

SAFETY DATA SHEET

Chartek 7E Grey Part A

Section 1. Identification

Chartek 7E Grey Part A HCA764

: GHS product identifier

: 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	: Supplier's details
Tel: +966 3 812 1044 Fax: +966 3 812 1169	
+966 3 812 1044	: Emergency telephone number (with hours of operation)
+966 55 388 0087	: <u>National advisory body/</u> <u>Poison Centre (For use only</u> <u>by licensed medical</u> <u>professionals.)</u>
sdsfellinguk@akzonobel.com	: e-mail address of person responsible for this SDS
Section 2. Hazards identification	
SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 TOXIC TO REPRODUCTION (Fertility) - Category 1B TOXIC TO REPRODUCTION (Unborn child) - Category 1B ACUTE AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 2	: Classification of the substance or mixture
GHS label elements	Hazard pictograms
Danger Causes serious eye irritation. Causes skin irritation.	 Signal word Hazard statements
May cause an allergic skin reaction. May damage fertility or the unborn child. Toxic to aquatic life with long lasting effects. <u>Precautionary statements</u>	

: 09/08/2018

Section 2. Hazards identification

Obtain special instructions before use. Do not handle until all safety precautions : Prevention have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Avoid release to the environment. Avoid breathing dust. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Collect spillage. IF exposed or concerned: Get medical attention. IF ON SKIN: : Response Wash with plenty of soap and water. 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. If eye irritation persists: Get medical attention. Store locked up. : Storage Dispose of contents and container in accordance with all local, regional, national : Disposal and international regulations. Wear appropriate respirator when ventilation is inadequate. : Supplemental label elements

: Other hazards which do not result in classification

None known.

Section 3. Composition/information on ingredients

Mixture

: Substance/mixture

Classification	CAS number	% by weight	Ingredient name
Skin Irrit. 2, H315	25068-38-6	≥25 - ≤50	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin
Eye Irrit. 2A, H319			
Skin Sens. 1, H317			
Aquatic Chronic 2, H411			
Repr. 1B, H360FD (Fertility and Unborn child)	10043-35-3	≥25 - ≤50	boric acid
Aquatic Acute 1, H400 Aquatic Chronic 1, H410	7779-90-0	≤5	trizinc bis(orthophosphate)
Aquatic Acute 1, H400	-	≤3	4-tert-butylphenyl diphenyl phosphate bis (4-tert-butylphenyl) phenyl phosphate triphenyl phosphate
Aquatic Chronic 1, H410			F F

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

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower : Eye contact eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.

Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention. 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.

: 09/08/2018

: Inhalation



X.International.

Section 4. First aid measures		
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. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.	:	Skin contact
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. Get medical attention. 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.	:	Ingestion
Most important symptoms/effects, acute and delayed Potential acute health effects		
Causes serious eye irritation.	:	Eye contact
No known significant effects or critical hazards.	:	Inhalation
Causes skin irritation. May cause an allergic skin reaction.	:	Skin contact
Irritating to mouth, throat and stomach.	:	Ingestion
Over-exposure signs/symptoms		
Adverse symptoms may include the following: pain or irritation watering redness	:	Eye contact
Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	:	Inhalation
Adverse symptoms may include the following: irritation redness reduced foetal weight increase in foetal deaths skeletal malformations	:	Skin contact
Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	:	Ingestion
Indication of immediate medical attention and special treatment needed, if nec	<u>es</u> s	sary
Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.		Notes to physician
No specific treatment.	:	Specific treatments
No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumos are still present, the resource should wear an appropriate	:	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

Extinguishing media

Use an extinguishing agent suitable for the surrounding fire.

None known.

: Suitable extinguishing

: Unsuitable extinguishing

media

media This material is toxic to aquatic life with long lasting effects. Fire water : Specific hazards arising contaminated with this material must be contained and prevented from being from the chemical discharged to any waterway, sewer or drain. Decomposition products may include the following materials: : Hazardous thermal carbon dioxide decomposition products carbon monoxide phosphorus oxides halogenated compounds metal oxide/oxides Promptly isolate the scene by removing all persons from the vicinity of the incident if : Special protective actions there is a fire. No action shall be taken involving any personal risk or without for fire-fighters suitable training. Fire-fighters should wear appropriate protective equipment and self-contained : Special protective breathing apparatus (SCBA) with a full face-piece operated in positive pressure equipment for fire-fighters mode. 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. : For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. If specialised clothing is required to deal with the spillage, take note of any : For emergency responders information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel". Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains : Environmental precautions 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. Methods and material for containment and cleaning up Move containers from spill area. Avoid dust generation. Do not dry sweep. : Small spill Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor. Move containers from spill area. Approach the release from upwind. Prevent entry : Large spill into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. 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. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container. Dry sanding, flame cutting and/or welding of the dry paint film will give rise to dust and/or hazardous fumes. Wet sanding/flatting should be used wherever possible. If exposure cannot be avoided by the provision of local exhaust ventilation, suitable respiratory protective equipment should be used.

