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

SAFETY DATA SHEET

Interzone 954GF Part B

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

1.1 Product identifier

: Interzone 954GF Part B

Product name Product code

: ZFA046

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)344 892 0111 (UK)	+353 (0)1 809 2566 (Eire)		
<u>Supplier</u>				
Telephone number	: +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]

Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 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	 Flammable liquid and vapour. Harmful if swallowed. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
General	: Not applicable.
Prevention	: Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. 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	: Keep cool.
Disposal	: Dispose of contents and container in accordance with all local, regional, national and international regulations.
Hazardous ingredients	 2-Propenoic acid, butyl ester, polymer with 1,3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether butan-1-ol 1,3-Cyclohexanedimethanamine benzyl alcohol
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	: Not applicable.
2.3 Othor bazards	

2.3 Other hazards Other hazards which do : None known. not result in classification

SECTION 3: Composition/information on ingredients

3.2 Mixtures

: Mixture

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SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Nota (s)	Туре
2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether	EC: 819-929-5 CAS: 1257085-86-1	≥50 - ≤75	Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	-	[1]
butan-1-ol	REACH #: 01-2119484630-38 EC: 200-751-6 CAS: 71-36-3 Index: 603-004-00-6	≥5 - ≤13	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
1, 3-Cyclohexanedimethanamine	EC: 219-941-5 CAS: 2579-20-6	≥10 - ≤20	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Aquatic Chronic 3, H412	-	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥5 - ≤10	Acute Tox. 4, H302 Acute Tox. 4, H332	-	[1]
Reaction mass of Ethylbenzene and M- Xylene and P-Xylene	REACH #: 01-2119488216-32 EC: 905-562-9	≤6	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	С	[1] [2]
Nitric acid, calcium salt, tetrahydrate	EC: 233-332-1 CAS: 13477-34-4	≤3	Ox. Sol. 3, H272 Eye Irrit. 2, H319 See Section 16 for the full text of the H statements declared above.	-	[1]

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.

Туре

[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.

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SECTION 4: First aid measures

4.1 Description of first aid measures

leasures
: 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.
: 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.
: 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. Seek medical attention.
 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Seek medical attention if irritation persists. Do NOT use solvents or thinners.
: If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
: 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

4.2 Most important symp	tonis and enects, both acute and delayed
<u>Potential acute health e</u>	ffects
Eye contact	: Causes serious eye damage.
Inhalation	: 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.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. May cause burns to mouth, throat and stomach.
<u>Over-exposure signs/sy</u>	<u>mptoms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: headache drowsiness/fatigue dizziness/vertigo muscle weakness unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
4.3 Indication of any imm	ediate 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 dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media		Do not use water jet.
5.2 Special hazards arising f	from	the substance or mixture
Hazards from the substance or mixture	:	Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard. 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.
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. 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, pro	tective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. 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. Use spark-proof tools and
explosion-proof equipment. 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.



SECTION 6: Accidental release measures

Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. 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.
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.

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. 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. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. 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.

7.2 Conditions for safe storage, including any incompatibilities

Store in accordance with local regulations. Store in a segregated and approved area. 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. Eliminate all ignition sources. Vapours are heavier than air and may spread along floors. Separate from oxidizing materials. 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 solutions	: Not available.

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



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SECTION 8: Exposure controls/personal protection

SECTION 8: Exposure controls/personal protection			
Product/ingredient name		Exposure limit values	
		EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 154 mg/m ³ 15 minutes. STEL: 50 ppm 15 minutes.	
Reaction mass of Ethylbenze and P-Xylene	ne and M-Xylene	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. STEL: 441 mg/m ³ 15 minutes. TWA: 50 ppm 8 hours. TWA: 220 mg/m ³ 8 hours. STEL: 100 ppm 15 minutes.	
Recommended monitoring procedures	atmosphere or b of the ventilation protective equip the following: E the assessment limit values and atmospheres - (of exposure to c (Workplace atm for the measure	ontains ingredients with exposure limits, personal, workplace biological monitoring may be required to determine the effectiveness in or other control measures and/or the necessity to use respiratory ment. Reference should be made to monitoring standards, such as uropean Standard EN 689 (Workplace atmospheres - Guidance for a of exposure by inhalation to chemical agents for comparison with measurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 ospheres - General requirements for the performance of procedures ment of chemical agents) Reference to national guidance nethods for the determination of hazardous substances will also be	
DNELs/DMELs No DNELs/DMELs available	- -		
<u>PNECs</u> No PNECs available			
8.2 Exposure controls			
Appropriate engineering controls	ventilation or ot contaminants b controls also ne	dequate ventilation. Use process enclosures, local exhaust her engineering controls to keep worker exposure to airborne elow any recommended or statutory limits. The engineering eed to keep gas, vapour or dust concentrations below any lower . Use explosion-proof ventilation equipment.	
Individual protection measu	res		
Hygiene measures	before eating, s Appropriate tec Contaminated v contaminated o	brearms and face thoroughly after handling chemical products, smoking and using the lavatory and at the end of the working period. hniques should be used to remove potentially contaminated clothing. work clothing should not be allowed out of the workplace. Wash clothing before reusing. Ensure that eyewash stations and safety bese to the workstation location.	
Eye/face protection	assessment inc gases or dusts. against liquid s worn, unless th	complying with an approved standard should be used when a risk dicates this is necessary to avoid exposure to liquid splashes, mists, Use eye protection according to EN 166, designed to protect plashes. If contact is possible, the following protection should be e assessment indicates a higher degree of protection: chemical and/or face shield. If inhalation hazards exist, a full-face respirator d instead.	
Skin protection			
Hand protection	against chemic gloves. When protection class 374) is recomm protection class	esistant gloves classified under Standard EN 374: Protective gloves als and micro-organisms. Recommended: Viton® or Nitrile prolonged or frequently repeated contact may occur, a glove with a s of 6 (breakthrough time greater than 480 minutes according to EN hended. When only brief contact is expected, a glove with a s of 2 or higher (breakthrough time greater than 30 minutes N 374) is recommended. The user must check that the final choice	



