Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Regulation (EU) No. 2015/830. - United Kingdom (UK)

## SAFETY DATA SHEET

**Enviroline 405HT Part B** 

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

#### 1.1 Product identifier

: Enviroline 405HT Part B

Product name Product code

: NVA405

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

Identified uses		
Professional application of coatings and inks		
Uses advised against	Reason	
All Other Uses		

#### 1.3 Details of the supplier of the safety data sheet

International Farg AB Holmedalen 3 Aspereds Industriomrade SE-424 22 Angered Sweden

Tel: +46 (0) 31 928500 Fax: +46 (0) 31 928530

e-mail address of person : sdsfellinguk@akzonobel.com responsible for this SDS National contact

#### 1.4 Emergency telephone number

National advisory body/Poison Centre (For use only by licensed medical professionals.)Telephone number: +44 (0)844 892 0111Supplier: +46 8 33 12 31

### **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

Product definition : Mixture

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

Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Repr. 1B, H360F (Fertility) STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

See Section 11 for more detailed information on health effects and symptoms.

#### 2.2 Label elements

### **SECTION 2: Hazards identification**

Hazard pictograms	
Signal word	: Danger
Hazard statements	: Harmful if swallowed. Causes severe skin burns and eye damage.
	May cause an allergic skin reaction. May damage fertility. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life with long lasting effects.
Precautionary statements	very toxic to aquatic life with long lasting enects.
General	: Not applicable.
Prevention	: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product.
Response	: IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Immediately call a POISON CENTER or physician. IF ON SKIN: Take off contaminated clothing and wash it before reuse. IF IN EYES: Immediately call a POISON CENTER or physician.
Storage	: Store locked up.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	<ul> <li>Formaldehyde, polymer with benzenamine, hydrogenated 4,4'-methylenebis(cyclohexylamine) crystalline silica, respirable powder 4-nonylphenol, branched 2,2'-iminodiethylamine bisphenol A</li> </ul>
Supplemental label elements	:
	Wear appropriate respirator when ventilation is inadequate.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted to professional users.
2.3 Other hazards	
Other hazards which do not result in classification	: None known.



### **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

#### : Mixture

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Nota (s)	Туре
Formaldehyde, polymer with benzenamine, hydrogenated	CAS: 135108-88-2	≥10 - ≤25	Acute Tox. 4, H302 Skin Corr. 1C, H314 Skin Sens. 1, H317 STOT RE 2, H373 (oral) Aquatic Chronic 3, H412	-	[1]
4,4'-methylenebis (cyclohexylamine)	REACH #: 01-2119541673-38 EC: 217-168-8 CAS: 1761-71-3	≥10 - ≤25	Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT RE 2, H373 (oral) Aquatic Chronic 2, H411	-	[1]
crystalline silica, respirable powder	EC: 238-878-4 CAS: 14808-60-7	<10	STOT RE 1, H372	-	[1] [2]
4-nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8	<3	Acute Tox. 4, H302 Skin Corr. 1B, H314 Repr. 2, H361fd (Fertility and Unborn child) Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	-	[1] [5]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≤3	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304	С	[1] [2]
2,2'-iminodiethylamine	REACH #: 01-2119473793-27 EC: 203-865-4 CAS: 111-40-0	≤1.4	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
bisphenol A	REACH #: 01-2119457856-23 EC: 201-245-8 CAS: 80-05-7 Index: 604-030-00-0	<1	Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 1B, H360F (Fertility) STOT SE 3, H335	-	[1] [2]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

Occupational exposure limits, if available, are listed in Section 8.



### **SECTION 4: First aid measures**

### 4.1 Description of first aid measures

4.1 Description of first alu fi	neasures
General	: In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	<ul> <li>Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.</li> </ul>
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	<ul> <li>Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.</li> </ul>
Ingestion	: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

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

Eye contact	: Causes serious eye damage.
Inhalation	: May give off gas, vapour or dust that is very irritating or corrosive to the respirator system. Exposure to decomposition products may cause a health hazard. Seriou effects may be delayed following exposure.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. May cause burns to mouth, throat and stomach.
Over-exposure signs	/symptoms
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations

4.5 indication of any inimediate medical attention and special treatment needed		
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
Specific treatments	: No specific treatment.	



