

In accordance with the Standard for Classification and Labelling of Chemical Substance and Material Safety Data Sheet, Article 10 Paragraph

## **SAFETY DATA SHEET**

### **ENVIROLINE 376F-60 Part B**

## Section 1. Chemical product and company identification

A. Product name : ENVIROLINE 376F-60 Part B

Product code : NVA395

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

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

C. Manufacturer : International Farg AB

Holmedalen 3

: +46 8 33 12 31

Aspereds Industriomrade SE-424 22 Angered

Sweden

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

Emergency telephone number (with hours of

operation)

e-mail address of person responsible for this SDS

: sdsfellinguk@akzonobel.com

## Section 2. Hazards identification

A. Hazard classification : ACUTE TOXICITY (oral) - Category 4

ACUTE TOXICITY (inhalation) - Category 4 SKIN CORROSION/IRRITATION - Category 1

SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1

SKIN SENSITIZATION - Category 1 CARCINOGENICITY - Category 1A

SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2

LONG-TERM AQUATIC HAZARD - Category 3

### B. GHS label elements, including precautionary statements

Symbol







Signal word : Danger

**Hazard statements** : Harmful if swallowed or if inhaled.

Causes severe skin burns and eye damage.

May cause an allergic skin reaction.

May cause cancer.

May cause damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.

### **Precautionary statements**

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## Section 2. Hazards identification

Prevention

: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Do not breathe vapour. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Response

: Get medical attention if you feel unwell. IF exposed or concerned: Get medical attention. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician. IF SWALLOWED: Immediately call a POISON CENTER or physician. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. Wash contaminated clothing before reuse. Immediately call a POISON CENTER or physician. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. 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.

Supplemental label elements

: Wear appropriate respirator when ventilation is inadequate.

C. Other hazards which do : None known.

not result in classification

## Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Ingredient name	Common name	CAS number	%	Classification
crystalline silica, respirable powder	silica, crystalline - quartz	14808-60-7	≥30 - <40	Carc. 1A, H350
Formaldehyde, polymer with benzenamine, hydrogenated	Formaldehyde, polymer with benzenamine, hydrogenated	135108-88-2	≥10 - <20	Acute Tox. 4, H302  Skin Corr. 1, H314  Eye Dam. 1, H318  Skin Sens. 1, H317  STOT RE 2, H373  (oral)  Aquatic Chronic 3, H412
4,4'-methylenebis (cyclohexylamine)	Methylenedi (cyclohexylamine)	1761-71-3	<10	Acute Tox. 4, H302  Skin Corr. 1, H314  Eye Dam. 1, H318  Skin Sens. 1, H317  STOT RE 2, H373  (oral)  Aquatic Chronic 2, H411

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# Section 3. Composition/information on ingredients

crystalline silica, respirable powder	Respirable content of crystalline silica in whole product	14808-60-7	<10	Carc. 1A, H350
				STOT RE 1, H372
benzyl alcohol	benzyl alcohol	100-51-6	<10	Acute Tox. 4, H302 Acute Tox. 4, H332
titanium dioxide	Titanium dioxide	13463-67-7	≥0.1 - <5	Carc. 2, H351
2,2'-iminodiethylamine	diethylenetriamine	111-40-0	≥1 - <5	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 2, H330 Skin Corr. 1, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335
1-methoxy-2-propanol	1-methoxy-2-propanol	107-98-2	<10	Flam. Liq. 3, H226 STOT SE 3, H336
xylene	xylene	1330-20-7	≥1 - <5	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H336 STOT RE 1, H372
bisphenol A	4,4'- isopropylidenediphenol	80-05-7	<10	Eye Dam. 1, H318
				Skin Sens. 1, H317 Repr. 2, H361 (Fertility) STOT SE 3, H335
ethylbenzene	ethylbenzene	100-41-4	≥0.1 - <5	Flam. Liq. 2, H225 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304

There are no ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

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

### Section 4. First aid measures

### A. Eye contact

: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.



### Section 4. First aid measures

### B. Skin contact

: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.

### C. Inhalation

: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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.

### D. Ingestion

: Get medical attention immediately. Call a poison center or physician. Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Chemical burns must be treated promptly by a physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### E. 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.

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.

See toxicological information (Section 11)

## Section 5. Firefighting measures

### A. Extinguishing media

Suitable extinguishing media

: Use an extinguishing agent suitable for the surrounding fire.

Unsuitable

extinguishing media

: None known.

### B. Specific hazards arising from the chemical

: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful 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.

