very Bioaccumulative
- ATE - Acute Toxicity Estimate
- LD50 - Lethal Dose, 50% / Median Lethal dose
- LC50 - Lethal Concentration, 50% / Median Lethal Concentration
- EC50 - effective concentration, 50%
- NOEL - No observed effect level
- NOAEL - No observed adverse effect level

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- OECD - Organization for Economic Cooperation and Development

End of Safety Data Sheet