SAFETY DATA SHEET

Interzone 954GF Part B

Section 1. Chemical product and company identification

GHS	prod	uct	identifier
		-	

: Interzone 954GF Part B

Product code

: ZFA046

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

	Identified us	es		
Professional application of coatings and inks				
Uses a	dvised against		Reason	
All Other Uses				
Supplier's details	: International Paint Ltd. Stoneygate Lane Felling Gateshead Tyne and Wear NE10 0JY UK Tel: +44 (0)191 469 6111	Fax: +44	(0)191 438 3711	
Emergency telephone number (with hours of operation)	: +44 (0)191 469 6111 (24	۲)		
National advisory body/ Poison Centre (For use only by licensed medical professionals.)	: +7 343 229 98 57			
e-mail address of person responsible for this SDS	: sdsfellinguk@akzonobel.com			

Akzo Nobel N.V., International Paint Ltd., 1990020, St. Petersburg, Russia

Tel: +7 812 747 30 52 Fax: +7 812 747 30 51

Section 2. Hazards identification

Classification of the substance or mixture	 FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 SKIN CORROSION/IRRITATION - Category 1B SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2 ACUTE AQUATIC HAZARD - Category 1
	LONG-TERM AQUATIC HAZARD - Category 1

GHS label elements

Section 2. Hazards identification

Hazard pictograms	
Signal word	: Danger
Hazard statements	 Flammable liquid and vapour. May be harmful if swallowed or in contact with skin. Causes severe skin burns and eye damage. May cause an allergic skin reaction. May cause damage to organs through prolonged or repeated exposure. (hearing organs) Very toxic to aquatic life with long lasting effects.
Precautionary statements	
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. Use explosion-proof electrical, ventilating, lighting and all material- handling equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Keep container tightly closed. Avoid release to the environment. Do not breathe vapour. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.
Response	: Collect spillage. Get medical attention if you feel unwell. 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. Rinse mouth. 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: Wash with plenty of soap and water. Call a POISON CENTER or physician if you feel unwell. Take off contaminated clothing and wash it before reuse. 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. Store in a well-ventilated place. Keep cool.
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.

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

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Ingredient name	% by weight	CAS number	Classification
Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane	≥50 - ≤75	1257085-86-1	Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410
xylene	≤13	1330-20-7	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315
Date of issue/Date of revision : 27/11/20	017		AkzoNobel

Section 3. Composition/information on ingredients

		5	
			Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304
1,3-Cyclohexanedimethanamine	≥10 - ≤16	2579-20-6	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Aquatic Chronic 3, H412
benzyl alcohol	≤10	100-51-6	Acute Tox. 4, H302 Acute Tox. 4, H332
ethylbenzene	≤3.4	100-41-4	Flam. Liq. 2, H225 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304
butan-1-ol	≤2.6	71-36-3	Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336
Nitric acid, calcium salt, tetrahydrate	≤3	13477-34-4	Ox. Sol. 3, H272 Eye Irrit. 2A, H319

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

Description of necessary first aid measures

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.
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.
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.

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Section 4. First aid measures : Get medical attention immediately. Call a poison center or physician. Wash out Ingestion 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. Most important symptoms/effects, acute and delayed 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 be harmful in contact with skin. May cause an allergic skin reaction. Ingestion : May be 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: 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 Indication of immediate medical attention and special treatment needed, if necessary 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