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.

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

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

Exposure limits	Ingredient name
ACGIH TLV (United States, 3/2015). STEL: 6 mg/m ³ 15 minutes. Form: Inhalable fraction TWA: 2 mg/m ³ 8 hours. Form: Inhalable fraction	boric acid

If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

Emissions from ventilation or work process equipment should be checked to ensure : Environmental exposure 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 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.

- : Advice on general occupational hygiene
- : Conditions for safe storage, including any incompatibilities

: Appropriate engineering

controls

controls





: Eye/face protection

Section 8. Exposure controls/personal 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,

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.		
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.	:	: Body 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.	:	: Other skin protection
Use a properly fitted, particulate filter 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.	:	: Respiratory protection
the safe working limits of the selected respirator.		
Section 9. Physical and chemical properties		
Section 9. Physical and chemical properties	:	: Physical state
Section 9. Physical and chemical properties Appearance		: Physical state : Colour
Solid.	:	-
Section 9. Physical and chemical properties Appearance Solid. Grey.	:	: Colour
Solid. Grey. Solvent.	::	: Colour : Odour
Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available.	::	: Colour : Odour : Odour threshold
Solid. Grey. Solvent. Not available. Not applicable.	::	 Colour Odour Odour threshold pH
Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available. Not available.	::	 Colour Odour Odour threshold pH Melting point
Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available. Not available. Not available. Not available.	::	 Colour Odour Odour threshold pH Melting point Boiling point
Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available. Not applicable. Not available. Not available. Closed cup: 101°C (213.8°F)		 Colour Odour Odour threshold pH Melting point Boiling point Flash point Evaporation rate
Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available. Not applicable. Not available. Not available. Closed cup: 101°C (213.8°F) Not available.		 Colour Odour Odour threshold pH Melting point Boiling point Flash point
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Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available. Not available. Not available. Closed cup: 101°C (213.8°F) Not available.		 Colour Odour Odour threshold pH Melting point Boiling point Flash point Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits
Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available. Not applicable. Not available. Closed cup: 101°C (213.8°F) Not available.		 Colour Odour Odour threshold pH Melting point Boiling point Flash point Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapour pressure Vapour density
Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available. Not applicable. Not available. Not available. Closed cup: 101°C (213.8°F) Not available.		 Colour Odour Odour threshold pH Melting point Boiling point Flash point Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapour pressure Vapour density Relative density
Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available. Not applicable. Not available. Closed cup: 101°C (213.8°F) Not available.		 Colour Odour Odour threshold pH Melting point Boiling point Flash point Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapour pressure Vapour density
Section 9. Physical and chemical properties Appearance Solid. Grey. Solvent. Not available. Not applicable. Not available. Not available. Closed cup: 101°C (213.8°F) Not available. Insoluble in the following materials: cold water.		 Colour Odour Odour threshold pH Melting point Boiling point Flash point Evaporation rate Flammability (solid, gas) Lower and upper explosive (flammable) limits Vapour pressure Vapour density Relative density Solubility Partition coefficient: n-

Date of issue/Date of revision Version : 1 : 09/08/2018

X.International

Section 9. Physical and chemical properties Not available. : Decomposition temperature Kinematic (room temperature): 6485000 mm²/s (6485000 cSt) : Viscosity 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 : Conditions to avoid No specific data. No specific data. : Incompatible materials Under normal conditions of storage and use, hazardous decomposition products : Hazardous decomposition should not be produced. products Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Not available.

Irritation/Corrosion

Observation	Exposure	Score	Species	Result	Product/ingredient name
-	100 milligrams	-	Rabbit	Eyes - Mild irritant	reaction product: bisphenol- A-(epichlorhydrin); epoxy resin
-	24 hours 500 microliters	-	Rabbit	Skin - Moderate irritant	
-	24 hours 2 milligrams	-	Rabbit	Skin - Severe irritant	
-	72 hours 15 milligrams Intermittent	-	Human	Skin - Mild irritant	boric acid

Sensitisation

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure) Not available.

X.International.

Section 11. Toxicological information

Aspiration hazard

Not available.

Not available.	: Information on likely routes of exposure
Potential acute health effects	
Causes serious eye irritation.	: Eye contact
No known significant effects or critical hazards.	: Inhalation
Causes skin irritation. May cause an allergic skin reaction.	: Skin contact
Irritating to mouth, throat and stomach.	: Ingestion
Symptoms related to the physical, chemical and toxicological characteristics	
Adverse symptoms may include the following:	: Eye contact
pain or irritation	-
watering	
redness	. In helefter
Adverse symptoms may include the following: reduced foetal weight	: Inhalation
increase in foetal deaths	
skeletal malformations	
Adverse symptoms may include the following:	: Skin contact
irritation redness	
reduced foetal weight	
increase in foetal deaths	
skeletal malformations	
Adverse symptoms may include the following:	: Ingestion
reduced foetal weight increase in foetal deaths	
skeletal malformations	
Delayed and immediate effects as well as chronic effects from short and long-t	<u>erm exposure</u>
<u>Short term exposure</u>	
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.	
Once sensitized, a severe allergic reaction may occur when subsequently exposed	: General
to very low levels.	
No known significant effects or critical hazards.	: Carcinogenicity
No known significant effects or critical hazards.	: Mutagenicity
May damage the unborn child.	: Teratogenicity
No known significant effects or critical hazards.	: Developmental effects
May damage fertility.	: Fertility effects

Numerical measures of toxicity



Section 11. Toxicological information

Acute toxicity estimates

Not available.

