# **SAFETY DATA SHEET**

**Evochem**® HUNTSMAN Enriching lives through innovation

ARALDITE® METAL G HARDENER

# SECTION 1: Identification of the substance/mixture and of the company/ undertaking

ARALDITE® METAL G HARDENER
Not available.
00087385
Not available.

**1.2 Relevant identified uses of the substance or mixture and uses advised againstProduct use**: Hardener for adhesive systems

1.3 Details of the supplier of Supplier	the :	safety data sheet EVOCHEM S.A. Tzaverdella Place 133 41 PHILI , ATTICA - GREECE Phone.: 0030 210 5590460 , 0030 210 5590155 - Fax: 0030 210 6254737 , 0030 210 5590244
e-mail address of person responsible for this SDS	:	info@evochem.gr; vmergoupis@evochem.gr; sales@evochem.gr www.evochem.gr

1.4 Emergency telephone number : National Poisoning Center 2107793777

# **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

Product definition	: Mixture
Classification according to	o Regulation (EC) No. 1272/2008 [CLP/GHS]
Eye Dam. 1, H318 Skin Sens. 1, H317	
Ingredients of unknown toxicity	:
Ingredients of unknown ecotoxicity	:
Classification according to	Directive 1999/45/EC [DPD]

The product is classified as dangerous according to Directive 1999/45/EC and its amendments.

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SECTION 2: Hazard	s id	lentification		
Classification	:	Xi; R41 R43		
Human health hazards	:	Risk of serious dama	ge to eyes. May cause sens	itisation by skin contact.
Additional information	:	direct toxicological te		aph 1b, classification derived from precedence over classification nethod.
See Section 16 for the full te	ext of	the R phrases or H st	atements declared above.	
See Section 11 for more det	tailed	information on health	effects and symptoms.	
2.2 Label elements				
Hazard pictograms				
	:			
Signal word	:	Danger		
		Danger Causes serious eye o May cause an allergio		
Signal word	:	Causes serious eye		
Signal word Hazard statements	:	Causes serious eye o May cause an allergio	c skin reaction. e. Keep out of reach of child	ren. If medical advice is needed,
Signal word Hazard statements Precautionary statements	:	Causes serious eye o May cause an allergin Read label before us have product contain Wear protective glov	c skin reaction. e. Keep out of reach of child er or label at hand. es: > 8 hours (breakthrough t	ren. If medical advice is needed, ime): butyl rubber, Ethyl Vinyl ection. Avoid breathing vapour.
Signal word Hazard statements <u>Precautionary statements</u> General	:	Causes serious eye of May cause an allergin Read label before us have product contain Wear protective glove Alcohol Laminate (EV	c skin reaction. e. Keep out of reach of child er or label at hand. es: > 8 hours (breakthrough t /AL). Wear eye or face prote autiously with water for sever	ime): butyl rubber, Ethyl Vinyl

- **Disposal** : Dispose of contents and container in accordance with all local, regional, national and international regulations.
- Hazardous ingredients: 2,4,6-tris(dimethylaminomethyl)phenol<br/>Amines, polyethylenepoly-, triethylenetetramine fractionSupplemental label: Not applicable.

elements		
Special packaging requirem	en	<u>ts</u>
Containers to be fitted with child-resistant fastenings	:	Not applicable.
Tactile warning of danger	1	Not applicable.
2.3 Other hazards		

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

# **SECTION 3: Composition/information on ingredients**

3.2 Mixtures

: Mixture

# Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Switzerland

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# **SECTION 3: Composition/information on ingredients**

			<u>Class</u>	ification	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
Benzyl alcohol	CAS: 100-51-6 EC: 202-859-9	7-13	Xn; R20/22	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	[1]
2,4,6-tris (dimethylaminomethyl) phenol	CAS: 90-72-2 EC: 202-013-9 RRN: 01-2119560597-27	3-7	Xn; R22 C; R34 R52/53	Acute Tox. 4, H302 Skin Corr. 1C, H314 Eye Dam. 1, H318	[1]
				Skin Sens. 1B, H317 Aquatic Chronic 3, H412	
Amines, polyethylenepoly-, triethylenetetramine fraction	CAS: 90640-67-8 EC: 292-588-2 RRN: 01-2119487919-13	3-7	Xn; R21/22 C; R34 R43	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314	[1]
			R52/53	Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

# Other means of identification

REACH Product name	CAS no.	Other	CAS no.
Amines, polyethylenepoly-, triethylenetetramine fraction		Amines, polyethylenepoly-, triethylenetetramine fraction	112-24-3

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

Eye contact	: Get medical attention immediately. Call a poison center or physician. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.
Inhalation	: Get medical attention immediately. Call a poison center or physician. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

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# SECTION 4: First aid measures

Skin contact	: Get medical attention immediately. Call a poison center or physician. Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse.
Ingestion	: 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 waistband.
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.