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Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
Specific hazards arising from the chemical	: 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
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.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel	:	No action shall be taken involving any personal risk or without Evacuate surrounding areas. Keep unnecessary and unprotect entering. Do not touch or walk through spilt material. Shut off No flares, smoking or flames in hazard area. Do not breathe v Provide adequate ventilation. Wear appropriate respirator whe inadequate. Put on appropriate personal protective equipment	cted personnel from all ignition sources. vapour or mist. en ventilation is
For emergency responders	:	If specialised clothing is required to deal with the spillage, take information in Section 8 on suitable and unsuitable materials. information in "For non-emergency personnel".	note of any
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with so and sewers. Inform the relevant authorities if the product has pollution (sewers, waterways, soil or air). Water polluting mate to the environment if released in large quantities. Collect spilla	caused environmental erial. May be harmful
Methods and material for con	ntai	nment and cleaning up	
Small spill	:	Stop leak if without risk. Move containers from spill area. Use explosion-proof equipment. Dilute with water and mop up if wa Alternatively, or if water-insoluble, absorb with an inert dry mat appropriate waste disposal container. Dispose of via a license contractor.	ater-soluble. erial and place in an
Large spill	:	Stop leak if without risk. Move containers from spill area. Use explosion-proof equipment. Approach the release from upwing sewers, water courses, basements or confined areas. Wash se effluent treatment plant or proceed as follows. Contain and co combustible, absorbent material e.g. sand, earth, vermiculite of and place in container for disposal according to local regulation Dispose of via a licensed waste disposal contractor. Contamin material may pose the same hazard as the spilt product. Note emergency contact information and Section 13 for waste disposal	d. Prevent entry into spillages into an illect spillage with non- or diatomaceous earth ns (see Section 13). nated absorbent s: see Section 1 for
Date of issue/Date of revision		: 27/11/2017	AkzoNobel

Section 7. Handling and storage

Precautions	for safe	handling
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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.
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.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Ingredient name	Exposure limits
xylene	РО МинЗдраСоц ПДК (Russian
	Federation, 9/2011).
	TWA: 50 mg/m ³ 8 hours. Form: vapor and/
	orgases
	CEIL: 150 mg/m ³ Form: vapor and/or gases
benzyl alcohol	РО МинЗдраСоц ПДК (Russian
	Federation, 9/2011).
	CEIL: 5 mg/m ³ Form: vapor and/or gases
ethylbenzene	РО МинЗдраСоц ПДК (Russian
	Federation, 9/2011).
	TWA: 50 mg/m ³ 8 hours. Form: vapor and/
	orgases
	CEIL: 150 mg/m ³ Form: vapor and/or gases
butan-1-ol	РО МинЗдраСоц ПДК (Russian
	Federation, 9/2011).
	TWA: 10 mg/m ³ 8 hours. Form: vapor and/
	orgases
	CEIL: 30 mg/m ³ Form: vapor and/or gases

Appropriate engineering controls

: 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. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.





Section 8. Exposu	re controls/personal protection
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.
Individual protection measu	res
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.
Eye/face 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.
Skin protection	
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. 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.
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.

Section 9. Physical and chemical properties

<u>Appearance</u>		
Physical state	: Liquid.	
Colour	: Colourless.	
Odour	: Amine-like.	
Odour threshold	: Not available.	
рН	: Not applicable.	
Melting point	: Not available.	
Boiling point	: Lowest known value: 136.16°C (277.1°F) (xylene).	
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Version : 1	7/15	

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Section 9. Physical and chemical properties

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Flash point	: Closed cup: 32°C (89.6°F)
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Lower and upper explosive (flammable) limits	: Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol)
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: 1
Solubility	: 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): 799 mm ² /s (799 cSt)

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
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.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
xylene	LD50 Oral	Rat	4300 mg/kg	-
1,	LD50 Oral	Rat	880 mg/kg	-
3-Cyclohexanedimethanamine				
benzyl alcohol	LC50 Inhalation Vapour	Rat	>4178 mg/l	4 hours
-	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1620 mg/kg	-
ethylbenzene	LC50 Inhalation Gas.	Rabbit	4000 ppm	4 hours
	LD50 Dermal	Rabbit	17800 mg/kg	-
	LD50 Oral	Rat	3500 mg/kg	-
butan-1-ol	LC50 Inhalation Vapour	Rat	24 mg/l	4 hours
	LD50 Dermal	Rabbit	3400 mg/kg	-
	LD50 Oral	Rat	790 mg/kg	-
Nitric acid, calcium salt, tetrahydrate	LD50 Oral	Rat	3900 mg/kg	-