### **SECTION 5: Firefighting measures**

5.1 Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	In a fire or if heated, a pressure increase will occur and the container may burst. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
5.3 Advice for firefighters	
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training

Special protective	<ul><li>suitable training.</li><li>Fire-fighters should wear appropriate protective equipment and self-contained</li></ul>
equipment for fire-fighters	breathing apparatus (SCBA) with a full face-piece operated in positive pressure
	mode. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for
	chemical incidents.

### SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.		
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".		
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.		
6.3 Methods and material for	containment and cleaning up		
Small spill	: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.		
Large spill	: Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.		



### **SECTION 6: Accidental release measures**

6.4 Reference to other	
sections	

- : See Section 1 for emergency contact information.
  - See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

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### **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before

occupational hygiene handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

#### 7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

# 7.3 Specific end use(s)Recommendations: Not available.Industrial sector specific: Not available.solutions

### **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

#### 8.1 Control parameters

#### **Occupational exposure limits**

Product/ingredient name	Exposure limit values
crystalline silica, respirable powder	EH40/2005 WELs (United Kingdom (UK), 12/2011). TWA: 0.1 mg/m <sup>3</sup> 8 hours. Form: respirable dust
xylene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 441 mg/m <sup>3</sup> 15 minutes. STEL: 100 ppm 15 minutes. TWA: 220 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.
2,2'-iminodiethylamine	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. TWA: 4.3 mg/m <sup>3</sup> 8 hours. TWA: 1 ppm 8 hours.

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### **SECTION 8: Exposure controls/personal protection**

	bisphenol A			EH40/2005 WELs (United Kingdom (UK), 12/ TWA: 10 mg/m <sup>3</sup> 8 hours. Form: inhalable dust	
procedures atmosphere or b of the ventilation protective equip the following: E the assessment limit values and atmospheres - C of exposure to c (Workplace atm for the measure			atmosphere or h of the ventilation protective equip the following: E the assessment limit values and atmospheres - ( of exposure to o (Workplace atm for the measure documents for r	ontains ingredients with exposure limits, persona biological monitoring may be required to determin or other control measures and/or the necessity ment. Reference should be made to monitoring uropean Standard EN 689 (Workplace atmosph of exposure by inhalation to chemical agents for measurement strategy) European Standard EN Guide for the application and use of procedures chemical and biological agents) European Stand rospheres - General requirements for the perforr ment of chemical agents) Reference to nationa nethods for the determination of hazardous subs	ne the effectiveness to use respiratory standards, such as heres - Guidance for or comparison with 14042 (Workplace for the assessment dard EN 482 mance of procedures I guidance
	DNELs/DMELs No DNELs/DMELs available				
	PNECs No PNECs available				
8	8.2 Exposure controls				
-	Appropriate engineering controls	:	enclosures, loc	ns generate dust, fumes, gas, vapour or mist, us al exhaust ventilation or other engineering contr borne contaminants below any recommended o	ols to keep worker
	Individual protection measured				
	Hygiene measures	:	before eating, s Appropriate teo Contaminated of contaminated of	brearms and face thoroughly after handling cher smoking and using the lavatory and at the end of hniques should be used to remove potentially co work clothing should not be allowed out of the we clothing before reusing. Ensure that eyewash sta base to the workstation location.	f the working period. ontaminated clothing. orkplace. Wash
	Eye/face protection	:	assessment inc gases or dusts. unless the asse	complying with an approved standard should be dicates this is necessary to avoid exposure to liq If contact is possible, the following protection s essment indicates a higher degree of protection: face shield. If inhalation hazards exist, a full-fac d.	uid splashes, mists, hould be worn, chemical splash
	Skin protection				
	Hand protection	:	against chemic gloves. When protection class 374) is recomm protection class according to EN of type of glove into account the assessment. N and duration of workplace facto handled, physic protection), pot specifications p	esistant gloves classified under Standard EN 37 als and micro-organisms. Recommended: Vite prolonged or frequently repeated contact may or s of 6 (breakthrough time greater than 480 minut hended. When only brief contact is expected, a g s of 2 or higher (breakthrough time greater than N 374) is recommended. The user must check to selected for handling this product is the most ap e particular conditions of use, as included in the IOTICE: The selection of a specific glove for a p use in a workplace should also take into accour ors such as, but not limited to: Other chemicals w cal requirements (cut/puncture protection, dexter ential body reactions to glove materials, as well provided by the glove supplier. Barrier creams m eas of the skin but should not be applied once e	on® or Nitrile ccur, a glove with a tes according to EN glove with a 30 minutes that the final choice ppropriate and takes user's risk particular application at all relevant which may be rity, thermal as the instructions/ nay help to protect
	Body protection	:		ctive equipment for the body should be selected d and the risks involved and should be approved this product.	
	ate of issue/Date of revision		: 05/03/2018	3	AkzoNobel
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X.International.

