SAFETY DATA SHEET



ARBO® PRIMER 925

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

1.1 Product identifier

: ARBO® PRIMER 925 **Product name**

Product description Primer for use on porous substrates prior to the application of specified ARBO

products.

Other means of identification

: Not available.

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses				
Primer for use on porous substrates prior to the application of specified ARBO products.				
Uses advised against	Reason			
For professional users only.	-			

1.3 Details of the supplier of the safety data sheet

Adshead Ratcliffe & Co. Ltd. Derby Road, Belper Derbyshire.

DE56 1WJ

+44 (0)1773 826661

e-mail address of person responsible for this SDS

: SDSQueries@carlisleccm.com

1.4 Emergency telephone number

National advisory body/Poison Centre

Telephone number : National Poisons Information Service (NPIS)

Tel: 0344 892 0111 (for healthcare professionals only)

Website: http://www.npis.org/

Members of Public in England, Scotland and Wales can contact NHS 111/NHS 24

by dialling 111. In Northern Ireland contact your local GP.

Supplier

Telephone number : +44 (0)1773 826661

(Office hours: 8.30 - 17.00)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture Classification according to UK CLP/GHS

Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Lact., H362 **STOT SE 3, H335 STOT RE 2, H373**

Aquatic Acute 1, H400

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SECTION 2: Hazards identification

Aquatic Chronic 1, H410

The product is classified as hazardous according to UK CLP Regulation SI 2019/720 as amended.

See Section 16 for the full text of the H statements declared above.

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

2.2 Label elements

Hazard pictograms









Signal word Warning

Hazard statements : H226 - Flammable liquid and vapour.

H315 - Causes skin irritation.

H317 - May cause an allergic skin reaction. H319 - Causes serious eve irritation. H335 - May cause respiratory irritation.

H362 - May cause harm to breast-fed children.

H373 - May cause damage to organs through prolonged or repeated exposure.

H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements

Prevention : P201 - Obtain special instructions before use.

> P280 - Wear protective gloves/protective clothing/eye protection/face protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking.

P260 - Do not breathe vapour or spray.

P263 - Avoid contact during pregnancy and while nursing.

Response : P308 + P313 - IF exposed or concerned: Get medical advice/attention.

Storage : P403 + P235 - Store in a well-ventilated place. Keep cool.

Disposal Not applicable.

Supplemental label

elements

: Contains isocyanates. May produce an allergic reaction.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

: Not applicable.

Special packaging requirements

Containers to be fitted with child-resistant

fastenings

: Not applicable.

Tactile warning of danger : Not applicable.

2.3 Other hazards

Product meets the criteria for PBT or vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

: This mixture contains substances that are assessed to be a PBT or a vPvB, refer to

Section 3.2.

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

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SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture

Product/ingredient name	Identifiers	%	Classification	Type
reaction mass of ethylbenzene and xylene	REACH #: 01-2119539452-40	≥25 - ≤50	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol	EC: 500-120-8 CAS: 53317-61-6	≥10 - ≤25	Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
alkanes, C14-17, chloro	REACH #: 01-2119519269-33 EC: 287-477-0 CAS: 85535-85-9 Index: 602-095-00-X	≥10 - ≤25	Lact., H362 Aquatic Acute 1, H400 (M=100) Aquatic Chronic 1, H410 (M=10) EUH066	[1] [3] [4]
2-methoxy-1-methylethyl acetate	REACH #: 01-2119475791-29 EC: 203-603-9 CAS: 108-65-6 Index: 607-195-00-7	≤5	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
toluene	REACH #: 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3	<1	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 (central nervous system (CNS)) (inhalation) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	[1] [2]
m-tolylidene diisocyanate	REACH #: 01-2119454791-34 EC: 247-722-4 CAS: 26471-62-5 Index: 615-006-00-4	<0.1	Acute Tox. 1, H330 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 Aquatic Chronic 3, H412 See Section 16 for the full text of the H statements declared	[1] [2]

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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT
- [4] Substance meets the criteria for vPvB

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eve contact

: 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.

Inhalation

: 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. Get medical attention. If necessary, call a poison center or physician. 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.

Skin contact

: 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.

