

SAFETY DATA SHEET

ARALDITE KIT 680 B CI

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Identification of the substance or mixture

Product name : ARALDITE KIT 680 B CI
Product type : Liquid.
Product description : Preparation
Use of the substance/mixture : Hardener for adhesive systems

Supplier : Huntsman Advanced Materials (Europe)BVBA
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2. HAZARDS IDENTIFICATION

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

Classification : C; R34
 R43
 N; R51/53

Human health hazards : Causes burns. May cause sensitisation by skin contact.

Environmental hazards : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

See Section 11 for more detailed information on health effects and symptoms.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/preparation : Preparation

Ingredient name	CAS number	%	Number	Classification
isophorone diamine	2855-13-2	7 - 13		Xn; R21/22 [1] C; R34 R43 R52/53
2-piperazin-1-ylethylamine	140-31-8	7 - 13		Xn; R21/22 [1] C; R34 R43 R52/53
benzyl alcohol	100-51-6	3 - 7		Xn; R20/22 [1]
4-nonyl-phenol	25154-52-3	3 - 7		Repr. Cat. 3; [1] R62, R63 Xn; R22 C; R34 N; R50/53

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3. COMPOSITION/INFORMATION ON INGREDIENTS

diethylenetriamine	111-40-0	3 - 7		Xn; R21/22 [1] [2] C; R34 R43
4,4'-isopropylidenediphenol	80-05-7	1 - 3		Repr. Cat. 3; [1] R62 Xi; R41, R37 R43 R52
polyoxypropylene diamine (R52/53)	9046-10-0	1 - 3		Xn; R21/22 [1] C; R34 R52/53
See section 16 for the full text of the R-phrases declared above				

There are no additional 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.

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] PBT-substance

[4] vPvB-substance

Occupational exposure limits, if available, are listed in Section 8.

4. FIRST AID MEASURES

First-aid measures

Inhalation

: Get medical attention immediately. 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.

Ingestion

: Get medical attention immediately. 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.

Skin contact

: Get medical attention immediately. Flush contaminated skin with plenty of 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.

Eye contact

: Get medical attention immediately. 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.

4. FIRST AID MEASURES

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.

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.

See Section 11 for more detailed information on health effects and symptoms.

5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable : Use an extinguishing agent suitable for the surrounding fire.

Not suitable : None known.

Special exposure hazards : In a fire or if heated, a pressure increase will occur and the container may burst. 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. This material is toxic to aquatic organisms. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.

Hazardous thermal decomposition products : Burning produces obnoxious and toxic fumes., Carbon oxides, Nitrogen oxides

Special protective equipment 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions : 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 (see Section 8).

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). Water polluting material. May be harmful to the environment if released in large quantities.

Methods for 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.

7. HANDLING AND STORAGE

- Handling** : Put on appropriate personal protective equipment (see Section 8). 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. Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Refer to special instructions/safety data sheet. 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.
- Storage** : 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. 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** : Storage class 8, Corrosive substances
Huntsman Advanced Materials
- Packaging materials**
Recommended : Use original container.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Ingredient name

diethylenetriamine

Occupational exposure limits

EH40/2005 WELs (United Kingdom (UK), 8/2007). Absorbed through skin.

TWA: 4.3 mg/m³ 8 hour(s).

TWA: 1 ppm 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 European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.
- Exposure controls**
- Occupational exposure controls** : If user operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
- Hygiene measures** : 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.
- Respiratory 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.
- Hand protection** : Material of gloves for long term application (BTT>480min):
(BTT = Break Through Time)
 butyl rubber, Ethyl Vinyl Alcohol Laminate (EVAL)

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Material of gloves for short term/splash application (10min<BTT<480min):
nitrile rubber

Use gloves approved to relevant standards e.g. EN 374 (Europe), F739 (US). Suitability and durability of a glove is dependent on usage, e.g. frequency and duration of contact, chemical resistance of glove material and dexterity. Always seek advice from glove suppliers.

Additional information can be found for instance at www.gisbau.de.

- Eye protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin 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.
- Environmental exposure 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

General information

Appearance

- Physical state** : Liquid. [Paste.]
- Colour** : Black.
- Odour** : Ammoniacal.

Important health, safety and environmental information

- Boiling point** : >200°C (>392°F)
- Flash point** : Closed cup: >100°C (>212°F) [DIN 51758 EN 22719 (Pensky-Martens Closed Cup)]
- Decomposition temperature** : >300°C (>572°F)
- Density** : 1.6 g/cm³ [25°C (77°F)]
- Water solubility** : Slightly soluble
- Viscosity** : Dynamic: 50000 to 120000 mPa·s (50000 to 120000 cP) 25 deg C

10. STABILITY AND REACTIVITY

- Chemical stability** : The product is stable.
- Possibility of hazardous reactions** : Under normal conditions of storage and use, hazardous reactions will not occur.
- Conditions to avoid** : No specific data.
- Materials to avoid** : strong acids, strong bases, strong oxidising agents
- Hazardous decomposition products** : Under normal conditions of storage and use, hazardous decomposition products should not be produced.
Burning produces obnoxious and toxic fumes., Carbon oxides, Nitrogen oxides

11. TOXICOLOGICAL INFORMATION

Toxicokinetics

- Absorption** : Not available.
- Distribution** : Contains material which may cause damage to the following organs: central nervous system (CNS).
- Metabolism** : Not available.
- Elimination** : Not available.

