

## **SAFETY DATA SHEET**

## Intershield 456 Buff Part A

## **Section 1. Identification**

#### Intershield 456 Buff Part A EGA602

г

: GHS product identifier

: 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 Tel: +44 (0)191 469 6111 Fax: +44 (0)191 438 3711	: Supplier's details
+44 (0)191 469 6111 (24H)	: 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	
FLAMMABLE LIQUIDS - Category 3 SKIN CORROSION/IRRITATION - Category 2 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A SKIN SENSITIZATION - Category 1 ACUTE AQUATIC HAZARD - Category 2 LONG-TERM AQUATIC HAZARD - Category 2	: Classification of the substance or mixture
GHS label elements	: Hazard pictograms
Warning Flammable liquid and vapour.	: Signal word : Hazard statements
Causes serious eye irritation. Causes skin irritation. May cause an allergic skin reaction. Toxic to aquatic life with long lasting effects. Precautionary statements	

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## Section 2. Hazards identification

Wear protective gloves. Wear eye or face protection. 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. Avoid breathing vapour. Wash hands thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace.

Collect spillage. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. IF ON SKIN: 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 in a well-ventilated place. Keep cool.

Classification

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

Wear appropriate respirator when ventilation is inadequate.

## : Storage

: Response

- : Disposal
- : Supplemental label elements
- : Other hazards which do not result in classification

## Section 3. Composition/information on ingredients

CAS number

Mixture

None known.

: Substance/mixture

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			
Skin Irrit. 2, H315	25068-38-6	≥10 - ≤25	Reaction product: bisphenol-A-(epichlorhydrin) and epoxy resin, 700 <mol 1000<="" <="" td="" weight=""></mol>
Eye Irrit. 2A, H319 Skin Sens. 1, H317			
Skin Irrit. 2, H315 Eye Irrit. 2A, H319 Skin Sens. 1, H317 Aquatic Acute 1, H400	68609-97-2	≥10 - <25	oxirane, mono[(C12-14-alkyloxy)methyl] derivs.
Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332 Skin Irrit. 3, H316	110-43-0	≥10 - ≤25	heptan-2-one
Skin Irrit. 2, H315	25036-25-3	≥10 - ≤25	Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4, 1-phenyleneoxymethylene)]bis[oxirane]
Eye Irrit. 2A, H319 Skin Sens. 1, H317			

% by weight

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 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 adverse health effects persist or are severe. 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 if adverse health effects persist or are severe. 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: headache drowsiness/fatigue dizziness/vertigo muscle weakness unconsciousness	:	Inhalation
Adverse symptoms may include the following: irritation redness	:	Skin contact
No specific data.	:	Ingestion
Indication of immediate medical attention and special treatment needed, if nece	ss	arv
Treat symptomatically. Contact poison treatment specialist immediately if large		Notes to physician
quantities have been ingested or inhaled.	•	
No specific treatment.	:	Specific treatments

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## Section 4. First aid measures

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 gloves.

: Protection of first-aiders

**X**International

#### See toxicological information (Section 11)

### Section 5. Firefighting measures

#### **Extinguishing media** : Suitable extinguishing Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam. media : Unsuitable extinguishing Do not use water jet. media Flammable liquid and vapour. In a fire or if heated, a pressure increase will occur : Specific hazards arising from the chemical 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. Decomposition products may include the following materials: : Hazardous thermal carbon dioxide decomposition products carbon monoxide sulfur oxides 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. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. 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. 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.

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".

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.

#### Methods and material for containment and cleaning up

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: For emergency responders

: Environmental precautions

#### 4/12

## Section 6. Accidental release measures

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 explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (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 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. Take precautionary measures against electrostatic discharges. 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 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. 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.

: Protective measures

- : Advice on general occupational hygiene
- : 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). TWA: 233 mg/m <sup>3</sup> 8 hours. TWA: 50 ppm 8 hours.	heptan-2-one

5/12







#### Section 8. Exposure controls/personal protection Use only with adequate ventilation. Use process enclosures, local exhaust : Appropriate engineering ventilation or other engineering controls to keep worker exposure to airborne controls 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. 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 controls 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. Safety eyewear complying with an approved standard should be used when a risk : Eye/face protection 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. Skin protection Use chemical resistant gloves classified under Standard EN 374: Protective gloves : Hand protection 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. Personal protective equipment for the body should be selected based on the task : Body protection 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. Appropriate footwear and any additional skin protection measures should be : Other skin protection 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 : Respiratory protection 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.