#### 4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects Eye contact : Causes serious eye damage. Inhalation : May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. **Skin contact** : May cause an allergic skin reaction. Ingestion : May cause burns to mouth, throat and stomach. Over-exposure signs/symptoms Eye contact : Adverse symptoms may include the following: pain watering redness aifia dat 1.1.1.1.1.1.1.1 N.L.-

Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: pain or irritation redness blistering may occur
Ingestion	: Adverse symptoms may include the following: stomach pains
· · · · · · · · · · · · · · · · · · ·	nmediate medical attention and special treatment needed

# Notes to physician In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. Specific treatments Symptomatic treatment and supportive therapy as indicated. Following severe exposure the patient should be kept under medical review for at least 48 hours.

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<b>SECTION 5: Firefigh</b>	tin	ig measures		
5.1 Extinguishing media				
Suitable extinguishing media	:	Use an extinguishing	agent suitable for the surrou	Inding fire.
Unsuitable extinguishing media	:	: None known.		
5.2 Special hazards arising f	ron	n the substance or m	ixture	
Hazards from the substance or mixture	:	In a fire or if heated, a	a pressure increase will occu	ir and the container may burst.
Hazardous thermal decomposition products	:	Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides		
5.3 Advice for firefighters				
Special precautions for fire-fighters	:		cene by removing all persor ion shall be taken involving a	ns from the vicinity of the incident if any personal risk or without
Special protective equipment for fire-fighters	:	breathing apparatus ( mode. Clothing for fi	SCBA) with a full face-piece re-fighters (including helmets	quipment and self-contained operated in positive pressure s, protective boots and gloves) vide a basic level of protection for

6.1 Personal precautions, pro	te	ctive equipment and emergency procedures
For non-emergency personnel	:	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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	:	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".
6.2 Environmental precautions	:	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).
6.3 Methods and material for	со	ntainment and cleaning up
Small spill	:	Stop leak if without risk. Move containers from spill area. 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.
Large spill	:	Stop leak if without risk. Move containers from spill area. 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

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<b>SECTION 6: Accid</b>	ental release meas	ures	
6.4 Reference to other sections		ergency contact information prmation on appropriate pers	

See Section 13 for additional waste treatment information.

# **SECTION 7: Handling and storage**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 7.1 Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 2 to 40°C (35.6 to 104°F). 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.
Storage hazard class Huntsman Advanced Materials	: Storage class 12, Liquids, not dangerous
7.3 Specific end use(s)	
Recommendations	: Not available.
Industrial sector specific solutions	: Not available.

# **SECTION 8: Exposure controls/personal protection**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### 8.1 Control parameters

#### **Occupational exposure limits**

No exposure limit value known.

Workplace exposure limits (for total dust and inhalable quartz dust) must be complied with. If this is not possible, then suitable dust masks must be worn.

W A R N I N G ! This product contains quartz, which has been classified by IARC as carcinogenic for humans (Group 1), and which can cause silicosis and lung cancer following exposure to respirable dust. It is therefore important to take particular care to avoid inhalation exposure when mechanically processing cured material (e.g. grinding, sanding, sawing).

QUARTZ (CAS RN 14808-60-7):

United Kingdom: TWA: 0.1 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust

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# **SECTION 8: Exposure controls/personal protection**

Ireland: OELV-8hr: 0.1 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust Switzerland: TWA: 0.15 mg/m<sup>3</sup> 8 hour(s). Form: respirable dust Australia: TWA: 0.1 mg/m<sup>3</sup> 8 hour(s)

Recommended monitoring procedures : If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

#### **Derived effect levels**

Product/ingredient name	Туре	Exposure	Value	Population	Effects
Benzyl alcohol	DNEL	Short term Dermal	47 mg/kg bw/day	Workers	Systemic
	DNEL	Short term Inhalation	450 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	9.5 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	90 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Short term Dermal	28.5 mg/ kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	40.55 mg/ m <sup>3</sup>	Consumers	Systemic
	DNEL	Short term Oral	25 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Dermal	5.7 mg/kg bw/day	Consumers	Systemic
	DNEL	Long term Inhalation	8.11 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	5 mg/kg bw/day	Consumers	Systemic
2,4,6-tris(dimethylaminomethyl) phenol	DNEL	Long term Inhalation	0.31 mg/m <sup>3</sup>	Workers	Systemic
Amines, polyethylenepoly-, triethylenetetramine fraction	DNEL	Short term Inhalation	5380 mg/ m³	Workers	Systemic
,	DNEL	Long term Dermal	0.57 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	1 mg/m <sup>3</sup>	Workers	Systemic
	DNEL	Long term Dermal	0.028 mg/ m³	Workers	Local
	DNEL	Short term Dermal	8 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Inhalation	1600 mg/ m³	Consumers	Systemic
	DNEL	Short term Oral	20 mg/kg bw/day	Consumers	Systemic
	DNEL	Short term Dermal	1 mg/cm <sup>2</sup>	Consumers	Local
	DNEL	Short term Dermal	0.25 mg/ kg bw/day	Consumers	Local
	DNEL	Long term Inhalation	0.29 mg/m <sup>3</sup>	Consumers	Systemic
	DNEL	Long term Oral	0.41 mg/	Consumers	Systemic

