



Safety Data Sheet

According to Regulation (EC) No 1907/2006

Bourne Seal Natural

Revision: 2014-02-06

Version: 02

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

1.1 Product identifier

Trade name: Bourne Seal Natural

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 Ltd

Contact details

Weston Favell Centre, Northampton NN3 8PD, United Kingdom

Tel: 01604 405311, Fax: 01604 406809

Regulatory Email: MSDSinfoUK@sealedair.com

1.4 Emergency telephone number

For medical or environmental emergency only:

call 0800 052 0185

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

The product has been classified and labelled in accordance with Directive 1999/45/EC and corresponding national legislation.

Risk phrases:

R10 - Flammable.

R66 - Repeated exposure may cause skin dryness or cracking.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

2.2 Label elements

Risk phrases:

R10 - Flammable.

R66 - Repeated exposure may cause skin dryness or cracking.

R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases:

S23c - Do not breathe vapour.

S24 - Avoid contact with skin.

S61b - Avoid release to the environment. Refer to safety data sheet.

Further indications on the label:

EU limit value for this product (cat A/I): 500 g/l. This product contains max 500 g/l VOC.

Contains 2-butanone oxime. May produce an allergic reaction.

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 number	REACH number	Classification	Classification (EC) 1272/2008	Notes	Weight percent
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naphtha (petroleum), hydrotreated heavy	265-150-3	64742-48-9	No data available	R10-66 Xn;R65	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) (EUH066)	30-50
naphtha (petroleum), hydrodesulphurized heavy	265-185-4	64742-82-1	No data available	R10-66-67 N;R51/53 Xn;R65	Asp. Tox. 1 (H304) Flam. Liq. 3 (H226) STOT SE 3 (H336) Aquatic Chronic 2 (H411) (EUH066)	10-20
xylene (mix)	215-535-7	1330-20-7	01-2119488216-32	R10 Xn;R20/21 Xi;R38	Flam. Liq. 3 (H226) Acute Tox. 4 (H312) Acute Tox. 4 (H332) Skin Irrit. 2 (H315)	1-3
distillates (petroleum), hydrotreated light	265-149-8	64742-47-8	No data available	Xn;R65 R66	Asp. Tox. 1 (H304) (EUH066)	1-3
2-ethylhexanoic acid, zirconium salt	245-018-1	22464-99-9	No data available	Xi;R38 N;R50/53	Aquatic Acute 1 (H400) Aquatic Chronic 1 (H410) Skin Irrit. 2 (H315)	0.1-1
2-butanone oxime	202-496-6	96-29-7	No data available	Xn;R21 Carc.Cat.3;R40 Xi;R41-43	Eye Dam. 1 (H318) Carc. 2 (H351) Acute Tox. 4 (H312) Skin Sens. 1 (H317)	0.1-1

* Polymer.

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

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.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation

Remove from source of exposure. If discomfort persists, obtain medical attention.

Skin contact:

Rinse with plenty of water. Take off all contaminated clothing immediately. If irritation develops get medical attention.

Eye contact:

Wash off immediately with plenty of water. Get medical attention.

Ingestion:

Remove material from mouth. Immediately drink 1-2 glasses of water or milk. If large amounts swallowed or symptoms develop, get medical attention.

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:

Can cause irritation.

Skin contact:

Repeated exposure may cause skin dryness or cracking.

Eye contact:

Unlikely to be irritant in normal use.

Ingestion:

Unlikely to be harmful unless excessive amount ingested.

Sensitisation:

May produce an allergic reaction.

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.

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. Ensure adequate ventilation. Do not breathe dust or vapour.

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). Ensure adequate ventilation.

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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****Advice on safe handling:**

Handle in accordance with good industrial hygiene and safety practice. Do not mix with other products unless advised by Diversey. Use only with adequate ventilation. For advice on general occupational hygiene see subsection 8.2. For environmental exposure controls see subsection 8.2. For incompatible materials see subsection 10.5.

Prevention of fire and explosion:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges.

7.2 Conditions for safe storage, including any incompatibilities**Requirements for storage rooms / facilities:**

In accordance with local and national regulations.

Combined storage in storage rooms / facilities:

In accordance with local and national regulations. For incompatible materials see subsection 10.5.

Basic storage conditions

Store in original container. Keep container tightly closed. For conditions to avoid see subsection 10.4.