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reactions

## Section 9. Physical and chemical properties

Appea	rance

Appearance	
Liquid.	: Physical state
Various	: Colour
Solvent.	: Odour
Not available.	: Odour threshold
Not applicable.	: рН
Not available.	: Melting point
Lowest known value: 151.5°C (304.7°F) (heptan-2-one).	: Boiling point
Closed cup: 43°C (109.4°F)	: Flash point
Not available.	: Evaporation rate
Not available.	: Flammability (solid, gas)
Greatest known range: Lower: 1% Upper: 5.5% (heptan-2-one)	: Lower and upper explosive (flammable) limits
Not available.	: Vapour pressure
Not available.	: Vapour density
1.5	: Relative density
Not available.	: Solubility
Not available.	: Partition coefficient: n- octanol/water
Not available.	: Auto-ignition temperature
Not available.	: Decomposition temperature
Kinematic (room temperature): 100 mm <sup>2</sup> /s (100 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

Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, : Conditions to avoid braze, solder, drill, grind or expose containers to heat or sources of ignition.

Reactive or incompatible with the following materials: : Incompatible materials oxidizing 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

Exposure	Dose	Species	Result	Product/ingredient name
-	17100 mg/kg	Rat	LD50 Oral	oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.
-	1600 mg/kg	Rat	LD50 Oral	heptan-2-one

#### Irritation/Corrosion



## Section 11. Toxicological information

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 - Moderate irritant	oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.
-	24 hours 14 milligrams	-	Rabbit	Skin - Mild irritant	heptan-2-one

#### 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.

#### Aspiration hazard

Not available.

Not available.

#### Potential acute health effects

Causes serious eye irritation. No known significant effects or critical hazards. Causes skin irritation. May cause an allergic skin reaction. Irritating to mouth, throat and stomach.

#### Symptoms related to the physical, chemical and toxicological characteristics

Adverse symptoms may include the following: pain or irritation watering redness : Eye contact



: Information on likely routes

of exposure

: Eye contact

: Inhalation : Skin contact

: Ingestion





## Section 11. Toxicological information

Section 11. Toxicological information		
Adverse symptoms may include the following: headache drowsiness/fatigue dizziness/vertigo muscle weakness	:	Inhalation
unconsciousness Adverse symptoms may include the following:		Skin contact
irritation redness	•	
No specific data.	:	Ingestion
Delayed and immediate effects as well as chronic effects from short and long-	tern	<u>n exposure</u>
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.		
Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	:	General
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
23574.8 mg/kg	Oral
162.1 mg/l	Inhalation (vapours)

## Section 12. Ecological information

#### **Toxicity**

Exposure	Species	Result	Product/ingredient name	
72 hours	Algae	IC50 843.75 mg/m <sup>3</sup>	oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.	
96 hours 96 hours	Fish Fish - Pimephales promelas	LC50 5000 mg/l Acute LC50 131000 to 137000 µg/l Fresh water	heptan-2-one	

#### Persistence and degradability

# **X**.International.

## Section 12. Ecological information

Biodegradability	Photolysis	Aquatic half-life	Product/ingredient name
Not readily Readily	-	-	reaction product: bisphenol- A-(epichlorhydrin); epoxy resin oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.

#### **Bioaccumulative potential**

Potential	BCF	LogPow	Product/ingredient name
low	-	2.64 to 3.78	reaction product: bisphenol- A-(epichlorhydrin); epoxy resin
low	160 to 263	3.77	oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.
low	-	2.26	heptan-2-one

#### Mobility in soil

Not available.

## : Soil/water partition coefficient (Koc)

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. 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

ΙΑΤΑ	IMDG	UN	
UN1263	UN1263	UN1263	UN number
PAINT	PAINT. Marine pollutant (reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, oxirane, mono[ (C12-14-alkyloxy)methyl] derivs.)	PAINT	UN proper shipping name
Date of issue/Date of revision	• 02/06/2017		

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: Other adverse effects

: Disposal methods

# **X**.International.

## Section 14. Transport information

3		3	Transport hazard class(es)
		111	Packing group
No.	Yes.	No.	Environmental hazards
The environmentally nazardous 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
lot applicable.		: IMDG group	Code Segregation

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 : **Safety, health and** environmental environmental

regulations specific for the product

## Section 16. Other information

#### Justification

Not available.

Justification	Classification
On basis of test data	Flam. Liq. 3, H226
Calculation method	Skin Irrit. 2, H315
Calculation method	Eye Irrit. 2A, H319
Calculation method	Skin Sens. 1, H317
Calculation method	Aquatic Acute 2, H401
Calculation method	Aquatic Chronic 2, H411

#### <u>History</u>

02/06/2017	:	Date of printing
02/06/2017	:	Date of issue/Date of revision
14/06/2016	:	Date of previous issue
3	:	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 = International Convention for the Prevention of Pollution From Ships,		



# **X.International**

## Section 16. Other information

1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) UN = United Nations

Indicates information that has changed from previously issued version.

Not available.

: References

#### 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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