Ingestion

: Wash out mouth with water. Remove dentures if any. 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 following exposure or if feeling unwell. 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

Over-exposure signs/symptoms

Eye contact: Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

4.3 Indication of any immediate 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: No specific treatment.

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SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

: Use dry chemical, CO₂, water spray (fog) or foam.

Unsuitable extinguishing media

: Do not use water jet.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture

: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very 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.

Hazardous combustion products

: Decomposition products may include the following materials:

carbon dioxide carbon monoxide nitrogen oxides

halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters

: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective 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.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective 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. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

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

6.3 Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Move containers from spill area. Use spark-proof tools and 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.

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SECTION 6: Accidental release measures

Large spill

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 noncombustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

6.4 Reference to other sections

: See Section 1 for emergency contact information.

See Section 8 for information on appropriate personal protective equipment.

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. Avoid exposure - obtain special instructions before use. Avoid contact during pregnancy or while nursing. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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.

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 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. Store locked up. Eliminate all ignition sources. Separate from oxidising 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. See Section 10 for incompatible materials before handling or use.

Seveso Directive - Reporting thresholds

Danger criteria

	Notification and MAPP threshold	Safety report threshold
P5c	5000 tonne	50000 tonne
E1	100 tonne	200 tonne

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m³ 15 minutes.
	STEL: 125 ppm 15 minutes.
	TWA: 100 ppm 8 hours.
	TWA: 441 mg/m³ 8 hours.
xylene	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
2-methoxy-1-methylethyl acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 548 mg/m³ 15 minutes.
	TWA: 50 ppm 8 hours. TWA: 274 mg/m³ 8 hours.
	STEL: 100 ppm 15 minutes.
toluene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
toluerie	through skin.
	STEL: 384 mg/m³ 15 minutes.
	TWA: 191 mg/m ³ 8 hours.
	TWA: 50 ppm 8 hours.
	STEL: 100 ppm 15 minutes.
m-tolylidene diisocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates,
,	all, except methyl isocyanate as –NCO] Inhalation sensitiser.
	STEL: 0.07 mg/m³, (as -NCO) 15 minutes.
	TWA: 0.02 mg/m³, (as -NCO) 8 hours.

Biological exposure indices

Product/ingredient name	Exposure indices
xylene	EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.
m-tolylidene diisocyanate	EH40/2005 BMGVs (United Kingdom (UK), 1/2020) [Isocyanates] BMGV: 1 μmol/mol creatinine, diamine [in urine]. Sampling time: post task.

Recommended monitoring procedures

: Reference should be made to appropriate monitoring standards. Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

Product/ingredient name	Type	Exposure	Value	Population	Effects
reaction mass of ethylbenzene and xylene	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	221 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Long term Dermal	212 mg/kg bw/day	Workers	Systemic

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SECTION 8: Exposure controls/personal protection