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## Section 5. Firefighting measures

Hazardous thermal decomposition products

: Decomposition products may include the following materials: carbon dioxide

carbon monoxide
nitrogen oxides
metal oxide/oxides

C. Special protective equipment for fire-fighters

: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure

mode.

Special precautions 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.

### Section 6. Accidental release measures

- A. Personal precautions, protective equipment and emergency procedures
- : 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.
- B. 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.
- C. 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### A. 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. 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. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. 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 eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

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## Section 7. Handling and storage

- B. 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.

## Section 8. Exposure controls/personal protection

### A. Control parameters

### Occupational exposure limits

Ingredient name	Exposure limits
crystalline silica, respirable powder	Ministry of Labor (Republic of Korea, 8/2013).
	TWA: 0.05 mg/m <sup>3</sup> 8 hours. Form:
	Respirable fraction
crystalline silica, respirable powder	Ministry of Labor (Republic of Korea, 8/2013).
	TWA: 0.05 mg/m³ 8 hours. Form:
	Respirable fraction
titanium dioxide	Ministry of Labor (Republic of Korea,
	8/2013).
	TWA: 10 mg/m³ 8 hours. Form: total dust
	with less than 1% of free SiO2
2,2'-iminodiethylamine	Ministry of Labor (Republic of Korea,
	8/2013). Absorbed through skin.
	TWA: 4 mg/m³ 8 hours.
	TWA: 1 ppm 8 hours.
1-methoxy-2-propanol	Ministry of Labor (Republic of Korea,
	8/2013).
	STEL: 540 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 360 mg/m <sup>3</sup> 8 hours.
	TWA: 100 ppm 8 hours.
xylene	Ministry of Labor (Republic of Korea,
	8/2013).
	STEL: 655 mg/m³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 435 mg/m <sup>3</sup> 8 hours. TWA: 100 ppm 8 hours.
othydbonzono	• •
ethylbenzene	Ministry of Labor (Republic of Korea, 8/2013).
	,
	STEL: 545 mg/m³ 15 minutes. STEL: 125 ppm 15 minutes.
	TWA: 435 mg/m³ 8 hours.
	TWA: 433 fight 6 flours.
	TVVA. 100 ppin o nouis.

- controls
- B. Appropriate engineering : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
  - **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.



## Section 8. Exposure controls/personal protection

### **Personal protective equipment**

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.

Eye protection

: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead.

Hand protection

Use chemical resistant gloves classified under Standard EN 374: Protective gloves against chemicals and micro-organisms. Recommended: Viton® or Nitrile gloves. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/ puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

**Body protection** 

: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Hygiene measures

: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

## Section 9. Physical and chemical properties

A. Appearance

Physical state : Liquid. Colour : White. B. Odour : Solvent. C. Odour threshold : Not available. : Not applicable. E. Melting/freezing point : Not available.

F. Boiling point/boiling

range

: Lowest known value: >220°C (>428°F)(Formaldehyde, polymer with benzenamine, hydrogenated).

: Closed cup: 66°C (150.8°F) G. Flash point

: Not available. Fire point : Not available. H. Evaporation rate Flammability (solid, gas) : Not available. J. Lower and upper : Not available.

explosive (flammable) limits

K. Vapour pressure

: Not available.

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## Section 9. Physical and chemical properties

L. Solubility : Insoluble in the following materials: cold water.

M. Vapour density : Not available.

N. Relative density : 1.68

O. Partition coefficient: n-

octanol/water

: Not available.

P. Auto-ignition

: Not available.

temperature

Q. Decomposition temperature

: Not available.

temperature R. Viscosity

: Kinematic (room temperature): 22574 mm²/s (22574 cSt)

S. Molecular weight : Not applicable.

## Section 10. Stability and reactivity

**A. Chemical stability** : The product is stable.

Possibility of hazardous

reactions

: Under normal conditions of storage and use, hazardous reactions will not occur.

B. Conditions to avoid : No specific data.

C. Incompatible materials : No specific data.

D. Hazardous : Under normal conditions of storage and use, hazardous decomposition products

decomposition products should not be produced.

## Section 11. Toxicological information

A. Information on likely : N

routes of exposure

: Not available.

### Potential acute health effects

**Inhalation**: Harmful if inhaled. May give off gas, vapour or dust that is very irritating or corrosive

to the respiratory system. Exposure to decomposition products may cause a health

hazard. Serious effects may be delayed following exposure.