### **SECTION 8: Exposure controls/personal protection**

Other skin protection	: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Respiratory protection	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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### **SECTION 9: Physical and chemical properties**

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9.1 Information on basic physical and chemical properties				
<u>Appearance</u>				
Physical state	:	Liquid.		
Colour	:	Off-white.		
Odour	:	Solvent.		
Odour threshold	:	Not available.		
рН	:	Not applicable.		
Melting point/freezing point	:	Not available.		
Initial boiling point and boiling range	:	Lowest known value: >220°C (>428°F)(Formaldehyde, polymer with benzenamine, hydrogenated).		
Flash point	:	Closed cup: 66°C		
Evaporation rate	:	Not available.		
Flammability (solid, gas)	:	Not available.		
Upper/lower flammability or explosive limits	:	Not available.		
Vapour pressure	:	Not available.		
Vapour density	:	Not available.		
Relative density	:	1.69		
Solubility(ies)	:	Insoluble in the following materials: cold water.		
Partition coefficient: n-octanol/ water	:	Not available.		
Auto-ignition temperature	:	Not available.		
Decomposition temperature	:	Not available.		
Viscosity	:	Kinematic (room temperature): 4621 mm <sup>2</sup> /s		
Explosive properties	:	Not available.		
Oxidising properties	:	Not available.		

### 9.2 Other information

No additional information.

SECTION 10: Stability and reactivity					
10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.	No specific test data related to reactivity available for this product or its ingredients.			
10.2 Chemical stability	: The product is stable.				
<b>10.3 Possibility of</b> : Under normal conditions of storage and use, hazardous reactions will not occu hazardous reactions					
10.4 Conditions to avoid	: No specific data.				
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### **SECTION 10: Stability and reactivity**

#### **10.5 Incompatible materials** : No specific data.

**10.6 Hazardous**: Under normal conditions of storage and use, hazardous decomposition products<br/>should not be produced.

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4-nonylphenol, branched	LD50 Oral	Rat	1300 mg/kg	-
xylene	LD50 Oral	Rat	4300 mg/kg	-
2,2'-iminodi(ethylamine)	LC50 Inhalation Dusts and mists	Rat	0.07 mg/l	4 hours
	LD50 Dermal	Rabbit	1090 mg/kg	-
	LD50 Oral	Rat	1080 mg/kg	-
bisphenol A	LD50 Oral	Rat	1200 mg/kg	-

Conclusion/Summary

: Not available.

#### Acute toxicity estimates

Route	ATE value
Oral	1976.7 mg/kg
Dermal	31395 mg/kg
Inhalation (vapours)	447.4 mg/l
Inhalation (dusts and mists)	6.758 mg/l

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-methylenebis (cyclohexylamine)	Eyes - Severe irritant	Rabbit	-	24 hours 10 microliters	-
4-nonylphenol, branched	Eyes - Severe irritant	Rabbit	-	100 milligrams	-
	Skin - Severe irritant	Rabbit	-	24 hours 500 milligrams	-
2,2'-iminodi(ethylamine)	Skin - Moderate irritant	Rabbit	-	500 milligrams	-
bisphenol A	Eyes - Severe irritant	Rabbit	-	24 hours 250 Micrograms	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 milligrams	-
	Skin - Mild irritant	Rabbit	-	250 milligrams	-
Conclusion/Summary	: Not available.		1		I
Sensitisation					
Conclusion/Summary	: Not available.				

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<b>Mutagenicity</b>				
Conclusion/Summary	:	Not available.		
<b>Carcinogenicity</b>				
Conclusion/Summary	:	Not available.		
Reproductive toxicity				
Conclusion/Summary	:	Not available.		
<b>Teratogenicity</b>				
Conclusion/Summary	:	Not available.		
Specific target organ toxicity (single exposure)				

### **SECTION 11: Toxicological information**

Product/ingredient name	Category	Route of exposure	Target organs
xylene	Category 3	Not applicable.	Respiratory tract irritation
2,2'-iminodi(ethylamine)	Category 3	Not applicable.	Respiratory tract irritation
bisphenol A	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Formaldehyde, polymer with benzenamine, hydrogenated 4,4'-methylenebis(cyclohexylamine) Quartz (SiO2)	Category 2	Oral	Not determined
	Category 2	Oral	Not determined
	Category 1	Not determined	Not determined