Section 12. Ecological information

Exposure	Species	Result	Product/ingredient name
48 hours	Crustaceans - Americamysis bahia - Juvenile (Fledgling, Hatchling, Weanling)	Acute LC50 84.28 mg/l Marine water	boric acid
48 hours	Daphnia - Daphnia magna - Neonate	Acute LC50 133000 µg/l Fresh water	
96 hours	Fish - Ptychocheilus lucius - Juvenile (Fledgling, Hatchling, Weanling)	Acute LC50 100000 µg/l Fresh water	
21 days	Daphnia - Daphnia magna	Chronic NOEC 6000 µg/l Fresh water	
87 days	Fish - Oncorhynchus mykiss	Chronic NOEC 2100 µg/l Fresh water	
48 hours	Daphnia - Daphnia magna	Acute EC50 1.08 mg/l Fresh water	trizinc bis(orthophosphate)
72 hours	Algae - Selenastrum capricornutum	Acute IC50 0.136 mg/l	
96 hours	Fish - Oncorhynchus mykiss	Acute LC50 0.09 mg/l Fresh water	
48 hours	Daphnia - Daphnia magna	Chronic NOEC 1.08 mg/l Fresh water	
25 days	Fish - Oncorhynchus mykiss - Adult	Chronic NOEC 0.036 mg/l Fresh water	

Persistence and degradability

Biodegradability	Photolysis	Aquatic half-life	Product/ingredient name
Not readily	-	-	trizinc bis(orthophosphate)

Bioaccumulative potential

Potential	BCF	LogPow	Product/ingredient name
low	31		reaction product: bisphenol- A-(epichlorhydrin); epoxy
low	-	-1.09	resin boric acid

Mobility in soil

Not available.

: Soil/water partition coefficient (Koc)

: Other adverse effects

No known significant effects or critical hazards.

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.

9/11

: Disposal methods





Section 13. Disposal considerations

Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Section 14. Transport information

ΙΑΤΑ	IMDG	UN	
JN3077	UN3077	UN3077	UN number
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, rizinc bis(orthophosphate))	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, trizinc bis(orthophosphate)). Marine pollutant	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, trizinc bis(orthophosphate))	UN proper shipping name
	9	9	Transport hazard class(es)
ll		111	Packing group
Yes.	Yes.	Yes.	Environmental hazards
This product is not regulated as a dangerous good when ransported in sizes of ≤5 L or ≤5 kg, provided the backagings meet the general provisions of 5.0.2.4.1, 5.0.2.6. 1.1 and 5.0.2.8.	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	This product is not regulated as a dangerous good when transported in sizes of ≤ 5 L or ≤ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.	Additional information
lot applicable.		: IMDG C group	ode Segregation

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.

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

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

Not available.



Section 16. Other information

Justification

Justification	Classification
Calculation method	Skin Irrit. 2, H315
Calculation method	Eye Irrit. 2A, H319
Calculation method	Skin Sens. 1, H317
Calculation method	Repr. 1B, H360 (Fertility)
Calculation method	Repr. 1B, H360 (Unborn child)
Calculation method	Aquatic Acute 2, H401
Calculation method	Aquatic Chronic 2, H411
History	
09/08/2018	: Date of printing
09/08/2018	: Date of issue/Date of revision
No previous validation	: Date of previous issue
1	: Version
ATE = Acute Toxicity Estimate	: Key to abbreviations
BCF = Bioconcentration Factor	-
GHS = Globally Harmonized System of Classification and La	abelling of Chemicals
ATA = International Air Transport Association	
BC = Intermediate Bulk Container	
MDG = International Maritime Dangerous Goods	
_ogPow = logarithm of the octanol/water partition coefficient	
MARPOL = International Convention for the Prevention of Po	•
1973 as modified by the Protocol of 1978. ("Marpol" = marin UN = United Nations	e poliution)
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.

MANUFACTURER'S DISCLAIMER: the conditions, methods and factors affecting the handling, storage, application, use and disposal of the product are not under the control and knowledge of the manufacturer. Therefore the manufacturer does not assume responsibility for any adverse events which may occur in the handling, storage, application, use, misuse or disposal of the product and, so far as permitted by applicable law, the manufacturer expressly disclaims liability for any and all loss, damages and/or expenses arising out of or in any way connected to the storage, handling, use or disposal of the product. Safe handling, storage, use and disposal are the responsibility of the users. Users must comply with all applicable health and safety laws.

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