

SAFETY DATA SHEET

Interzone 954GF Part B

Section 1. Identification

Interzone 954GF Part B : GHS product identifier

ZFA046 : Product code

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

AkzoNobel Saudi Arabia Ltd.

PO Box 37 Dammam 31411 Saudi Arabia

+966 55 388 0087

Tel: +966 3 812 1044 Fax: +966 3 812 1169

+966 3 812 1044 : **Emergency telephone**

number (with hours of

: Supplier's details

operation)

: National advisory body/ Poison Centre (For use only

by licensed medical professionals.)

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

Section 2. Hazards identification

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

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 3.4%

: Classification of the substance or mixture

GHS label elements











: Hazard pictograms

Danger : Signal word

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: Hazard statements

Section 2. Hazards identification

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

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.

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.

Store locked up. Store in a well-ventilated place. Keep cool.

Dispose of contents and container in accordance with all local, regional, national and international regulations.

Wear appropriate respirator when ventilation is inadequate.

: Prevention

: Response

: Storage: Disposal

: Supplemental label elements

: Other hazards which do not result in classification

Section 3. Composition/information on ingredients

Mixture : Substance/mixture

Classification	CAS number	% by weight	Ingredient name
Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	1257085-86-1	≥50 - ≤75	Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane
Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335 Asp. Tox. 1, H304	1330-20-7	≥10 - ≤16	xylene
Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Aquatic Chronic 3, H412	2579-20-6	≥5 - ≤14	1,3-Cyclohexanedimethanamine

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None known.

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Section 3. Composition/information on ingredients

Acute Tox. 4, H302 Acute Tox. 4, H332	100-51-6	≥5 - ≤10	benzyl alcohol
Flam. Liq. 2, H225 Acute Tox. 5, H303 Acute Tox. 4, H332 Skin Irrit. 3, H316 Eye Irrit. 2A, H319 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304	100-41-4	≤4.8	ethylbenzene
Flam. Liq. 3, H226 Acute Tox. 4, H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	71-36-3	≤3	butan-1-ol
Ox. Sol. 3, H272 Eye Irrit. 2A, H319	13477-34-4	≤3	Nitric acid, calcium salt, tetrahydrate

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

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.

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. Seek medical attention. 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.

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.

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

: Eye contact

: Inhalation

: Skin contact

: Ingestion



: Inhalation

Section 4. First aid measures

waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

Causes serious eye damage. : Eye contact

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.

Causes severe burns. May be harmful in contact with skin. May cause an allergic : Skin contact

skin reaction.

May be harmful if swallowed. May cause burns to mouth, throat and stomach. : Ingestion

Over-exposure signs/symptoms

Adverse symptoms may include the following: : Eye contact

pain watering redness

Adverse symptoms may include the following: : Inhalation

headache drowsiness/fatigue

dizziness/vertigo muscle weakness unconsciousness

Adverse symptoms may include the following: : Skin contact

pain or irritation

redness

blistering may occur

Adverse symptoms may include the following: : Ingestion

stomach pains

Indication of immediate medical attention and special treatment needed, if necessary

In case of inhalation of decomposition products in a fire, symptoms may be delayed. : Notes to physician The exposed person may need to be kept under medical surveillance for 48 hours.

No specific treatment. : Specific treatments

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.

: Protection of first-aiders

See toxicological information (Section 11)

Section 5. Firefighting measures

Extinguishing media

Use dry chemical, CO₂, water spray (fog) or foam.

: Suitable extinguishing

media

Do not use water jet. Unsuitable extinguishing media

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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.

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: Specific hazards arising from the chemical

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Section 5. Firefighting measures

Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides

: Hazardous thermal decomposition products

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 actions 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 protective equipment for fire-fighters

Section 6. Accidental release measures

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. 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 non-emergency personnel

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".

: For emergency responders

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.

: Environmental precautions

Methods and material for containment and cleaning up

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

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

Precautions for safe handling

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,

: Protective measures

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Section 7. Handling and storage

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.

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.

: Advice on general occupational hygiene

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 wellventilated 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.

: Conditions for safe storage, including any incompatibilities

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Exposure limits	Ingredient name
ACGIH TLV (United States, 3/2017).	xylene
STEL: 651 mg/m³ 15 minutes.	
STEL: 150 ppm 15 minutes.	
TWA: 434 mg/m ³ 8 hours.	
TWA: 100 ppm 8 hours.	
ACGIH TLV (United States, 3/2017).	ethylbenzene
TWA: 20 ppm 8 hours.	
ACGIH TLV (United States, 3/2015).	butan-1-ol
TWA: 20 ppm 8 hours.	

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.

: Appropriate engineering 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.

: Environmental exposure controls

Individual protection measures

Wash hands, forearms and face thoroughly after handling chemical products, before : Hygiene measures 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.