DEOTION O. Exposure cont	. O.O. P	ordonal proto	01.011		
	DNEL	Long term	65.3 mg/m ³		Systemic
		Inhalation	, ,	population	
	DNEL	Short term	260 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Long term	65.3 mg/m ³	General	Local
		Inhalation	Ü	population	
	DNEL	Short term	260 mg/m ³	General	Local
	DIVLL	Inhalation	200 1119/111	population	Local
	DNEL	Long term Dermal	125 ng/kg	General	Cystomia
	DIVEL	Long term Dermai			Systemic
	DAIE	1	bw/day	population	01
	DNEL	Long term Oral	12.5 mg/	General	Systemic
			kg bw/day	population	
alkanes, C14-17, chloro	DNEL	Long term Oral	0.58 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term	2 mg/m³	General	Systemic
		Inhalation		population	-
	DNEL	Long term	6.7 mg/m ³	Workers	Systemic
	5.122	Inhalation	o.,g,	TT GIRGIG	Cycloniic
	DNEL	Long term Dermal	28.75 mg/	General	Systemic
	DINEL	Long term Dermal		population	Cystellic
	DAIE	I	kg bw/day		0
	DNEL	Long term Dermal	47.9 mg/	Workers	Systemic
			kg bw/day	_	
2-methoxy-1-methylethyl acetate	DNEL	Long term	33 mg/m³	General	Local
		Inhalation		population	
	DNEL	Long term	33 mg/m³	General	Systemic
		Inhalation	· ·	population	•
	DNEL	Long term Oral	36 mg/kg	General	Systemic
	DIVLL	Long tomi oral	bw/day	population	Cyclonic
	DNEL	Long term	275 mg/m ³	Workers	Systemic
	DIVLL		27 5 mg/m	WOIKEIS	Systernic
	DNE	Inhalation	000//	0	0
	DNEL	Long term Dermal	320 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Short term	550 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term Dermal	796 mg/kg	Workers	Systemic
			bw/day		
toluene	DNEL	Long term Oral	8.13 mg/	General	Systemic
		3	kg bw/day	population	,
	DNEL	Long term	56.5 mg/m ³		Local
	J. 1LL	Inhalation	55.5 mg/m	population	
	DNEL	Long term	56.5 mg/m ³		Systemic
	DINEL		50.5 mg/m		Systemic
	DAIT	Inhalation	400 / 3	population	
	DNEL	Long term	192 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Long term	192 mg/m ³	Workers	Systemic
		Inhalation			
	DNEL	Long term Dermal	226 mg/kg	General	Systemic
			bw/day	population	,
	DNEL	Short term	226 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	226 mg/m ³	General	Systemic
	DINCL	Inhalation	220 mg/m	population	Cystollio
	חארי		204 m = //45		Customic
	DNEL	Long term Dermal	384 mg/kg	Workers	Systemic
	D. 11-1		bw/day	14	
	DNEL	Short term	384 mg/m ³	Workers	Local
		Inhalation			
	DNEL	Short term	384 mg/m ³	Workers	Systemic
		Inhalation			•
		<u> </u>			