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ECTION 8: Exposure	e con	trols/p	ersonal prote	ctio	n			
		DNEL	Long term Dermal		ow/day 8 mg/	Consumer	S	Local
redicted effect concentration	ons		I			I		
Product/ingredient na	me	Туре	Compartment De	tail	N	/alue	N	lethod Detail
Benzyl alcohol		PNEC PNEC PNEC PNEC	Marine PNECintermittent Sewage Treatment Plant Fresh water sedime Marine water sedime Soil	ent ent	1 mg/l 0.1 mg/ 2.3 mg/ 39 mg/ 5.27 m 0.527 n 0.456 n	/l l g/kg ng/kg	Asses Asses Asses Asses	esment Factors sement Factors sement Factors sement Factors sement Factors sement Factors sement Factors
2,4,6-tris(dimethylaminometh phenol	ıyl)	PNEC PNEC PNEC	Fresh water	ıg	- 0.084 n 0.0084	•	Asses	ssment Factors ssment Factors ssment Factors
Aminon nebothderersky		PNEC PNEC	PNECintermittent Sewage Treatment Plant		0.84 m 0.2 mg	0.84 mg/l Asses 0.2 mg/l Asses		ssment Factors ssment Factors
Amines, polyethylenepoly-, triethylenetetramine fraction		PNEC PNEC PNEC PNEC PNEC PNEC PNEC	C Fresh water sediment C Marine C PNECintermittent C Marine water sediment C Marine water sediment C Soil C Sewage Treatment 95.9 mg/kg 19.2 mg/kg 19.1 mg/kg 4.25 mg/l		Assessment Factors Equilibrium Partitioning Assessment Factors Assessment Factors Equilibrium Partitioning Equilibrium Partitioning Assessment Factors			
		PNEC	Plant Secondary Poisonir	ng	0.18 m	g/kg	Asses	sment Factors
Exposure controls ppropriate engineering ontrols <u>ndividual protection measur</u> Hygiene measures Eye/face protection	encl expo : Was befo App Con cont show : Safe asse gase unle	osures, lo osure to a sh hands, re eating ropriate to taminated aminated vers are essment i es or dus ss the as	tions generate dust, for a exhaust ventilation airborne contaminant for earms and face the smoking and using echniques should be d work clothing before reus close to the workstate ar complying with ar ndicates this is nece the series of face shield. If inhabition of the shield of the shield of the shield of the shield of the shield.	on or s belo horou the la used Id not sing. ion lo appr ssary ible, t a high	other en ow any r aghly after avatory a to remo be allow Ensure cation. roved sta to avoid he follow her degro	ecommend er handling and at the e ove potentia ved out of the that eyewas andard show d exposure ving protect ee of protect	controls ded or s chemic nd of th ally cont he work sh station to liquic tion sho ction: c	tatutory limits. cal products, ne working perio taminated clothi cplace. Wash ons and safety used when a risk d splashes, mist ould be worn, hemical splash
Skin protection	requ	ired inste	ead.					
Hand protection	be w		istant, impervious gl times when handling arv.					
Material of gloves for long term application (BTT>480min):			Ethyl Vinyl Alcohol L	amina	ate (EVA	NL)		

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Material of gloves for short term/splash application (10min <btt<480min):< td=""><td>:</td><td>nitrile rubber, neopre</td><td>ene</td><td></td></btt<480min):<>	:	nitrile rubber, neopre	ene	
(BTT = Break Through Time)				
		Suitability and durab	ility of a glove is dependent of chemical resistance of glove	EN 374 (Europe), F739 (US). on usage, e.g. frequency and material and dexterity. Always rmation can be found for instance
Body protection	:		d the risks involved and shou	Id be selected based on the task Id be approved by a specialist
Other skin protection	:	selected based on th	r and any additional skin pro ne task being performed and alist before handling this pro	the risks involved and should be
Respiratory protection	:	must be based on k		y protection. Respirator selection e levels, the hazards of the product ator.
Environmental exposure controls	:	ensure they comply In some cases, fume	with the requirements of env	oment should be checked to vironmental protection legislation. ering modifications to the process s to acceptable levels.

# **SECTION 9: Physical and chemical properties**

9.1 Information on basic physical	and chemical properties
<u>Appearance</u>	
Physical state	: Liquid. [Paste.]
Colour	: Beige.
Odour	: Amine-like.
Odour threshold	: Not available.
рН	: Not available.
Melting point/freezing point	: Not available.
Initial boiling point and boiling range	: >200°C
Flash point	: Closed cup: >200°C
Evaporation rate	: Not available.
Flammability (solid, gas)	: Not available.
Burning time	: Not applicable.
Burning rate	: Not applicable.
Upper/lower flammability or explosive limits	: Not available.
Vapour pressure	: Not available.
Vapour density	: Not available.
Relative density	: Not available.
Solubility(ies)	
Water solubility	: practically insoluble
Partition coefficient: n-octanol/ water (LogKow)	20 deg C : Not available.