Potential acute health effects

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11. TOXICOLOGICAL INFORMATION

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.

Ingestion : May cause burns to mouth, throat and stomach.

Skin contact : Corrosive to the skin. Causes burns. May cause sensitisation by skin contact.

Eye contact : Corrosive to eyes. Causes burns.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
ARALDITE KIT 680 B CI	LD50 Oral	Rat	>2000 mg/kg	-
benzyl alcohol	LD50 Oral	Rat	1230 mg/kg	-
diethylenetriamine	LD50 Dermal	Rabbit	672 to 1240 mg/kg	-
	LD50 Oral	Rat	1080 to 2330 mg/kg	-
4,4'-isopropylidenediphenol	LD50 Dermal	Rabbit	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-

Conclusion/Summary : Not available.

Potential chronic health effects**Chronic toxicity**

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-isopropylidenediphenol	Sub-chronic NOAEL Oral	Dog - Male, Female	75 mg/kg	90 days; 7 days per week
	Sub-chronic NOEC Inhalation Dusts and mists	Rat - Male, Female	10 mg/m ³	13 weeks; 6 hours per day

Conclusion/Summary : Not available.

Irritation/Corrosion

Conclusion/Summary : Not available.

Sensitiser

Product/ingredient name	Route of exposure	Species	Result
ARALDITE KIT 680 B CI	skin	Guinea pig	Sensitising
isophorone diamine	skin	Guinea pig	Sensitising
2-piperazin-1-ylethylamine	skin	Guinea pig	Sensitising
benzyl alcohol	skin	Guinea pig	Sensitising
diethylenetriamine	skin	Guinea pig	Sensitising

Conclusion/Summary : Not available.

Carcinogenicity

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-isopropylidenediphenol	Negative - Oral - NOAEL	Rat - Male, Female	-	103 weeks; 7 days per week

Conclusion/Summary : Not available.

Mutagenicity

Product/ingredient name	Test	Experiment	Result
2-piperazin-1-ylethylamine	-	Experiment: In vitro Subject: Mammalian- Animal Cell: Somatic Metabolic activation: +/-	Negative
	-	Experiment: In vitro Subject: Mammalian- Animal Cell: Somatic	Negative
	-	Experiment: In vitro Subject: Mammalian- Animal	Negative
	-	Experiment: In vitro	Negative

11. TOXICOLOGICAL INFORMATION

	-	Subject: bacteria/yeast Metabolic activation: +/- Experiment: In vivo	Negative
4,4'-isopropylidenediphenol	-	Subject: Mammalian-Animal Experiment: In vitro	Negative
	OECD 474 Mammalian Erythrocyte Micronucleus Test	Metabolic activation: +/- Experiment: In vivo Subject: Mammalian-Animal	Negative

Conclusion/Summary : Not available.

Teratogenicity

Product/ingredient name	Result	Species	Dose	Exposure
4,4'-isopropylidenediphenol	Negative - Oral	Rat - Female	640 mg/kg	-

Conclusion/Summary : Not available.

Reproductive toxicity

Product/ingredient name	Maternal toxicity	Fertility	Developmental toxin	Species	Dose	Exposure
2-piperazin-1-ylethylamine	-	-	-	Rat	Oral	28 days
4,4'-isopropylidenediphenol	-	-	-	Rat - Male, Female	Oral	7 days per week

Conclusion/Summary : Not available.

Product name	Carcinogenic effects	Mutagenic effects	Developmental effects	Fertility effects
4-nonyl-phenol 4,4'-isopropylidenediphenol			Repr. Cat. 3; R63	Repr. Cat. 3; R62 Repr. Cat. 3; R62

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

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 : No known significant effects or critical hazards.

Over-exposure signs/symptoms

Inhalation : No specific data.

Ingestion : Adverse symptoms may include the following:
stomach pains

Skin : Adverse symptoms may include the following:
pain or irritation
redness
blistering may occur

Eyes : Adverse symptoms may include the following:
pain
watering
redness

12. ECOLOGICAL INFORMATION

Environmental effects : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. Water polluting material. May be harmful to the environment if released in large quantities.

Aquatic ecotoxicity

Product/ingredient name	Test	Result	Species	Exposure
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12. ECOLOGICAL INFORMATION

2-piperazin-1-ylethylamine	-	Acute EC50 > 1000 mg/L	Algae	72 hours
	-	Acute EC50 >100 mg/L	Fish	96 hours
	-	Acute EC50 32 mg/L	Daphnia	48 hours
	-	Chronic EC20 1600 mg/L	Bacteria	1 hours Static
	-	Chronic NOEC 31 mg/L	Algae	72 hours
4,4'-isopropylidenediphenol	-	Acute EC50 3.9 to 10.2 mg/L	Daphnia	48 hours
	-	Acute EC50 2.5 to 3.1 mg/L	Algae - Green algae	96 hours
	-	Acute LC50 7.5 mg/L	Fish - Rainbow trout (Oncorhynchus mykiss, Salmo gairdneri)	96 hours

Conclusion/Summary : Not available.

