

# **SAFETY DATA SHEET**

### Intershield 163 Inerta 160 Red Part A

### **Section 1. Identification**

Intershield 163 Inerta 160 Red Part A : GHS product identifier

ERA162 : Product code

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

International Paint Ltd.

Stoneygate Lane

Felling Gateshead Tyne and Wear NE10 0JY UK

+966 55 388 0087

Tel: +44 (0)191 469 6111 Fax: +44 (0)191 438 3711

+44 (0)191 469 6111 (24H) : **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 4
SKIN CORROSION/IRRITATION - Category 2
SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A
SKIN SENSITIZATION - Category 1
GERM CELL MUTAGENICITY - Category 2
LONG-TERM AQUATIC HAZARD - Category 2

: Classification of the substance or mixture

#### **GHS label elements**







: Hazard pictograms

: Hazard statements

: Signal word

Warning

Combustible liquid.

Causes serious eye irritation.

Causes skin irritation.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

Toxic to aquatic life with long lasting effects.

**Precautionary statements** 

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### Section 2. Hazards identification

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear protective gloves. Wear eye or face protection. Wear protective clothing. Keep away from flames and hot surfaces. - No smoking. Avoid release to the environment. Avoid breathing vapour. 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. Store in a well-ventilated place. Keep cool. : Storage

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

Wear appropriate respirator when ventilation is inadequate. : Supplemental label

elements

: Prevention

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

### Section 3. Composition/information on ingredients

Mixture : Substance/mixture

Classification	CAS number	% by weight	Ingredient name
Skin Irrit. 2, H315  Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	25068-38-6	≥25 - <50	reaction product: bisphenol-A-(epichlorhydrin); epoxy resin
Acute Tox. 5, H303 Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Muta. 2, H341 Aquatic Chronic 2, H411	2210-79-9	≥25 - <50	2,3-epoxypropyl o-tolyl ether
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	≥1 - <3	xylene

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.

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### Section 4. First-aid measures

#### **Description of necessary first aid measures**

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. Get medical attention.

: Eye contact

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. 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.

: Inhalation

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 eve 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: : Eye contact

pain or irritation watering

redness

No specific data. : Inhalation Adverse symptoms may include the following: : Skin contact

irritation redness

No specific data. : Ingestion

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

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. 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

: Protection of first-aiders

gloves.

See toxicological information (Section 11)

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## Section 5. Fire-fighting measures

#### **Extinguishing media**

Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.

Do not use water jet.

: Suitable extinguishing media

: Unsuitable extinguishing media

Combustible liquid. 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 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.

: Specific hazards arising from the chemical

Decomposition products may include the following materials: carbon dioxide carbon monoxide sulfur oxides halogenated compounds 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. Avoid breathing 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

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### Section 6. Accidental release measures

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. 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 breathing vapour or mist. 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. 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.

: Protective measures

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. 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, 3/2015).	xylene
STEL: 651 mg/m³ 15 minutes.	
STEL: 150 ppm 15 minutes.	
TWA: 434 mg/m³ 8 hours.	
TWA: 100 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

#### Individual protection measures

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controls



## Section 8. Exposure controls/personal protection

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.

: Hygiene measures

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.

: Eye/face 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.

: 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, 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.

: Respiratory protection

### Section 9. Physical and chemical properties

#### **Appearance**

Liquid. : Physical state

Red. : Colour

Solvent : Odour

Not available. **Odour threshold** 

: pH Not applicable.

Not available. : Melting point

Lowest known value: 260°C (500°F) (2,3-epoxypropyl o-tolyl ether). : Boiling point Closed cup: 86°C (186.8°F) : Flash point

Not available. : Evaporation rate

Not available. : Flammability (solid, gas)

Not available. : Lower and upper explosive

(flammable) limits

Not available. : Vapour pressure : Vapour density Not available.

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## Section 9. Physical and chemical properties

1.63 : Relative density

Insoluble in the following materials: cold water. : Solubility

Not available. : Partition coefficient: n-

octanol/water

Not available. : Auto-ignition temperature

Not available. : Decomposition temperature

Kinematic (room temperature): 227.47 mm²/s (227.47 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

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.

: 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	6090 mg/m³	Rat	LC50 Inhalation Dusts and mists	2,3-epoxypropyl o-tolyl ether
-	4 g/kg	Rat	LD50 Oral	
-	4300 mg/kg	Rat	LD50 Oral	xylene

#### **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 20 milligrams	-	Rabbit	Eyes - Moderate irritant	
-	24 hours 5 milligrams	-	Rabbit	Eyes - Severe irritant	
-	24 hours 500 microliters	-	Rabbit	Skin - Moderate irritant	
-	24 hours 2 milligrams	-	Rabbit	Skin - Severe irritant	
-	24 hours 500 microliters	-	Rabbit	Skin - Severe irritant	2,3-epoxypropyl o-tolyl ether

#### **Sensitisation**

Not available.

#### **Mutagenicity**

Not available.

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### **Section 11. Toxicological information**

#### **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

#### Specific target organ toxicity (repeated exposure)

Not available.

#### **Aspiration hazard**

Result	Name
ASPIRATION HAZARD - Category 1	xylene

Not available. : Information on the 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

No specific data. : Inhalation

Adverse symptoms may include the following: : Skin contact

irritation

redness

No specific data. : Ingestion

### Delayed and immediate effects and also 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.

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### **Section 11. Toxicological information**

Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.

No known significant effects or critical hazards.

Suspected of causing genetic defects.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

No known significant effects or critical hazards.

: General

: Carcinogenicity

: Mutagenicity

: Teratogenicity

: Developmental effects

: Fertility effects

### **Numerical measures of toxicity**

#### **Acute toxicity estimates**

ATE value	Route
15167.5 mg/kg	Oral
96831 mg/kg	Dermal
968.3 mg/l	Inhalation (vapours)
132 mg/l	Inhalation (dusts and mists)

# **Section 12. Ecological information**

#### **Toxicity**

Exposure	Species	Result	Product/ingredient name
48 hours	Crustaceans - Palaemonetes pugio	Acute LC50 8500 μg/l Marine water	xylene
96 hours		Acute LC50 13400 μg/l Fresh water	

#### Persistence and degradability

Biodegradability	Photolysis	Aquatic half-life	Product/ingredient name
Not readily	-		reaction product: bisphenol- A-(epichlorhydrin); epoxy resin

#### **Bioaccumulative potential**

Potential	BCF	LogP <sub>ow</sub>	Product/ingredient name
low	-	2.64 to 3.78	reaction product: bisphenol-
			A-(epichlorhydrin); epoxy resin
low	8.1 to 25.9	3.12	xylene

#### **Mobility in soil**

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

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

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## 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	
UN3082	UN3082	UN3082	UN number
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, 2,3-epoxypropyl o-tolyl ether)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, 2, 3-epoxypropyl o-tolyl ether). Marine pollutant (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, 2, 3-epoxypropyl o-tolyl ether)	UN proper shipping name
9	9	9	Transport hazard class(es)
III	III	III	Packing group
Yes.	Yes.	Yes.	Environmental hazards
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 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

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 73/78 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. 4, H227
Calculation method	Skin Irrit. 2, H315
Calculation method	Eye Irrit. 2A, H319
Calculation method	Skin Sens. 1, H317
Calculation method	Muta. 2, H341
Calculation method	Aquatic Chronic 2, H411

**History** 

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: Version

ATE = Acute Toxicity Estimate : Key to abbreviations

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 73/78 = 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.

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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