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<b>SECTION 9: Physical</b>	and chemical p	operties	
Auto-ignition temperature	: Not available.		
Decomposition temperature	: >200°C		
Viscosity	: Dynamic (25°C): Kinematic: Not av Kinematic (40°C)	vailable.	
Explosive properties	: Not available.		
Oxidising properties	: Not available.		
9.2 Other information			
Density	: 1.55 g/cm <sup>3</sup> [25°C	(77°F)]	
SECTION 10: Stability	/ and reactivity		
10.1 Reactivity	: No specific test data	related to reactivity available	for this product or its ingredients.
10.2 Chemical stability	: The product is stable		
10.3 Possibility of hazardous reactions	: Under normal conditi	ons of storage and use, haza	ardous reactions will not occur.
10.4 Conditions to avoid	: No specific data.		
10.5 Incompatible materials	: strong acids, strong b	bases, strong oxidising agent	ts
10.6 Hazardous decomposition products	: Under normal conditi should not be produc		ardous decomposition products
	Decomposition produproduces obnoxious		g materials:Carbon oxides, Burning

# 11.1 Information on toxicological effects

# Acute toxicity

Product/ingredient name	Endpoint	Species	Result	Exposure
Benzyl alcohol	LC50 Inhalation Dusts and mists	Rat - Male, Female	>4178 mg/m <sup>3</sup>	4 hours
	LD50 Oral	Rat - Male	1620 mg/kg	-
2,4,6-tris (dimethylaminomethyl) phenol	LD50 Dermal	Rat - Male	>971 mg/kg	-
	LD50 Oral	Rat - Male, Female	2169 mg/kg	-
Amines, polyethylenepoly-, triethylenetetramine fraction	LD50 Dermal	Rabbit - Male, Female	1465.4 mg/kg	-
-	LD50 Oral	Rat - Male, Female	1716.2 mg/kg	-
Conclusion/Summary	: No additional information.			1

# Acute toxicity estimates

Not available.

# Irritation/Corrosion

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Product/ingredient name	Test	Species	Route of exposure	Result
ARALDITE METAL G HARDENER	-	Rabbit	Skin	Non-irritant.
	-	Rabbit	Eyes	Severe irritant
Benzyl alcohol	OECD 404 Acute Dermal Irritation/ Corrosion	Rabbit	Skin	Non-irritant.
	OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Eyes	Irritant
2,4,6-tris (dimethylaminomethyl) phenol	OECD 404 Acute Dermal Irritation/ Corrosion	Rabbit	Skin	Corrosive
	EPA CFR	Rabbit	Eyes	Corrosive
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 405 Acute Eye Irritation/ Corrosion	Rabbit	Skin	Corrosive
	OECD 404 Acute Dermal Irritation/ Corrosion	Rabbit	Eyes	Corrosive

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Skin	:	ARALDITE® METAL G HARDENER	Non-irritating to the skin.
		Benzyl alcohol 2,4,6-tris (dimethylaminomethyl) phenol	Non-irritating to the skin. Corrosive to the skin.
		Amines, polyethylenepoly-, triethylenetetramine fraction	Corrosive to the skin.
Eyes	:	ARALDITE® METAL G HARDENER	Severely irritating to eyes.
		Benzyl alcohol 2,4,6-tris (dimethylaminomethyl) phenol	Irritating to eyes. Corrosive to eyes.
		Amines, polyethylenepoly-, triethylenetetramine fraction	Corrosive to eyes.
Respiratory	÷	No additional information.	

# E

# Respiratory

No additional information.

#### **Sensitiser Product/ingredient name** Test **Route of Species** Result exposure ARALDITE METAL G Sensitising \_ skin Guinea pig HARDENER Benzyl alcohol skin Guinea pig Not sensitizing OECD 406 Skin 2,4,6-tris skin Guinea pig Not sensitizing (dimethylaminomethyl) Sensitization phenol Amines, polyethylenepoly-, OECD 406 Skin skin Guinea pig Sensitising triethylenetetramine fraction Sensitization **Conclusion/Summary**

Skin

- : No additional information.

: No additional information.

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Product/ingredient name	Test		Result
Benzyl alcohol	OECD 474 Mammalian Eryth	rocyte	Negative
2,4,6-tris (dimethylaminomethyl) phenol	Micronucleus Test OECD 471 Bacterial Reverse Mutation Test	9	Negative
	OECD 476 In vitro Mammalian Cell Gene Mutation Test		Negative
	OECD 473 In vitro Mammalia Chromosomal Aberration Tes		Negative
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 471 Bacterial Reverse		Positive
	Mutation Test OECD 482 Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells in vitro		Negative
	OECD 474 Mammalian Eryth Micronucleus Test	rocyte	Negative
Conclusion/Summary	(dimethylaminomethyl) t phenol Amines, 7	Not mutagenic in a standard battery of genetic toxicological tests. The weight of the scientific evidence indicates that material is non-genotoxic.	