#### Aspiration hazard

Product/ingredient name	Result		
xylene	ASPIRATION HAZARD - Category 1		

Information on likely routes of exposure	: Not available.	
Potential acute health effects		
Eye contact	: Causes serious eye damage.	
Inhalation	: May give off gas, vapour or dust that is very irritating or corrosiv system. Exposure to decomposition products may cause a hea effects may be delayed following exposure.	
Skin contact	: Causes severe burns. May cause an allergic skin reaction.	
Ingestion	: Harmful if swallowed. May cause burns to mouth, throat and sto	omach.
Symptoms related to the phy	sical, chemical and toxicological characteristics	
Eye contact	: Adverse symptoms may include the following: pain watering redness	
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations	
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations	
	ts as well as chronic effects from short and long-term exposur	<u>e</u>
Short term exposure Potential immediate effects	: Not available.	
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### **SECTION 11: Toxicological information**

Potential delayed effects	: Not available.
Long term exposure	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Potential chronic health effe	ects
Not available.	
Conclusion/Summary	: Not available.
General	<ul> <li>May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.</li> </ul>
Carcinogenicity	: No known significant effects or critical hazards.
Mutagenicity	: No known significant effects or critical hazards.
Teratogenicity	: No known significant effects or critical hazards.
Developmental effects	: No known significant effects or critical hazards.
Fertility effects	: May damage fertility.

Other information

: Not available.

### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
4-nonylphenol, branched	Acute EC50 0.03 mg/l Marine water	Algae - Skeletonema costatum	72 hours
	Acute EC50 0.027 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 0.047 mg/l Marine water	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 17 µg/l Marine water	Fish - Pleuronectes americanus - Larvae	96 hours
	Chronic EC10 0.012 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Chronic NOEC 7.4 µg/l Fresh water	Fish - Pimephales promelas - Embryo	33 days
xylene	Acute LC50 8500 µg/l Marine water	Crustaceans - Palaemonetes pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
bisphenol A	Acute EC50 1.506 mg/l	Algae - Prorocentrum minimum - Exponential growth phase	72 hours
	Acute EC50 9940 µg/l Fresh water	Daphnia - Daphnia magna - Young	48 hours
	Acute LC50 4.32 mg/l Marine water	Crustaceans - Tigriopus japonicus - Adult	48 hours
	Acute LC50 3.5 mg/l Marine water	Fish - Rivulus marmoratus - Embryo	96 hours
	Chronic NOEC 2 mg/l Fresh water	Algae - Chlorolobion braunii - Exponential growth phase	4 days
	Chronic NOEC 10 µg/l Marine water	Crustaceans - Tigriopus japonicus - Nauplii	21 days
	Chronic NOEC 0.86 mg/l Fresh water	Daphnia - Daphnia magna -	21 days
	Chronic NOEC 0.2 µg/l Fresh water	Fish - Carassius auratus - Adult	90 days

Conclusion/Summary

: Not available.

### 12.2 Persistence and degradability

Not available.

### 12.3 Bioaccumulative potential

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### **SECTION 12: Ecological information**

Product/ingredient name	LogPow	BCF	Potential
4,4'-methylenebis (cyclohexylamine)	2.03	-	low
4-nonylphenol, branched	5.4	251.18864315	low
xylene	3.12	8.1 to 25.9	low
2,2'-iminodi(ethylamine)	-5.58	4.466835921	low
bisphenol A	3.4	43.651583224	low

12.4 Mobility in soil	
Soil/water partition coefficient (K <sub>oc</sub> )	: Not available.
Mobility	: Not available.

### 12.5 Results of PBT and vPvB assessment

- **PBT** : Not applicable.
- vPvB : Not applicable.

#### **12.6 Other adverse effects** : No known significant effects or critical hazards.

### **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **13.1 Waste treatment methods**

<u>Product</u>	
Methods of disposal	<ul> <li>The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.</li> </ul>
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.
Packaging	
Methods of disposal	<ul> <li>Dispose of containers contaminated by the product in accordance with local or national legal provisions. This material and its container must be disposed of as hazardous waste. Dispose of via a licensed waste disposal contractor.</li> </ul>
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

### **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number	UN3066	UN3066	UN3066
14.2 UN proper shipping name	PAINT	PAINT. Marine pollutant (4,4'- methylenebis (cyclohexylamine), 4-nonylphenol, branched)	PAINT
14.3 Transport hazard class(es)	8	8	8

### **SECTION 14: Transport information**

14.4 Packing group			II
14.5 Environmental hazards	Yes.	Yes.	No.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Tunnel code</u> (E)	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	The environmentally hazardous substance mark may appear if required by other transportation regulations.