**Ingestion**: Harmful if swallowed. May cause burns to mouth, throat and stomach.

**Skin contact**: Causes severe burns. May cause an allergic skin reaction.

**Eye contact** : Causes serious eye damage.

#### Over-exposure signs/symptoms

**Inhalation** : No specific data.

**Ingestion** : Adverse symptoms may include the following:

stomach pains

**Skin contact**: Adverse symptoms may include the following:

pain or irritation

redness

blistering may occur

**Eye contact**: Adverse symptoms may include the following:

pain watering redness

B. Health hazards

**Acute toxicity** 

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## **Section 11. Toxicological information**

Product/ingredient name	Result	Species	Dose	Exposure
benzyl alcohol	LC50 Inhalation Vapour	Rat	>4178 mg/l	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1620 mg/kg	-
2,2'-iminodiethylamine	LC50 Inhalation Dusts and mists	Rat	0.07 mg/l	4 hours
	LD50 Dermal	Rabbit	1090 mg/kg	_
	LD50 Oral	Rat	1080 mg/kg	-
1-methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-
,	LD50 Oral	Rat	6600 mg/kg	-
xylene	LD50 Oral	Rat	4300 mg/kg	-
bisphenol A	LD50 Oral	Rat	1200 mg/kg	-
ethylbenzene	LC50 Inhalation Gas.	Rabbit	4000 ppm	4 hours
	LD50 Dermal	Rabbit	17800 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-

### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
4,4'-methylenebis	Eyes - Severe irritant	Rabbit	-	24 hours 10	-
(cyclohexylamine)				microliters	
benzyl alcohol	Skin - Mild irritant	Man	-	48 hours 16	-
				milligrams	
	Skin - Moderate irritant	Pig	-	100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours	-
				100	
				milligrams	
titanium dioxide	Skin - Mild irritant	Human	-	72 hours	-
				300	
				Micrograms	
		<b>D</b>		Intermittent	
2,2'-iminodiethylamine	Skin - Moderate irritant	Rabbit	-	500	-
4 11 0 1	Francis NATIAL South and	D - 1-1-11		milligrams	
1-methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	Skin - Mild irritant	Rabbit		milligrams 500	
	Skiii - Willa II Italii	Rabbit	-	milligrams	-
bisphenol A	Eyes - Severe irritant	Rabbit	_	24 hours	
Dispriendi A	Lyes - Severe irritant	Ιλαυσίι	-	250	_
				Micrograms	
	Skin - Mild irritant	Rabbit	_	24 hours	_
	Okiri iviid irritarit	rabbit		500	
				milligrams	
	Skin - Mild irritant	Rabbit	_	250	_
				milligrams	
ethylbenzene	Eyes - Severe irritant	Rabbit	_	500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	_
				milligrams	
		1	1	1	I

### **Sensitisation**

Not available.

### CMR - ISHA Article 42 Public Notice No 2013-38 Occupational Exposure Limits

Product/ingredient name	CAS number	Classification
Silica (Crystalline quartz)	14808-60-7	Carc. 1A
Silica (Crystalline quartz)	14808-60-7	Carc. 1A
Titanium dioxide	13463-67-7	Carc. 2
Ethyl benzene	100-41-4	Carc. 2

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## **Section 11. Toxicological information**

### **Mutagenicity**

Not available.

### **Carcinogenicity**

Not available.

### **Reproductive toxicity**

Not available.

### **Teratogenicity**

Not available.

### Specific target organ toxicity (single exposure)

Name	Category	Route of exposure	Target organs
2,2'-iminodiethylamine	Category 3	Not applicable.	Respiratory tract irritation
1-methoxy-2-propanol	Category 3	Not applicable.	Narcotic effects
xylene	Category 3	Not applicable.	Narcotic effects
bisphenol A	Category 3	Not applicable.	Respiratory tract irritation
ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation

### Specific target organ toxicity (repeated exposure)

Name		Route of exposure	Target organs
Formaldehyde, polymer with benzenamine, hydrogenated	Category 2	Oral	Not determined
4,4'-methylenebis(cyclohexylamine)	Category 2	Oral	Not determined
crystalline silica, respirable powder xylene ethylbenzene	Category 1 Category 2	Not determined Not determined Not determined	Not determined Not determined hearing organs

### **Aspiration hazard**

Name	Result
ethylbenzene	ASPIRATION HAZARD - Category 1

### Potential chronic health effects

### **Chronic toxicity**

Not available.

**General**: 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.

**Carcinogenicity**: May cause cancer. Risk of cancer depends on duration and level of exposure.

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 : No known significant effects or critical hazards.