# **Carcinogenicity**

Product/ingredient name	Test	Species	Exposure	Result	Route of exposure	Target organs
Benzyl alcohol	OECD 453 Combined Chronic Toxicity/ Carcinogenicity Studies	Rat	103 weeks; 5 days per week	Negative	Oral	-
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 451 Carcinogenicity Studies	Mouse	3 days per week	Negative	Dermal	-

**Conclusion/Summary** 

: No additional information.

triethylenetetramine

fraction

**Reproductive toxicity** 

Product/ingredient name	Test		Species	Result/Result type	Target organs
2,4,6-tris (dimethylaminomethyl) phenol	OECD 422 Combined Rep Dose Toxicity Study with th Reproduction/Developmen Toxicity Screening Test	е	Rat	Oral: NOEL	-
Conclusion/Summary	: Amines, polyethylenepoly-,	In accordance with column 2 of Annex VII - X of Regulation (EC) No 1907/2006, the test for this proper			

# Regulation (EC) No 1907/2006, the test for this property of the substance does not need to be conducted.

# **Teratogenicity**

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Product/ingredient name	Test		Species	Result/Result type	
Benzyl alcohol	-		Mouse -	550 mg/kg NOAEL	
Amines, polyethylenepoly-,	OECD 414 Prenatal De	velonmental	Female Rat	0 to 750 mg/kg NOAEL	
triethylenetetramine fraction	Toxicity Study				
	OECD 414 Prenatal De Toxicity Study	velopmental	Rabbit	0 to 125 mg/kg NOAEL	
Conclusion/Summary	: No additional informa	ation.			
Specific target organ toxicit	ty (single exposure)				
Not available.	<u>, , , , , , , , , , , , , , , , , , , </u>				
Specific target organ toxicit	ty (repeated exposure)				
Not available.					
Aspiration hazard					
Not available.					
Information on the likely routes of exposure	: Not available.				
Potential acute health effec	ts				
Inhalation	. May give off gas, vap		t is verv irritatin	a or corrosive to the respirator	~
			on products ma	y cause a health hazard. Serie	
Ingestion	effects may be delay	ed following e	on products ma xposure.		
Ingestion Skin contact	effects may be delay : May cause burns to r	ed following e mouth, throat	on products ma xposure. and stomach.		
Skin contact	effects may be delay : May cause burns to r : May cause an allergi	ed following e mouth, throat c skin reactior	on products ma xposure. and stomach.		
Skin contact Eye contact	effects may be delay : May cause burns to r : May cause an allergi : Causes serious eye o	ed following e nouth, throat c skin reactior damage.	on products ma xposure. and stomach. n.	y cause a health hazard. Seric	
Skin contact Eye contact Symptoms related to the ph	effects may be delay : May cause burns to r : May cause an allergin : Causes serious eye on the serious eye of the serious	ed following e nouth, throat c skin reactior damage.	on products ma xposure. and stomach. n.	y cause a health hazard. Seric	
Skin contact Eye contact	effects may be delay : May cause burns to r : May cause an allergin : Causes serious eye on trysical, chemical and to : No specific data. : Adverse symptoms n	ed following e mouth, throat c skin reactior damage. <u>xicological c</u>	on products ma xposure. and stomach. n. <u>haracteristics</u>	y cause a health hazard. Seric	
Skin contact Eye contact <u>Symptoms related to the ph</u> Inhalation	<ul> <li>effects may be delay</li> <li>May cause burns to r</li> <li>May cause an allergine</li> <li>Causes serious eye on the serious eye of the</li></ul>	ed following e mouth, throat c skin reactior damage. <u>xicological c</u> nay include th	on products ma xposure. and stomach. n. <u>haracteristics</u> e following:	y cause a health hazard. Seric	
Skin contact Eye contact <u>Symptoms related to the ph</u> Inhalation Ingestion	<ul> <li>effects may be delay</li> <li>May cause burns to r</li> <li>May cause an allergin</li> <li>Causes serious eye on the serious eye of the series eye of the se</li></ul>	ed following e mouth, throat c skin reactior damage. <u>xicological c</u> nay include th	on products ma xposure. and stomach. n. <u>haracteristics</u> e following:	y cause a health hazard. Seric	
Skin contact Eye contact <u>Symptoms related to the ph</u> Inhalation Ingestion	<ul> <li>effects may be delay</li> <li>May cause burns to r</li> <li>May cause an allergia</li> <li>Causes serious eye on the serious eye of the series eye of the se</li></ul>	ed following e mouth, throat c skin reactior damage. <u>xicological c</u> nay include th	on products ma xposure. and stomach. n. <u>haracteristics</u> e following:	y cause a health hazard. Seric	