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. Use eye protection according to EN 166, designed to protect against liquid splashes. 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.

: Eye/face protection

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Section 8. Exposure controls/personal protection

Skin 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.

: Hand 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.

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.

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.

: Body protection

: Other skin protection

: Respiratory protection

Section 9. Physical and chemical properties

Appearance

Liquid. : Physical state

Colourless. : Colour Amine-like. : Odour

Not available. : Odour threshold

Not applicable. : pH

Not available. : Melting point
Lowest known value: 136.16°C (277.1°F) (xylene). : Boiling point

Closed cup: 37°C (98.6°F)

: Flash point

Not available. : Evaporation rate

Not available. : Flammability (solid, gas)

Greatest known range: Lower: 1.3% Upper: 13% (benzyl alcohol) : Lower and upper explosive (flammable) limits

Not available. : Vapour pressure

Not available. : Vapour density

1 : Relative density

Insoluble in the following materials: cold water. : Solubility

Not available. : Partition coefficient: noctanol/water

Not available. : Auto-ignition temperature

Not available. : Decomposition temperature

Vinematia (room temperature): 700 mm²/s (700 eSt)

Kinematic (room temperature): 799 mm²/s (799 cSt) : **Viscosity**

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Section 10. Stability and reactivity

No specific test data related to reactivity available for this product or its ingredients. : Reactivity

The product is stable. : Chemical stability

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

reactions

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, : C

braze, solder, drill, grind or expose containers to heat or sources of ignition.

: Conditions to avoid

Reactive or incompatible with the following materials:

oxidizing materials

: Incompatible materials

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

: Hazardous decomposition

products

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Exposure	Dose	Species	Result	Product/ingredient name
4 hours	5000 ppm	Rat	LC50 Inhalation Gas.	xylene
-	4300 mg/kg	Rat	LD50 Oral	
-	880 mg/kg	Rat	LD50 Oral	1,
				3-Cyclohexanedimethanamine
4 hours	>4178 mg/l	Rat	LC50 Inhalation Vapour	benzyl alcohol
-	2000 mg/kg	Rabbit	LD50 Dermal	
-	1620 mg/kg	Rat	LD50 Oral	
-	>5000 mg/kg	Rabbit	LD50 Dermal	ethylbenzene
-	3500 mg/kg	Rat	LD50 Oral	
4 hours	24 mg/l	Rat	LC50 Inhalation Vapour	butan-1-ol
-	3400 mg/kg	Rabbit	LD50 Dermal	
-	3900 mg/kg	Rat	LD50 Oral	Nitric acid, calcium salt,
				tetrahydrate

<u>Irritation/Corrosion</u>

Observation	Exposure	Score	Species	Result	Product/ingredient name
-	87 milligrams	-	Rabbit	Eyes - Mild irritant	xylene
_	24 hours 5	_	Rabbit	Eyes - Severe irritant	
	milligrams				
-	8 hours 60	-	Rat	Skin - Mild irritant	
	microliters				
-	24 hours 500	-	Rabbit	Skin - Moderate irritant	
	milligrams				
-	100 Percent	-	Rabbit	Skin - Moderate irritant	
-	48 hours 16	-	Man	Skin - Mild irritant	benzyl alcohol
	milligrams		5.		
-	100 Percent	-	Pig	Skin - Moderate irritant	
-	24 hours 100	-	Rabbit	Skin - Moderate irritant	
	milligrams		Dabbit	Francisco Constant	- Ora Haranasa
-	500	-	Rabbit	Eyes - Severe irritant	ethylbenzene
	milligrams		Dobbit	Claim Mild invitant	
-	24 hours 15	_	Rabbit	Skin - Mild irritant	
	milligrams 24 hours 2		Rabbit	Eyes - Severe irritant	butan-1-ol
_	milligrams	_	Γαυυίι	Eyes - Severe imiani	butaii- i-oi
	0.005		Rabbit	Eyes - Severe irritant	
-	0.003	_	ιλαυυιι	Lyes - Severe initant	

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Section 11. Toxicological information

	Mililiters				
-	24 hours 20	-	Rabbit	Skin - Moderate irritant	
	milligrams				
-	24 hours 500	-	Rabbit	Eyes - Mild irritant	Nitric acid, calcium salt,
	milligrams				tetrahydrate
-	24 hours 500	-	Rabbit	Skin - Mild irritant	-
	milligrams				

Sensitisation

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

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Target organs	Route of exposure	Category	Name
Respiratory tract irritation	Not applicable.	Category 3	xylene
Respiratory tract irritation and Narcotic effects	Not applicable.	Category 3	butan-1-ol

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

Result	Name
ASPIRATION HAZARD - Category 1	xylene
ASPIRATION HAZARD - Category 1	ethylbenzene

Not available. : Information on likely routes

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of exposure

Potential acute health effects

Causes serious eye damage. : Eye contact

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.