### **ATE value**

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## **Section 11. Toxicological information**

Route	Result
Oral Dermal Inhalation (vapours) Inhalation (dusts and mists)	1947.5 mg/kg 26276.6 mg/kg 192.1 mg/l 3 mg/l

## **Section 12. Ecological information**

### A. Ecotoxicity

Product/ingredient name	Result	Species	Exposure
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
ethylbenzene	Acute EC50 3.6 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute LC50 18.4 to 25.4 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 5.1 to 5.7 mg/l Marine water	Fish - Menidia menidia	96 hours

### B. Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
ethylbenzene	-	-	Readily

### C. Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
4,4'-methylenebis (cyclohexylamine)	2.03	-	low
benzyl alcohol	0.87	-	low
titanium dioxide	-	352	low
2,2'-iminodiethylamine	-5.58	4.466835921	low
1-methoxy-2-propanol	<1	-	low
xylene	3.12	8.1 to 25.9	low
bisphenol A	3.4	43.651583224	low
ethylbenzene	3.6	15	low

### D. Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

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

## Section 13. Disposal considerations

### A. Disposal methods

: 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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## Section 13. Disposal considerations

### B. Disposal 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**

	UN	IMDG	IATA
A. UN number	UN3066	UN3066	UN3066
B. UN proper shipping name	PAINT	PAINT	PAINT
C. Transport hazard class(es)	8	8	8
D. Packing group	II	II	II
E. Environmental hazards	No.	No.	No.
F. Additional information	-	-	-

**IMDG Code Segregation** 

: Not applicable.

group

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

## **Section 15. Regulatory information**

### A. Regulation according to ISHA

ISHA article 37

: None of the components are listed.

(Harmful substances prohibited from manufacture)

ISHA article 38

: None of the components are listed.

(Harmful substances requiring permission)

**Article 2 of Youth** 

: Not applicable.

**Protection Act on Substances Hazardous** 

to Youth

### **Exposure Limits of Chemical Substances and Physical Factors**

The following components have an OEL: crystalline silica, respirable powder crystalline silica, respirable powder titanium dioxide 2,2'-iminodiethylamine 1-methoxy-2-propanol **Xylene** 

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ethylbenzene

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## **Section 15. Regulatory information**

Annex 11-3 (Exposure

standards established for harmful factors)

**ISHA Enforcement Regs** Annex 11-4 (Harmful factors subject to Work

**Environment** 

Measurement)

Annex 12-2 (Harmful **Factors Subject to** Special Health Check-

up)

Standard of Industrial

Safety and Health **Annex 12 (Hazardous** substances subject to control)

**ISHA Enforcement Regs**: None of the components are listed.

: The following components are listed: Diethylene triamine; Quartz; Quartz; Titanium

: The following components are listed: Diethylene triamine; Titanium dioxide; Xylene

dioxide; Xylene, o,m,p-isomers

**ISHA Enforcement Regs**: The following components are listed: Diethylenetriamine; Xylene

: Not applicable

B. Regulation according to Chemicals Control Act

K-Reach Article 20

(Toxic chemicals)

K-Reach Article 27

(Prohibited)

: None of the components are listed.

K-Reach Article 27

(Restricted)

: None of the components are listed.

**CSCA Article 11 (TRI)** : The following components are listed: 4,4'-Bisphenol A; Xylene; Ethylbenzene

Korea inventory : Not determined.

**CSCA Article 39** 

(Accident Precaution

Chemicals)

: Class: Class 4 - Flammable Liquid

: None of the components are listed.

C. Dangerous Materials Item: 4. Class 2 petroleums - Water-insoluble liquid **Safety Management Act** 

> Threshold: 1000 L Danger category: III

Signal word: Contact with sources of ignition prohibited

: Dispose of contents and container in accordance with all local, regional, national D. Wastes regulation

and international regulations.

E. Regulation according to other foreign laws

**Europe inventory** : Not determined. **United States inventory** 

(TSCA 8b)

: Not determined.

Japan inventory : Japan inventory (ENCS): Not determined.

Japan inventory (ISHL): Not determined.

Section 16. Other information

A. References : Not available. B. Date of issue/Date of : 31/05/2017

revision

C. Version : 3

Date of printing : 31/05/2017

D. Other

Indicates information that has changed from previously issued version.

Date of issue/Date of revision : 31/05/2017 AkzoNobel 13/14 Version 3



## **Section 16. Other information**

Key to abbreviations

: ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC = Intermediate Bulk Container

IMDG = International Maritime Dangerous Goods

LogPow = logarithm of the octanol/water partition coefficient

MARPOL = International Convention for the Prevention of Pollution From Ships,

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)

UN = United Nations

### Notice to reader

IMPORTANT NOTE: the information contained in this data sheet (as may be amended from time to time) is not intended to be exhaustive and is presented in good faith and believed to be correct as of the date on which it is prepared. It is the user's responsibility to verify that this data sheet is current prior to using the product to which it relates.

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