SECTION 8: Exposure controls/personal protection

		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.EN ISO 13688 When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods.
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 according to EN529. 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

9.1 Information on basic physical and chemical properties

Appearance		
Physical state	:	Liquid.
Colour		Colourless.
Odour		Amine-like.
Odour threshold	:	Not available.
pН	:	Not applicable.
Melting point/freezing point		Not available.
Initial boiling point and boiling range	:	Lowest known value: 119°C (246.2°F) (butan-1-ol).
Flash point	:	Closed cup: 32°C
Evaporation rate	:	Not available.
Flammability (solid, gas)	:	Not available.
Upper/lower flammability or explosive limits	:	Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
Vapour pressure	:	Not available.
Vapour density	:	Not available.
Relative density	:	0.99
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): 798 mm²/s
Explosive properties	:	Not available.
Date of issue/Date of revision	:	04/11/2020 AkzoNobe
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SECTION 9: Physical and chemical properties

Oxidising properties

: Not available.

9.2 Other information

No additional information.

SECTION 10: Stability	y a	and reactivity
10.1 Reactivity	:	No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	:	The product is stable.
10.3 Possibility of hazardous reactions	:	Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	:	Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	:	Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	:	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
butan-1-ol	LC50 Inhalation Vapour	Rat	24000 mg/m ³	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
1,	LD50 Oral	Rat	880 mg/kg	-
3-Cyclohexanedimethanamine			00	
benzyl alcohol	LC50 Inhalation Vapour	Rat	>4178 mg/l	4 hours
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1620 mg/kg	-
XYLENES - REACTION MASS OF	LC50 Inhalation Gas.	Rat	5000 ppm	4 hours
ETHYLBENZENE AND M- XYLENE AND P-XYLENE				
Nitric acid, calcium salt, tetrahydrate	LD50 Oral	Rat	3900 mg/kg	-

Conclusion/Summary : Not available.

Acute toxicity estimates

Route	ATE value
Oral	1923.7 mg/kg
Dermal	6666.7 mg/kg
Inhalation (vapours)	135.6 mg/l
Inhalation (dusts and mists)	27.03 mg/l

Irritation/Corrosion

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
butan-1-ol	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	0.005	-
	Skin - Moderate irritant	Rabbit	-	Mililiters 24 hours 20	
		Rabbit	-	milligrams	-
benzyl alcohol	Skin - Mild irritant	Man	-	48 hours 16	-
				milligrams	
	Skin - Moderate irritant	Pig	-	100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
XYLENES - REACTION	Eyes - Mild irritant	Rabbit	-	milligrams 87 milligrams	
MASS OF		Rabbit	-	or minigrams	-
ETHYLBENZENE AND M-					
XYLENE AND P-XYLENE					
	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				milligrams	
	Skin - Mild irritant	Rat	-	8 hours 60	-
	Skin - Moderate irritant	Rabbit	-	microliters 24 hours 500	_
		Rabbit	-	milligrams	-
	Skin - Moderate irritant	Rabbit	-	100 Percent	-
Nitric acid, calcium salt,	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
tetrahydrate				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	

Conclusion/Summary : Not available.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether	skin	Mouse	Sensitising
Conclusion/Summary	: Not available.		
<u>Mutagenicity</u>			
Conclusion/Summary	: Not available.		
Carcinogenicity			
Conclusion/Summary	: Not available.		
Reproductive toxicity			
Conclusion/Summary	: Not available.		
<u>Teratogenicity</u>			
Conclusion/Summary	: Not available.		