PNECs

SECTION 8: Exposure controls/personal protection

Fresh water	Product/ingredient name	Compartment Detail	Value	Method Detail
Marine water Sewage Treatment Plant Fresh water sediment Marine water sediment Soil Sewage Treatment Plant Presh water sediment Presh water	reaction mass of ethylbenzene and xylene	Fresh water	0.327 mg/l	-
Sewage Treatment Plant Plant Fresh water sediment Marine water sediment Soil 12.46 mg/kg - 12.46 mg		Fresh water	0.327 mg/l	-
Plant Fresh water sediment Marine water sediment Soil 12.46 mg/kg - 2.31 mg/kg - 3.31 mg/kg - 3		Marine water	0.327 mg/l	-
Fresh water sediment Marine water sediment Marine water sediment Soil 2.46 mg/kg - 2.31 mg/kg dwt - 2.32 mg/kg dwt - 2.33 mg/kg - 3.34 mg/k		Sewage Treatment	6.58 mg/l	-
Marine water sediment Soil 2.31 mg/kg - 2.3				
Soil 2.31 mg/kg - 1				-
Fresh water 1 μg/l - 0.2 μg/l - 80 mg/l - 80 mg/kg dwt - 80 mg/l - 80 mg/kg				-
Marine water Sewage Treatment Plant Sewage Tresh water sediment Marine water sediment Soil 11.9 mg/kg dwt - 2.6 mg/kg dwt - 11.9 mg/kg dwt - 12.6 mg/kg - 12.6 m			0 0	-
Sewage Treatment Plant Fresh water sediment Soil Secondary Poisoning 10 mg/kg dwt - 11.9 mg/kg	alkanes, C14-17, chloro			-
Plant Fresh water sediment Marine water sediment Soil Secondary Poisoning 10 mg/kg dwt - 11.9 mg/kg - 11.9 mg/k				-
Fresh water sediment Marine water sediment Soil			80 mg/l	-
Marine water sediment Soil 11.9 mg/kg dwt -			13 mg/kg dwt	_
Soil Secondary Poisoning 11.9 mg/kg dwt Secondary Poisoning 10 mg/kg -				_
Secondary Poisoning Fresh water 0.635 mg/l -		Soil		-
2-methoxy-1-methylethyl acetate Fresh water Fresh water Fresh water Fresh water Sewage Treatment Plant Fresh water sediment Marine water sediment Soil toluene Fresh water sediment Plant Fresh water sediment Fresh water Fresh water Fresh water Fresh water Fresh water Fresh water Marine water Fresh wate		Secondary Poisoning		-
Fresh water	2-methoxy-1-methylethyl acetate			-
Sewage Treatment Plant		Fresh water		-
Plant Fresh water sediment Marine water sediment Soil 0.29 mg/kg dwt - 0.329 mg/kg dwt - 0.329 mg/kg dwt - 0.329 mg/kg dwt - 0.68 mg/l -		Marine water	0.064 mg/l	_
Fresh water sediment Marine water sediment Soil 0.29 mg/kg dwt - 0.329 mg/kg dwt - 0.29 mg/kg dwt - 0.68 mg/l - 0.39 mg/kg - 0.013 mg/l - 0.125 mg/l - 0.013 mg/l - 0.125 mg/l - 0.001 mg/				-
Marine water sediment Soil 0.329 mg/kg dwt -			3 20 ma/ka dwt	
Soil 0.29 mg/kg dwt -				-
Fresh water				-
Fresh water	toluene			-
Marine water Sewage Treatment 13.61 mg/l -	tolderie			-
Sewage Treatment Plant Fresh water sediment Soil Tresh water Fresh water sediment Soil Tresh water Tre				-
Plant Fresh water sediment Marine water sediment Soil Fresh water The shape water sediment Soil Fresh water The shape water water The shape water The shape water water The shape water water The shape water water The shape water water water The shape water water The shape water water water The shape water water water water The shape water water water water water The shape water				-
Marine water sediment Soil 16.39 mg/kg 2.89			13.01 mg/l	-
Soil 2.89 mg/kg - m-tolylidene diisocyanate Fresh water 0.013 mg/l - Fresh water 0.125 mg/l - Marine water 0.001 mg/l - Sewage Treatment 1 mg/l -		Fresh water sediment	16.39 mg/kg	-
m-tolylidene diisocyanate Fresh water Fresh water 0.013 mg/l - 0.125 mg/l - 0.001 mg/l - Sewage Treatment Plant Omeganism 1 mg/l - Img/l		Marine water sediment	16.39 mg/kg	-
Fresh water 0.125 mg/l - Marine water 0.001 mg/l - Sewage Treatment 1 mg/l - Plant		Soil	2.89 mg/kg	-
Marine water 0.001 mg/l - Sewage Treatment 1 mg/l - Plant	m-tolylidene diisocyanate	Fresh water		-
Sewage Treatment 1 mg/l - Plant	-	Fresh water	0.125 mg/l	-
Plant		Marine water		-
			1 mg/l	-
Soil 11 ma/ka -		Soil	1 mg/kg	

8.2 Exposure controls

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Individual protection measures

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.

Eye/face 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, 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

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SECTION 8: Exposure controls/personal protection

Hand protection

: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Viton®

polyvinyl alcohol (PVA)

Body 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. 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.

Other skin protection

: Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection

Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

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.

SECTION 9: Physical and chemical properties

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

9.1 Information on basic physical and chemical properties

Appearance

Physical state : Liquid.

Colour : Straw.

Odour : Aromatic.

Odour threshold : Not available.

Melting point/freezing point : Not available.

Initial boiling point and : Not available.

boiling range

Flammability (solid, gas) : Not available.

Upper/lower flammability or : Not available.

explosive limits

Floor broadest

Flash point

	Closed cup			Open cup		
Ingredient name	°C	°F	Method	°C	°F	Method
toluene	4.4	39.9				
reaction mass of ethylbenzene and xylene	27	80.6				
2-methoxy-1-methylethyl acetate				45.5	113.9	ASTM D 3278
m-tolylidene diisocyanate	131.85	269.3				

Auto-ignition temperature

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SECTION 9: Physical and chemical properties

Ingredient name	°C	°F	Method
2-methoxy-1-methylethyl acetate	333	631.4	DIN 51794
toluene	480	896	
m-tolylidene diisocyanate	>595	>1103	EU A.15

Decomposition temperature : Not available.

pН Not available.