Other ecological information**Biodegradability****Product/ingredient name**

2-piperazin-1-ylethylamine

Test

-

Result<60 % - Inherent
- 28 days**Dose**

-

Inoculum

-

4,4'-isopropylidenediphenol

-

1 to 2 % -
Inherent - 28
days

-

-

Conclusion/Summary : Not available.

Bioaccumulative potential**Product/ingredient name**

2-piperazin-1-ylethylamine

LogP_{ow}

-1.48

BCF

-

Potential

low

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

13. DISPOSAL CONSIDERATIONS**Methods of disposal**

: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. 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. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

European waste catalogue (EWC)

: The relevant EU Directives and local, regional and national regulations must be complied with. It is among the tasks of the end user to assign the waste to waste codes specific to industrial sectors and processes according to the European Waste catalogue. It is recommended that the details be agreed with the waste disposer responsible.

Hazardous waste

: The classification of the product may meet the criteria for a hazardous waste.

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14. TRANSPORT INFORMATIONInternational transport regulations

Proper shipping name

- ADR** : Amines, liquid, corrosive, n.o.s. N-AMINOETHYL PIPERAZINE DIETHYLENE TRIAMINE ISOPHORONE DIAMINE (2-piperazin-1-ylethylamine)
- IMDG** : Amines, liquid, corrosive, n.o.s. (ISOPHORONE DIAMINE) (N-AMINOETHYL PIPERAZINE) (DIETHYLENE TRIAMINE) (). Marine pollutant ()
- IATA** : Amines, liquid, corrosive, n.o.s. (N-AMINOETHYL PIPERAZINE) (ISOPHORONE DIAMINE) (DIETHYLENE TRIAMINE) ()

Regulatory information	UN number	Classes	Packing group	Label	Additional information
Land - road/ railway ADR/RID Class	UN2735	8	III		Classification code C7 Hazard identification number 80
Sea IMDG Class	UN2735	8	III	 	Emergency schedules (EmS) F-A, S-B Marine pollutant
Air IATA Class	UN2735	8	III		Passenger and Cargo Aircraft Quantity limitation: 5 L Packaging instructions: 818 Cargo Aircraft Only Quantity limitation: 60 L Packaging instructions: 820

15. REGULATORY INFORMATIONEU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



C, N Corrosive, Dangerous for the environment

Risk phrases

- : R34- Causes burns.
R43- May cause sensitisation by skin contact.
R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety phrases

- : S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.
S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S61- Avoid release to the environment. Refer to special instructions/safety data sheet.

Contains

- : isophorone diamine
2-piperazin-1-ylethylamine
diethylenetriamine
4,4'-isopropylidenediphenol

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15. REGULATORY INFORMATION

International regulations

International lists

Europe inventory	: All components are listed or exempted.
United States inventory (TSCA 8b)	: All components are listed or exempted.
Canada inventory	: All components are listed or exempted.
Australia inventory (AICS)	: All components are listed or exempted.
China inventory (IECSC)	: All components are listed or exempted.
Japan inventory (ENCS)	: Not determined.
Philippines inventory (PICCS)	: All components are listed or exempted.

16. OTHER INFORMATION

Full text of R-phrases referred to in sections 2 and 3 - United Kingdom (UK)	: R62- Possible risk of impaired fertility. R63- Possible risk of harm to the unborn child. 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. R37- Irritating to respiratory system. R43- May cause sensitisation by skin contact. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. R52- Harmful to aquatic organisms. R52/53- Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Full text of classifications referred to in sections 2 and 3 - United Kingdom (UK)	: Repr. Cat. 3 - Toxic to reproduction category 3 C - Corrosive Xn - Harmful Xi - Irritant N - Dangerous for the environment

References

Epoxy Resins and Curing Agents; Toxicology, Health, Safety and Environmental Aspects (Plastics Europe, May 2006)

The provision of Safety Data Sheets comes under Regulation 6 of CHIP (CHIP is the recognised abbreviation for the Chemicals Hazard Information and Packaging Regulations). This is an addition to the Health and Safety at Work Act 1974.

Users of products supplied by Huntsman Advanced Materials should take appropriate measures to ensure working practices are in accordance with the Control of Substances Hazardous to Health Regulations (COSHH).

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Indicates information that has changed from previously issued version.

Notice to reader

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IN ALL CASES, IT IS THE RESPONSIBILITY OF THE USER TO DETERMINE THE APPLICABILITY OF SUCH INFORMATION AND RECOMMENDATIONS AND THE SUITABILITY OF ANY PRODUCT FOR ITS OWN PARTICULAR PURPOSE.

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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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