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
butan-1-ol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects
XYLENES - REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)



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SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
XYLENES - REACTION MASS OF ETHYLBENZENE AND M-XYLENE AND P-XYLENE	Category 2	Not determined	Not determined

Aspiration hazard

Product/ingredient name	Result
XYLENES - REACTION MASS OF ETHYLBENZENE AND M- XYLENE AND P-XYLENE	ASPIRATION HAZARD - Category 1

Information on likely routes : Not available. of exposure

Potential acute health effects

Eye contact	: Causes serious eye damage.
Inhalation	 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.
Skin contact	: Causes severe burns. May cause an allergic skin reaction.
Ingestion	: Harmful if swallowed. May cause burns to mouth, throat and stomach.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: headache drowsiness/fatigue dizziness/vertigo muscle weakness unconsciousness
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains

Delayed and immediate effects as well as chronic effects from short and long-term exposure

<u>Short term exposure</u>		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Long term exposure		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health eff	<u>ots</u>	
Not available.		
Conclusion/Summary	: Not available.	
General	: Once sensitized, a severe allergic reaction may occur when to very low levels.	subsequently exposed
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: No known significant effects or critical hazards.	
Date of issue/Date of revision Version : 1	: 04/11/2020 11/16	AkzoNobel

SECTION 11: Toxicological information

Teratogenicity	
Developmental effects	
Fertility effects	

- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.
- : No known significant effects or critical hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether	Acute EC50 0.029 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
5, ,	Acute EC50 0.9 mg/l	Daphnia - Daphnia magna	48 hours
	Acute LC50 28 mg/l	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC 0.0023 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	Chronic NOEC 0.32 mg/l	Daphnia - Daphnia magna	48 hours
	Chronic NOEC 3.2 mg/l	Fish - Oncorhynchus mykiss	96 hours
butan-1-ol	Acute EC50 1983000 to 2072000 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1910000 µg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether		16 % - Not	readily - 28 days	-	-
Conclusion/Summary	: Not available.			•	
Product/ingredient name	Aquatic half-life		Photolysis		Biodegradability
2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether			-		Not readily

12.3 Bioaccumulative potential

XYLENES - REACTION

ETHYLBENZENE AND M-XYLENE AND P-XYLENE

MASS OF

Product/ingredient name	LogPow	BCF	Potential
2-Propenoic acid, butyl ester, polymer with 1,	2.56	-	low
3-cyclohexanedimethanamine,			
reaction products with Bu			
glycidyl ether			
butan-1-ol	1	-	low
1,	0.783	-	low
3-Cyclohexanedimethanamine			

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Readily



SECTION 12: Ecological information

benzyl alcohol	0.87	-	low
XYLENES - REACTION	3.12	8.1 to 25.9	low
MASS OF			
ETHYLBENZENE AND M-			
XYLENE AND P-XYLENE			

12.4 Mobility in soil Soil/water partition coefficient (Koc) Mobility	: Not available. : Not available.
12.5 Results of PBT and vP	vB 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

Product

Methods of disposal	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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.

European waste catalogue (EWC)

<u>European waste catalogue (Ewc)</u>			
Code number	Waste designation		
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances		
Packaging			
Methods of disposal	 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. 		
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. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	UN3470	UN3470	UN3470





SECTION 14: 1	ransport information		
14.2 UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE. Marine pollutant (2-Propenoic acid, butyl ester, polymer with 1, 3-cyclohexanedimethanamine, reaction products with Bu glycidyl ether)	PAINT, CORROSIVE, FLAMMABLE
14.3 Transport hazard class(es)	8 (3)	8 (3)	8 (3)
14.4 Packing group	11	II	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> (D/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 Segrega group	tion : Not applicable.		
14.6 Special precaut user	•	ser's premises: always transpor Ensure that persons transporting	

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				
None of the components are listed.				
Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles				
Other EU regulations				
Europe inventory : All components are				
Special packaging requirements				

Date of issue/Date of revision : 04/11/2020 Version : 1 listed or exempted.



SECTION 15: Regulatory information

-	-
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
Ozone depleting substance Not listed.	<u>es (1005/2009/EU)</u>
Prior Informed Consent (P Not listed.	<u>PIC) (649/2012/EU)</u>
National regulations References	: Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II and Regulation (EC) No. 1272/2008 (CLP)
15.2 Chemical safety assessment	: No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

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

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

Classif	cation	Justification
Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	: H226 H272 H302 H304 H312 H314 H315 H317 H318 H319 H332 H335 H336 H373 H400 H410 H412	Flammable liquid and vapour. May intensify fire; oxidiser. Harmful if swallowed. May be fatal if swallowed and enters airways. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes serious exe skin reaction. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. Very toxic to aquatic life. Very toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.

:



SECTION 16: Other information

Full text of classifications : [CLP/GHS]	Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H312 Acute Tox. 4, H332 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Aquatic Chronic 3, H412 Asp. Tox. 1, H304 Eye Dam. 1, H318 Eye Irrit. 2, H319 Flam. Liq. 3, H226 Ox. Sol. 3, H272 Skin Corr. 1B, H314 Skin Irrit. 2, H315 Skin Sens. 1, H317 STOT RE 2, H373 STOT SE 3, H335 STOT SE 3, H336	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 OXIDIZING SOLIDS - Category 3 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 SPECIFIC TARGET ORGAN TOXICITY (SINGLE
Data of printing	04/11/2020	EXPOSURE) (Narcotic effects) - Category 3
	04/11/2020	
Date of issue/ Date of : revision	04/11/2020	
Date of previous issue	07/05/2017	
Version :	1	

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.

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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