Skin contact Eye contact <u>Symptoms related to the ph</u> Inhalation Ingestion Skin contact	<ul> <li>effects may be delay</li> <li>May cause burns to r</li> <li>May cause an allergid</li> <li>Causes serious eye of</li> <li>transformed and to</li> <li>No specific data.</li> <li>Adverse symptoms n stomach pains</li> <li>Adverse symptoms n pain or irritation redness blistering may occur</li> </ul>	ed following e mouth, throat a c skin reactior damage. <u>xicological c</u> nay include th nay include th	on products ma xposure. and stomach. n. <u>haracteristics</u> e following: e following:	y cause a health hazard. Seric	
Skin contact Eye contact <u>Symptoms related to the ph</u> Inhalation Ingestion	<ul> <li>effects may be delay</li> <li>May cause burns to r</li> <li>May cause an allergia</li> <li>Causes serious eye on the serious eye of the series eye of the se</li></ul>	ed following e mouth, throat a c skin reactior damage. <u>xicological c</u> nay include th nay include th	on products ma xposure. and stomach. n. <u>haracteristics</u> e following: e following:	y cause a health hazard. Seric	
Skin contact Eye contact <u>Symptoms related to the ph</u> Inhalation Ingestion Skin contact	<ul> <li>effects may be delay</li> <li>May cause burns to r</li> <li>May cause an allergin</li> <li>Causes serious eye on the serious eye of the s</li></ul>	ed following e mouth, throat a c skin reactior damage. <u>xicological c</u> nay include th nay include th	on products ma xposure. and stomach. n. <u>haracteristics</u> e following: e following:	y cause a health hazard. Seric	
Skin contact Eye contact <u>Symptoms related to the ph</u> Inhalation Ingestion Skin contact Eye contact	<ul> <li>effects may be delay</li> <li>May cause burns to r</li> <li>May cause an allergia</li> <li>Causes serious eye on the serious eye of the series eye of the se</li></ul>	ed following e mouth, throat a c skin reaction damage. <u>xicological c</u> nay include th nay include th	on products ma xposure. and stomach. n. haracteristics e following: e following: e following:	y cause a health hazard. Seric	
Skin contact Eye contact <u>Symptoms related to the ph</u> Inhalation Ingestion Skin contact Eye contact <u>Delayed and immediate effe</u>	<ul> <li>effects may be delay</li> <li>May cause burns to r</li> <li>May cause an allergia</li> <li>Causes serious eye on the serious eye of the series eye of the se</li></ul>	ed following e mouth, throat a c skin reaction damage. <u>xicological c</u> nay include th nay include th	on products ma xposure. and stomach. n. haracteristics e following: e following: e following:	y cause a health hazard. Seric	
Skin contact Eye contact <u>Symptoms related to the ph</u> Inhalation Ingestion Skin contact Eye contact <u>Delayed and immediate effe</u> <u>Short term exposure</u> Potential immediate	<ul> <li>effects may be delay</li> <li>May cause burns to r</li> <li>May cause an allergia</li> <li>Causes serious eye on the serious eye of the series eye of the se</li></ul>	ed following e mouth, throat a c skin reaction damage. <u>xicological c</u> nay include th nay include th	on products ma xposure. and stomach. n. haracteristics e following: e following: e following:	y cause a health hazard. Seric	
Skin contact Eye contact Symptoms related to the ph Inhalation Ingestion Skin contact Eye contact Delayed and immediate effe Short term exposure Potential immediate effects	<ul> <li>effects may be delay.</li> <li>May cause burns to r</li> <li>May cause an allergional constraints of the second second</li></ul>	ed following e mouth, throat a c skin reaction damage. <u>xicological c</u> nay include th nay include th	on products ma xposure. and stomach. n. haracteristics e following: e following: e following:	y cause a health hazard. Seric	
Skin contact Eye contact Symptoms related to the ph Inhalation Ingestion Skin contact Eye contact Delayed and immediate effe Short term exposure Potential immediate effects Potential delayed effects	<ul> <li>effects may be delay.</li> <li>May cause burns to r</li> <li>May cause an allergional constraints of the second second</li></ul>	ed following e mouth, throat a c skin reaction damage. <u>xicological c</u> nay include th nay include th	on products ma xposure. and stomach. n. haracteristics e following: e following: e following:	y cause a health hazard. Seric	
Skin contact Eye contact Symptoms related to the ph Inhalation Ingestion Skin contact Eye contact Delayed and immediate effe Short term exposure Potential immediate effects	<ul> <li>effects may be delay.</li> <li>May cause burns to r</li> <li>May cause an allergional constraints of the second second</li></ul>	ed following e mouth, throat a c skin reaction damage. <u>xicological c</u> nay include th nay include th	on products ma xposure. and stomach. n. haracteristics e following: e following: e following:	y cause a health hazard. Seric	