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

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
naphtha (petroleum), hydrodesulphurized heavy	No data available	No data available	No data available	No data available
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-ethylhexanoic acid, zirconium salt	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

DNEL dermal exposure - Worker

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	No data available	No data available	No data available	No data available
naphtha (petroleum), hydrodesulphurized heavy	No data available	No data available	No data available	No data available
xylene (mix)	No data available	No data available	No data available	180
distillates (petroleum), hydrotreated light	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
2-butanone oxime	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	No data available	No data available	No data available	No data available
naphtha (petroleum), hydrodesulphurized heavy	No data available	No data available	No data available	No data available
xylene (mix)	No data available	No data available	No data available	108
distillates (petroleum), hydrotreated light	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
2-butanone oxime	No data available	No data available	No data available	No data available

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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	No data available	No data available	No data available	No data available
naphtha (petroleum), hydrodesulphurized heavy	No data available	No data available	No data available	No data available
xylene (mix)	289	289	No data available	77
distillates (petroleum), hydrotreated light	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
2-butanone oxime	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	No data available	No data available	No data available	No data available
naphtha (petroleum), hydrodesulphurized heavy	No data available	No data available	No data available	No data available
xylene (mix)	174	174	No data available	14.8
distillates (petroleum), hydrotreated light	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
2-butanone oxime	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	No data available	No data available	No data available	No data available
naphtha (petroleum), hydrodesulphurized heavy	No data available	No data available	No data available	No data available
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-ethylhexanoic acid, zirconium salt	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

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	No data available	No data available	No data available	No data available
naphtha (petroleum), hydrodesulphurized heavy	No data available	No data available	No data available	No data available
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-ethylhexanoic acid, zirconium salt	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

8.2 Exposure controls

General health and safety measures

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Take off immediately all contaminated clothing. Wash hands before breaks and at the end of workday. Do not breathe gases, vapour, spray or aerosols. Avoid contact with skin and eyes.

The following information applies for the uses indicated in subsection 1.2.

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.

Hand protection: No special requirements under normal use conditions.

Body protection: No special requirements under normal use conditions.

Respiratory protection: Respiratory protection is not normally required. However, inhalation of vapour, spray, gas or aerosols should be avoided.

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

Method / remark

Physical State: Liquid

Colour: Clear, Brown

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Odour: Product specific

Odour threshold: Not applicable

pH: Not applicable.

Melting point/freezing point (°C): Not determined

Initial boiling point and boiling range (°C): Not determined

Substance data, boiling point

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

Flash point (°C): ≈ 51

Sustained combustion: This product with a flashpoint between 21°C and 60°C supports combustion

Evaporation rate: Not determined

Flammability (solid, gas): Not determined

Upper/lower flammability limit (%): Not determined

Substance data, flammability or explosive limits, if available:

Method / remark

closed cup

UN Manual of Tests and Criteria, section 32, L.2

Vapour pressure: Not determined

Method / remark

Substance data, vapour pressure

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

Method / remark

Vapour density: Not determined

Relative density: 0.88 g/cm³ (20°C)

Solubility in / Miscibility with Water: Not miscible or difficult to mix

Substance data, solubility in water

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

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

Method / remark

Autoignition temperature: Not determined

Decomposition temperature: Not determined

Viscosity: Not determined

Explosive properties: Not explosive.

Oxidising properties: Not oxidising.

9.2 Other information

Surface tension (N/m): Not determined

Corrosion to metals

(according to IMDG/ADR regulation): Not determined

Substance data, dissociation constant, if available:

SECTION 10: Stability and reactivity

10.1 Reactivity

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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****Mixtures**

No test data is available on the mixture

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			
naphtha (petroleum), hydrodesulphurized heavy		No data available			
xylene (mix)	LD ₅₀	2000 - 5000		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			
2-butanone oxime		No data available			

Acute dermal toxicity

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

Acute inhalative toxicity

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

Irritation and corrosivity

Skin irritation and corrosivity

Ingredient(s)	Result	Species	Method	Exposure time
naphtha (petroleum), hydrotreated heavy	No data available			
naphtha (petroleum), hydrodesulphurized heavy	No data available			

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xylene (mix)	Irritant		Method not given	
distillates (petroleum), hydrotreated light	No data available			
2-ethylhexanoic acid, zirconium salt	No data available			
2-butanone oxime	No data available			

Eye irritation and corrosivity

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

Respiratory tract irritation and corrosivity

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

Sensitisation

Sensitisation by skin contact

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

Sensitisation by inhalation

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

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

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

Mixture data:

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

Substance data, where relevant and available:

Carcinogenicity

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

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	
naphtha (petroleum), hydrodesulphurized 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-ethylhexanoic acid, zirconium salt	No data available		No data available	
2-butanone oxime	No data available		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				
naphtha (petroleum), hydrodesulphurized heavy			No data available				
xylene (mix)			No data available				No evidence for reproductive toxicity
distillates (petroleum), hydrotreated light			No data available				
2-ethylhexanoic acid, zirconium salt			No data available				
2-butanone oxime			No data available				

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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**

Mixtures

No test 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			
naphtha (petroleum), hydrodesulphurized heavy		No data available			
xylene (mix)	LC ₅₀	1 - 10		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			
2-butanone oxime		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			
naphtha (petroleum), hydrodesulphurized heavy		No data available			
xylene (mix)	LC ₅₀	1 - 10		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			
2-butanone oxime		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			
naphtha (petroleum), hydrodesulphurized heavy		No data available			
xylene (mix)	LC ₅₀	1 - 10		Method not given	
distillates (petroleum), hydrotreated light		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			
2-butanone oxime		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			
naphtha (petroleum), hydrodesulphurized heavy		No data available			
xylene (mix)		No data available			
distillates (petroleum), hydrotreated light		No data available			
2-ethylhexanoic acid, zirconium salt		No data available			
2-butanone oxime		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			

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naphtha (petroleum), hydrodesulphurized heavy		No data available		
xylene (mix)	EC ₅₀	100		Method not given
distillates (petroleum), hydrotreated light		No data available		
2-ethylhexanoic acid, zirconium salt		No data available		
2-butanone oxime		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				
naphtha (petroleum), hydrodesulphurized heavy		No data available				
xylene (mix)	NOEC	1 - 10				
distillates (petroleum), hydrotreated light		No data available				
2-ethylhexanoic acid, zirconium salt		No data available				
2-butanone oxime		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				
naphtha (petroleum), hydrodesulphurized heavy		No data available				
xylene (mix)		No data available				
distillates (petroleum), hydrotreated light		No data available				
2-ethylhexanoic acid, zirconium salt		No data available				
2-butanone oxime		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				
naphtha (petroleum), hydrodesulphurized heavy		No data available				
xylene (mix)		No data available				
distillates (petroleum), hydrotreated light		No data available				
2-ethylhexanoic acid, zirconium salt		No data available				
2-butanone oxime		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:

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Biodegradation

Ready biodegradability - aerobic conditions

Ingredient(s)	Inoculum	Analytical method	DT ₅₀	Method	Evaluation
naphtha (petroleum), hydrotreated heavy					No data available
naphtha (petroleum), hydrodesulphurized heavy					No data available
xylene (mix)					Readily biodegradable
distillates (petroleum), hydrotreated light					No data available
2-ethylhexanoic acid, zirconium salt					No data available
2-butanone oxime					No data available

Ready biodegradability - anaerobic and marine conditions, if available:

Degradation in relevant environmental compartments, if available:

12.3 Bioaccumulative potentialPartition coefficient n-octanol/water (log K_{ow})

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

Bioconcentration factor (BCF)

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

12.4 Mobility in soil

Adsorption/Desorption to soil or sediment

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

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.

European Waste Catalogue:

16 03 05* - organic wastes containing dangerous substances.

Empty packaging**Recommendation:**

Dispose of observing national or local regulations.

SECTION 14: Transport information

Bourne Seal Natural

**ADR, RID, ADN, IMO/IMDG, ICAO/IATA**

14.1 UN number: 1263

14.2 UN proper shipping name:

Paint

14.3 Transport hazard class(es):

Class: 3

Label(s): 3

14.4 Packing group: III

14.5 Environmental hazards:

Environmentally hazardous: No

Marine pollutant: No

14.6 Special precautions for user: None known.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 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

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

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

MSDS code: 657361

Version: 02

Revision: 2014-02-06

Reason for revision:

Overall design adjusted in accordance with Regulation (EC) No 1907/2006, Annex II

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

- R66 - Repeated exposure may cause skin dryness or cracking.
- R10 - Flammable.
- R65 - Harmful: may cause lung damage if swallowed.
- R38 - Irritating to skin.
- R40 - Limited evidence of a carcinogenic effect.
- R43 - May cause sensitisation by skin contact.
- R41 - Risk of serious damage to eyes.
- R21 - Harmful in contact with skin.
- R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R20/21 - Harmful by inhalation and in contact with skin.
- R50/53 - Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- R52/53 - Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
- EUH066 - Repeated exposure may cause skin dryness or cracking.
- 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.
- H332 - Harmful if inhaled.
- H336 - May cause drowsiness or dizziness.
- H351 - Suspected of causing cancer if inhaled.
- 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.

Bourne Seal Natural**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

End of Safety Data Sheet