: Dynamic: 55000 to 75000 mPa·s **Viscosity**

Solubility in water : Not available. Partition coefficient: n-octanol/ : Not applicable.

water

Vapour pressure

	Vapour Pressure at 20°C			Vapour pressure at 50°C		
Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
toluene	23.17	3.1				
2-methoxy-1-methylethyl acetate	2.7	0.36	OECD 104			
m-tolylidene diisocyanate	0.01	0.0013	EU A.4			
alkanes, C14-17, chloro	0	0				

Relative density : Not available.

: 1.15 g/cm³ [20°C (68°F)] **Density**

Vapour density : Not available. **Explosive properties** : Not available. **Oxidising properties** : Not available.

Particle characteristics

Median particle size : Not applicable.

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 conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld,

braze, solder, drill, grind or expose containers to heat or sources of ignition.

: Reactive or incompatible with the following materials: 10.5 Incompatible materials

oxidising materials

10.6 Hazardous decomposition products : Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Decomposition products may include the following materials:

carbon oxides (CO, CO₂)

Aldehyde. Hydrocarbon.

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SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
reaction mass of	LC50 Inhalation Vapour	Rat	27124 mg/m³	4 hours
ethylbenzene and xylene				
	LD50 Dermal	Rabbit	12126 mg/kg	-
	LD50 Oral	Rat	3523 mg/kg	-
Toluene diisocyanate,	LC50 Inhalation Dusts and	Rat	>3820 mg/l	4 hours
oligomeric reaction	mists			
products with 2,2'-				
oxydiethanol and				
propylidenetrimethanol				
	LD50 Oral	Rat	>2000 mg/kg	-
2-methoxy-1-methylethyl	LD50 Dermal	Rabbit	>5 g/kg	-
acetate				
	LD50 Oral	Rat	8532 mg/kg	-
toluene	LC50 Inhalation Vapour	Rat	49 g/m³	4 hours
m-tolylidene diisocyanate	LC50 Inhalation Vapour	Rat - Male,	0.107 mg/l	4 hours
		Female		
	LD50 Oral	Rat	4130 mg/kg	-

Conclusion/Summary

: Based on available data, the classification criteria are not met.

Acute toxicity estimates

Product/ingredient name	Oral (mg/ kg)	Dermal (mg/kg)	Inhalation (gases) (ppm)	Inhalation (vapours) (mg/l)	Inhalation (dusts and mists) (mg/l)
ARBO® PRIMER 925	N/A	2472.4	N/A	24.7	N/A
reaction mass of ethylbenzene and xylene	3523	1100	N/A	11	N/A
2-methoxy-1-methylethyl acetate	8532	N/A	N/A	N/A	N/A
toluene	N/A	N/A	N/A	49	N/A
m-tolylidene diisocyanate	4130	N/A	N/A	0.107	N/A

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
reaction mass of ethylbenzene and xylene	Eyes - Irritant	Rabbit	-	-	-
	Skin - Irritant	Rabbit	-	-	-
toluene	Eyes - Mild irritant	Rabbit	-	0.5 minutes 100 mg	-
	Eyes - Mild irritant	Rabbit	-	870 ug	-
	Eyes - Severe irritant	Rabbit	-	24 hours 2 mg	-
	Skin - Mild irritant	Pig	-	24 hours 250 uL	-
	Skin - Mild irritant	Rabbit	-	435 mg	-
	Skin - Moderate irritant	Rabbit	-	24 hours 20 mg	-
	Skin - Moderate irritant	Rabbit	-	500 mg	_
m-tolylidene diisocyanate	Skin - Severe irritant	Rabbit	-	500 mg	-

Conclusion/Summary

Skin : Skin Irrit. 2 Eyes : Eye Irrit. 2

Respiratory : STOT SE 3 respiratory tract irritation

Sensitisation

Conclusion/Summary

Skin Sens. 1

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SECTION 11: Toxicological information

Respiratory: Based on available data, the classification criteria are not met.

Mutagenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Carcinogenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Reproductive toxicity

Conclusion/Summary: Lact. May cause harm to breast-fed children.

Teratogenicity

Conclusion/Summary: Based on available data, the classification criteria are not met.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
reaction mass of ethylbenzene and xylene	Category 3	-	Respiratory tract irritation
2-methoxy-1-methylethyl acetate	Category 3	-	Narcotic effects
toluene	Category 3	-	Narcotic effects
m-tolylidene diisocyanate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
	Category 2 Category 2		- central nervous system (CNS)

Aspiration hazard

Product/ingredient name	Result
reaction mass of ethylbenzene and xylene toluene	ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1

Information on likely routes

of exposure

: Routes of entry anticipated: Oral, Dermal, Inhalation, Eyes.