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Product/ingredient name	Test	Result type	)	Result	Target organs	
Benzyl alcohol	-	NOAEL	-	400 mg/kg	central nervous system (CNS)	
	OECD 412 Repeated Dose Inhalation Toxicity: 28-day or 14-day Study	NOEC	Dusts and mists	1072 mg/ m³	-	
2,4,6-tris (dimethylaminomethyl) phenol	OECD 422 Combined Repeated Dose Toxicity Study with the Reproduction/ Developmental Toxicity Screening Test	NOEL	-	15 mg/kg	brain, liver, spleen	
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 408 Repeated Dose 90-Day Oral Toxicity Study in Rodents	NOAEL	-	50 mg/kg/d	lungs	
Conclusion/Summary	: No additional information.					
General	: Once sensitized, a severe a to very low levels.	llergic reaction	on may occu	r when subse	equently exposed	
Carcinogenicity	: No known significant effects	or critical ha	zards.			
IARC	: quartz (SiO2)				1	
Mutagenicity	: No known significant effects or critical hazards.					
Teratogenicity	: No known significant effects	or critical ha	zards.			
Developmental effects	: No known significant effects	or critical ha	izards.			
Fertility effects	: No known significant effects	or critical ha	zards.			
Other information	: Not available.					

# **SECTION 12: Ecological information**

# 12.1 Toxicity

Product/ingredient name	Test	Endpo	int	Exposure	Species	Result	
Benzyl alcohol	OECD 202 <i>Daphnia</i> sp. Acute Immobilisation Test	Acute	EC50	48 hours	Daphnia	230	mg/l
	OECD 201 Alga, Growth Inhibition Test	Acute	EgC50	72 hours Static	Algae	770	mg/l
	EPA OPPTS	Acute	LC50	96 hours Static	Fish	460	mg/l
	OECD 201 Alga, Growth Inhibition Test	Chronic		hours Static	Algae	310	mg/l
	OECD 211 Daphnia Magna Reproduction Test	Chronic	NOEC	21 days Semi- static	Daphnia	51	mg/l
2,4,6-tris (dimethylaminomethyl) phenol	OECD 201 Alga, Growth Inhibition Test	Acute	ErC50 (growth rate)	72 hours Static	Algae	84	mg/l
	Unknown guidelines	Acute	LC50	96 hours Static	Daphnia	718	mg/l
	-	Acute	LC50	96 hours Static	Fish	175	mg/l
	-	Chronic	NOEC		Algae	6.25	mg/l
Amines, polyethylenepoly-, triethylenetetramine fraction	No official guidelines	Acute	EC50	30 minutes Static	Bacteria	800	mg/l
	EU EC C.2 Acute Toxicity for	Acute	EC50		Daphnia	31.1	mg/l
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	Daphnia			hours Static			
	OECD 201 Alga, Growth Inhibition Test	Acute	ErC50 (growth rate)	72 hours Semi- static	Algae	20	mg/l
	EPA OPPTS EPA OTS 797. 1400	Acute	LC50	96 hours Static	Fish	330	mg/l
	No official guidelines	Chronic	EC10	30 minutes Static	Bacteria	42.5	mg/l
	OECD OECD 202: Part II (Daphnia sp., Reproduction Test	Chronic	EC10	21 days Semi- static	Daphnia	1.9	mg/l
	OECD 201 Alga, Growth Inhibition Test	Chronic	NOECr	72 hours Semi- static	Algae	<2.5	mg/l

# 12.2 Persistence and degradability

Product/ingredient name	Test	Test		
Benzyl alcohol	OECD 301A Ready Bio Away Test	21 days	95 to 97 %	
2,4,6-tris (dimethylaminomethyl) phenol	OECD 301D Ready Bio Bottle Test	28 days	4 %	
Amines, polyethylenepoly-, triethylenetetramine fraction	OECD 302A Inherent Biodegradability: Modified SCAS Test		84 days	20 %
	OECD 301D Ready Bio Bottle Test	OECD 301D Ready Biodegradability - Closed Bottle Test		0 %
Conclusion/Summary	: Amines, polyethylenepoly-, triethylenetetramine fraction	Not biodegradable		
Product/ingredient name	Aquatic half-life	Photolysis		Biodegradability
Benzyl alcohol	-	-		Readily Not readily

Denzyraiconol			rteauny
2,4,6-tris	-	-	Not readily
(dimethylaminomethyl)			-
phenol			
Amines, polyethylenepoly-,	-	-	Not readily
triethylenetetramine fraction			
	1		

# 12.3 Bioaccumulative potential

LogPow	BCF	Potential
1.1	1	low
0.219	-	low
-2.65	-	low
	1.1 0.219	1.1 1 0.219 -

# 12.4 Mobility in soil

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

#### 12.5 Results of PBT and vPvB assessment

Not applicable.

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

# 12.7 Other ecological information

# **SECTION 13: Disposal considerations**

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

#### **13.1 Waste treatment methods**

Product	
Methods of disposal	: 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.
Hazardous waste	: Yes.

# European waste catalogue (EWC)

Waste code	Waste designation           other organic solvents, washing liquids and mother liquors		
07 02 04*			
Packaging			
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.		
Special precautions	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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.		