Irritation/Corrosion



Section 11. Toxicological information

Product/ingredient name	Result	Species	Score	Exposure	Observation
benzyl alcohol	Skin - Mild irritant	Man	-	48 hours 16	-
				milligrams	
	Skin - Moderate irritant	Pig	-	100 Percent	-
	Skin - Moderate irritant	Rabbit	-	24 hours 100	-
				milligrams	
ethylbenzene	Eyes - Severe irritant	Rabbit	-	500	-
				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				milligrams	
butan-1-ol	Eyes - Severe irritant	Rabbit	-	24 hours 2	-
				milligrams	
	Eyes - Severe irritant	Rabbit	-	0.005	-
				Mililiters	
	Skin - Moderate irritant	Rabbit	-	24 hours 20	-
				milligrams	
Nitric acid, calcium salt,	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
tetrahydrate				milligrams	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				milligrams	

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane	skin	Mouse	Sensitising

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
xylene	Category 3	Not applicable.	Respiratory tract irritation
ethylbenzene	Category 3	Not applicable.	Respiratory tract irritation
butan-1-ol	Category 3	Not applicable.	Respiratory tract irritation and Narcotic effects

Specific target organ toxicity (repeated exposure)

Name	·····	Route of exposure	Target organs
ethylbenzene	Category 2	Not determined	hearing organs

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Aspiration hazard

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Section 11. Toxicological information

Name	Result
	ASPIRATION HAZARD - Category 1 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 be harmful in contact with skin. May cause an allergic skin reaction.
Ingestion	:	May be 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

Short term exposure	
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 effe	<u>ects</u>
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	: 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	: No known significant effects or critical hazards.

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Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	3139.9 mg/kg
Dermal	4618 mg/kg
Inhalation (vapours)	43.14 mg/l

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane	Acute EC50 0.029 mg/l	Algae - Pseudokirchneriella subcapitata	72 hours
	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
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
butan-1-ol	Acute EC50 1983 to 2072 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 1910 mg/l Fresh water	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	96 hours

Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane	41102286	16 % - Not readily -	28 days	-	-
Product/ingredient name	Aquatic half-life		Photolysis	S	Biodegradability
Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane ethylbenzene	-		-		Not readily Readily

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Section 12. Ecological information

Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane	2.56	-	low
xylene	3.12	8.1 to 25.9	low
1,	0.783	-	low
3-Cyclohexanedimethanamine			
benzyl alcohol	0.87	-	low
ethylbenzene	3.6	15	low
butan-1-ol	1	-	low

Mobility in soil

Soil/water partition	
coefficient (Koc)	

: Not available.

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

Section 13. Disposal considerations

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. 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
UN number	UN3470	UN3470	UN3470
UN proper shipping name	PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE. Marine pollutant (Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane)	PAINT, CORROSIVE, FLAMMABLE
Transport hazard class(es)	8 (3)	8 (3)	8 (3)

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Section 14. Transport information

Packing group	11	11	11
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. Tunnel code (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 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

 Safety, health and environmental regulations specific for the product
 : No known specific national and/or regional regulations applicable to this product (including its ingredients).

 International regulations
 : No known specific national and/or regional regulations applicable to this product

 Chemical Weapon Convention List Schedules L II & III Chemicals

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

References

: STATE STANDARD OF RUSSIAN FEDERATION No. 19433-88 'Hazardous Cargo. Classification and Labelling' Labour Code of the Russian Federation No. 197-FZ of 30 December 2001



Section 16. Other information

Justification

Classification		Justification		
FLAMMABLE LIQUIDS - Category 3 ACUTE TOXICITY (oral) - Category 5 ACUTE TOXICITY (dermal) - Category 5 SKIN CORROSION/IRRITATION - Category 1B SKIN SENSITIZATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) (hearing organs) - Category 2 ACUTE AQUATIC HAZARD - Category 1 LONG-TERM AQUATIC HAZARD - Category 1		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method		
History		•		
Date of printing	: 27/11/2017			
Date of issue/Date of revision	: 27/11/2017			
Date of previous issue	: 06/06/2016	06/06/2016		
Version	: 1			
Key to abbreviations	Goods by Inland Waterwa ADR = The European Ag Dangerous Goods by Roa ATE = Acute Toxicity Esti BCF = Bioconcentration F GHS = Globally Harmonia IATA = International Air T IBC = Internediate Bulk (IMDG = International Mar LogPow = logarithm of the MARPOL = International 1973 as modified by the F	ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = Internediate 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) RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail		
References	: Not available.	Not available.		

✓ Indicates information that has changed from previously issued version.

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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Section 16. Other information

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