: Inhalation

Causes severe burns. May be harmful in contact with skin. May cause an allergic skin reaction.

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: Skin contact

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Section 11. Toxicological information

May be harmful if swallowed. May cause burns to mouth, throat and stomach. : Ingestion

Symptoms related to the physical, chemical and toxicological characteristics

Adverse symptoms may include the following: : Eye contact

pain watering

redness

Adverse symptoms may include the following: : Inhalation

headache

drowsiness/fatigue dizziness/vertigo muscle weakness unconsciousness

Adverse symptoms may include the following: : Skin contact

pain or irritation

redness

blistering may occur

Adverse symptoms may include the following: : Ingestion

stomach pains

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

Short term exposure

Not available. : Potential immediate

effects

Not available. : Potential delayed effects

Long term exposure

Not available. : Potential immediate

effects

Not available. : Potential delayed effects

Potential chronic health effects

Not available.

May cause damage to organs through prolonged or repeated exposure. Once : General

sensitized, a severe allergic reaction may occur when subsequently exposed to very

low levels.

No known significant effects or critical hazards. : 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

Numerical measures of toxicity

Acute toxicity estimates

ATE value	Route
2882.3 mg/kg	Oral
4618 mg/kg	Dermal
36764.7 ppm	Inhalation (gases)
92.44 mg/l	Inhalation (vapours)

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Section 12. Ecological information

Toxicity

Exposure	Species	Result	Product/ingredient name
72 hours	Algae - Pseudokirchneriella subcapitata	Acute EC50 0.029 mg/l	Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane
48 hours	Daphnia - Daphnia Magna	Acute EC50 0.9 mg/l	
96 hours	Fish - Oncorhynchus mykiss	Acute LC50 28 mg/l	
72 hours	Algae - Pseudokirchneriella subcapitata	Chronic NOEC 0.0023 mg/l	
48 hours	Daphnia - Daphnia magna	Chronic NOEC 0.32 mg/l	
96 hours	Fish - Oncorhynchus mykiss	Chronic NOEC 3.2 mg/l	
48 hours	Crustaceans - Palaemonetes pugio	Acute LC50 8500 μg/l Marine water	xylene
96 hours	Fish - Pimephales promelas	Acute LC50 13400 µg/l Fresh water	
48 hours	Daphnia - Daphnia magna	Acute EC50 1983 to 2072 mg/l Fresh water	butan-1-ol
96 hours	Fish - Pimephales promelas - Juvenile (Fledgling, Hatchling, Weanling)	Acute LC50 1910 mg/l Fresh water	

Persistence and degradability

Inoculum	Dose	Result		Test	Product/ingredient name
-	-	16 % - Not readily -	28 days	41102286	Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane
		_			

Biodegradability	Photolysis	Aquatic half-life	Product/ingredient name
Not readily	-		Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane

Bioaccumulative potential

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

Mobility in soil

Not available. : Soil/water partition coefficient (Koc)

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Section 12. Ecological information

No known significant effects or critical hazards.

: Other adverse effects

Section 13. Disposal considerations

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.

: Disposal methods

Section 14. Transport information

IATA	IMDG	UN	
UN3470	UN3470	UN3470	UN number
PAINT, CORROSIVE, FLAMMABLE	PAINT, CORROSIVE, FLAMMABLE. Marine pollutant (Polymer containing amino, substituted amino, aminocarbonyl substituted carbopolycycle with hydroxy epoxy alkane)	PAINT, CORROSIVE, FLAMMABLE	UN proper shipping name
8 (3)	8 (3)	8 (3)	Transport hazard class(es)
II	II	II	Packing group
No.	Yes.	No.	Environmental hazards
The environmentally hazardous substance mark may appear if required by other transportation regulations.	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.	-	Additional information

Not applicable.

: IMDG Code Segregation group

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.

: Special precautions for user

Not available.

: Transport in bulk according to Annex II of Marpol and the IBC Code

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Section 15. Regulatory information

No known specific national and/or regional regulations applicable to this product (including its ingredients).

Safety, health and environmental regulations specific for the product

Section 16. Other information

Justification

Justification	Classification
On basis of test data	Flam. Liq. 3, H226
Calculation method	Acute Tox. 5, H303
Calculation method	Acute Tox. 5, H313
Calculation method	Skin Corr. 1B, H314
Calculation method	Skin Sens. 1, H317
Calculation method	STOT RE 2, H373 (hearing organs)
Calculation method	Aquatic Acute 1, H400
Calculation method	Aquatic Chronic 1, H410

History

25/03/2019 : Date of printing

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revision

: Key to abbreviations

23/11/2018 : Date of previous issue

2 : Version

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

Not available. : References

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.

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Section 16. Other information

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