# **SECTION 14: Transport information**

	14.1 UN number	14.2 UN proper shipping name
ADR/RID	Not regulated.	-
IMDG	Not regulated.	-
ΙΑΤΑ	Not regulated.	-

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# **SECTION 14: Transport information**

	14.3 Transport hazard class(es)	14.4 Packing group	14.5 Environmental hazards	14.6 Special precautions for user	Additional information
ADR/RID	-	-	No.	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.	-
IMDG	-	_	No.	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.	-
ΙΑΤΑ	-	-	No.	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.	-

14.7 Transport in bulk: Not applicable.according to Annex II ofMARPOL 73/78 and the IBCCode

#### Evochem Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - Switzerland ARALDITE METAL G HARDENER 18/20 : 00087385 **Date of printing** : 17 March 2015 (M)SDS no. **Date of issue** : 17 March 2015 Version : 1 SECTION 15: Regulatory information 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) This product is compliant with the REACH Regulation EC 1907/2006. Huntsman has pre-registered and is registering all of the substances that it manufactures in or imports into the European Economic Area (EEA) that are subject to Title II of the REACH Regulation. Annex XIV - List of substances subject to authorisation Annex XIV None of the components are listed. Substances of very high concern None of the components are listed. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles **Other EU regulations** : All components are listed or exempted. **Europe inventory** Black List Chemicals : Not listed **Priority List Chemicals** : Not listed Integrated pollution : Not listed prevention and control list (IPPC) - Air : Not listed Integrated pollution prevention and control list (IPPC) - Water National regulations Australia inventory (AICS) : All components are listed or exempted. **Canada inventory** : Not determined. China inventory (IECSC) : All components are listed or exempted. Japan inventory : Not determined. Korea inventory (KECI) : All components are listed or exempted. **New Zealand Inventory of** : All components are listed or exempted. Chemicals (NZIoC) **Philippines inventory** ŝ (PICCS) **United States inventory** : All components are listed or exempted.

**15.2 Chemical Safety**<br/>Assessment: This product contains substances for which Chemical Safety Assessments are still<br/>required.

: Not listed

: Not listed

: Not listed

(TSCA 8b)

Chemicals

**Chemicals** 

Chemicals

Chemical Weapons Convention List Schedule I

**Chemical Weapons** 

**Chemical Weapons** 

**Convention List Schedule II** 

**Convention List Schedule III** 

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Indicates information that	at has changed from previou	isly issued version.	
Abbreviations and acronyms	1272/2008] DNEL = Derived No EUH statement = CL	Labelling and Packaging Re Effect Level P-specific Hazard statement o Effect Concentration	gulation [Regulation (EC) No.
Procedure used to derive	the classification according	ng to Regulation (EC) No. 1	272/2008 [CLP/GHS]
Clas	sification	J	lustification
Eye Dam. 1, H318 Skin Sens. 1, H317		Expert judgment Expert judgment	
Full text of abbreviated H statements	H314 Causes sev H317 May cause H318 Causes ser H319 Causes ser H332 Harmful if ir	contact with skin. 'ere skin burns and eye dama an allergic skin reaction. ious eye damage. ious eye irritation.	
Full text of classifications [CLP/GHS]		ACUTE TOXICITY (ora ACUTE TOXICITY (der ACUTE TOXICITY (inh 412 LONG-TERM AQUATIO SERIOUS EYE DAMAO SERIOUS EYE DAMAO SKIN CORROSION/IRF SKIN CORROSION/IRF SKIN SENSITIZATION	I) - Category 4 mal) - Category 4 alation) - Category 4 C HAZARD - Category 3 GE/ EYE IRRITATION - Category 1 GE/ EYE IRRITATION - Category 2 RITATION - Category 1B RITATION - Category 1C - Category 1

	Skin Sens. 1B, H317 SKIN SENSITIZATION - Category 1B	
Full text of abbreviated R phrases	R22- Harmful if swallowed. R20/22- Harmful by inhalation and if swallowed. R21/22- Harmful in contact with skin and if swallowed. R34- Causes burns. R41- Risk of serious damage to eyes. R43- May cause sensitisation by skin contact. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in th aquatic environment.	ne
Full text of classifications [DSD/DPD]	C - Corrosive Xn - Harmful Xi - Irritant	
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Date of previous issue	No previous validation.	

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# **SECTION 16: Other information**

THE PRODUCT MAY PRESENT HAZARDS AND SHOULD BE USED WITH CAUTION. WHILE CERTAIN HAZARDS ARE DESCRIBED IN THIS PUBLICATION, NO GUARANTEE IS MADE THAT THESE ARE THE ONLY HAZARDS THAT EXIST.

Hazards, toxicity and behaviour of the products may differ when used with other materials and are dependent upon the manufacturing circumstances or other processes. Such hazards, toxicity and behaviour should be determined by the user and made known to handlers, processors and end users.

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