IMDG Code Segregation : Not applicable. group

14.6 Special precautions for	:	Transport within user's premises: always transport in closed containers that are
user		upright and secure. Ensure that persons transporting the product know what to do in
		the event of an accident or spillage.

14.7 Transport in bulk	: Not available.
according to Annex II of	
Marpol and the IBC Code	

### **SECTION 15: Regulatory information**

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

#### EU Regulation (EC) No. 1907/2006 (REACH)

#### Annex XIV - List of substances subject to authorisation

#### Annex XIV

#### Substances of very high concern

Ingredient name	Intrinsic property	Status	Reference number	Date of revision
Bisphenol A 4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof]	Toxic to reproduction Substance of equivalent concern for environment	Candidate Candidate	- ED/169/2012	12/01/2017 18/12/2012

Annex XVII - Restrictions<br/>on the manufacture,<br/>placing on the market<br/>and use of certain<br/>dangerous substances,<br/>mixtures and articles: Restricted to professional users.Other EU regulations<br/>Europe inventory: Not determined.

### Special packaging requirements

- Containers to be fitted: Not applicable.with child-resistantfasteningsTactile warning of danger: Not applicable.

### **SECTION 15: Regulatory information**

Product/ingredient name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
4-nonylphenol, branched bisphenol A	-	-	Repr. 2, H361d (Unborn child) -	Repr. 2, H361f (Fertility) Repr. 1B, H360F
				(Fertility)

### Ozone depleting substances (1005/2009/EU)

Not listed.

### Prior Informed Consent (PIC) (649/2012/EU)

Ingredient name	Annex	Status	
Nonylphenols -	Annex I - Part 1 Annex I - Part 2	Listed Listed	
National regulations			

#### National regulations

References

:	Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation
	(EC) No. 1272/2008 (CLP)

### 15.2 Chemical safety

: No Chemical Safety Assessment has been carried out.

assessment

### **SECTION 16: Other information**

Indicates information that has changed from previously issued version.

Abbreviations and acronyms	<ul> <li>ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level</li> </ul>
	DNEL = Derived Minima Effect Level
	EUH statement = CLP-specific Hazard statement
	PBT = Persistent, Bioaccumulative and Toxic
	PNEC = Predicted No Effect Concentration
	RRN = REACH Registration Number
	vPvB = Very Persistent and Very Bioaccumulative

#### Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification		Justification
Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Repr. 1B, H360F (Fertility) STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	: H226 H302 H304 H312 H314 H315 H317 H318 H319 H330 H332 H335 H360F (Fertility) H361fd (Fertility and Unborn child) H372	Flammable liquid and vapour. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Fatal if inhaled. Harmful if inhaled. May cause respiratory irritation. May damage fertility. Suspected of damaging fertility. Suspected of damaging the unborn child. Causes damage to organs through prolonged or
Date of issue/Date of revision	: 05/03/2018	AkzoNobel

### **SECTION 16: Other information**

	1	
	H373 (oral) H373 H400 H410 H411 H412	repeated exposure. May cause damage to organs through prolonged or repeated exposure if swallowed. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
Full text of classifications : [CLP/GHS]	Acute Tox. 2, H330 Acute Tox. 4, H302 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 2, H411 Aquatic Chronic 3, H412 Asp. Tox. 1, H304 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Repr. 1B, H360F (Fertility) Repr. 2, H361fd (Fertility and Unborn child) Skin Corr. 1B, H314 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 1, H372	LONG-TERM AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Fertility and Unborn child) - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	STOT RE 2, H373 (oral) STOT RE 2, H373	EXPOSURE) - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (oral) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (REPEATED
	STOT SE 3, H335	EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3
Date of printing :	05/03/2018	
	05/03/2018	
Date of previous issue :	31/05/2017	
-	4	

#### Notice to reader

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Persons using the information must make their own determinations as to the suitability of the relevant product for their purposes prior to use. Where those purposes are other than as specifically recommended in this safety data sheet, then the user uses the product at their own risk.

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### **SECTION 16: Other information**

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