Potential acute health effects

Eye contact : Causes serious eye irritation. **Inhalation** : May cause respiratory irritation.

Skin contact: Causes skin irritation. May cause an allergic skin reaction.

Ingestion : No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : Adverse symptoms may include the following:

pain or irritation watering redness

Inhalation : Adverse symptoms may include the following:

respiratory tract irritation

coughing

Skin contact: Adverse symptoms may include the following:

irritation redness

Ingestion : Adverse symptoms may include the following:

nausea or vomiting

Delayed and immediate effects as well as chronic effects from short and long-term exposure

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SECTION 11: Toxicological information

Short term exposure

Potential immediate : Irritating to eyes, respiratory system and skin.

effects May cause skin sensitisation.

Potential delayed effects : Not available.

Long term exposure

Potential immediate

effects

: Not available.

Potential delayed effects : Not available.

Potential chronic health effects

Not available.

Conclusion/Summary: Not available.

General: May cause damage to organs through prolonged or repeated exposure. 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.

Reproductive toxicity: May cause harm to breast-fed children.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
reaction mass of ethylbenzene and xylene	Acute LC50 2.6 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
alkanes, C14-17, chloro	Acute EC50 0.0059 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Chronic NOEC 0.0087 mg/l Fresh water	Daphnia - Daphnia magna	21 days
2-methoxy-1-methylethyl acetate	Acute EC50 >1000 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 >500 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	48 hours
	Acute LC50 134 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Chronic NOEC >100 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 47.5 mg/l Fresh water	Fish - Oryzias latipes	14 days
toluene	Acute EC50 >433 ppm Marine water	Algae - Diatom - Skeletonema costatum	96 hours
	Acute EC50 11600 μg/l Fresh water	Crustaceans - Scud - Gammarus pseudolimnaeus - Adult	48 hours
	Acute EC50 6000 μg/l Fresh water	Daphnia - Water flea - <i>Daphnia magna</i> - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 5500 μg/l Fresh water	Fish - Coho salmon,silver salmon - Oncorhynchus kisutch - Fry	96 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Water flea - <i>Daphnia</i> magna	21 days

Conclusion/Summary : Aquatic Acute 1 Aquatic Chronic 1

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
2-methoxy-1-methylethyl acetate	-	>90 % - Readily - 28 days	-	-

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SECTION 12: Ecological information

Conclusion/Summary: Not available.

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
reaction mass of ethylbenzene and xylene	-	-	Readily
alkanes, C14-17, chloro 2-methoxy-1-methylethyl	-	-	Not readily Readily
acetate toluene	-	-	Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
alkanes, C14-17, chloro 2-methoxy-1-methylethyl acetate	4.7 to 8.3 1.2	10500 to 14600 -	High Low
toluene m-tolylidene diisocyanate	2.73 3.43	90	Low Low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility : Not available.

12.5 Results of PBT and vPvB assessment

Product/ingredient name	PBT	Р	В	Т	vPvB	vP	vB
Toluene diisocyanate, oligomeric reaction products with 2,2'-oxydiethanol and propylidenetrimethanol	No	N/A	N/A	No	N/A	N/A	N/A
alkanes, C14-17, chloro	Yes	Yes	Yes	Yes	Yes	Yes	Yes
2-methoxy-1-methylethyl acetate	No	N/A	N/A	No	N/A	N/A	N/A
toluene m-tolylidene diisocyanate	No No	N/A N/A	No N/A	Yes No	No N/A	N/A N/A	No N/A

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

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.

Waste catalogue

Waste code	Waste designation
14 06 03*	other solvents and solvent mixtures

Packaging

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SECTION 13: Disposal considerations

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. 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

	ADR/RID	ADN	IMDG	IATA
14.1 UN number	UN1263	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	PAINT RELATED MATERIAL	Paint related material
14.3 Transport hazard class(es)	3	3	3	3
14.4 Packing group	III	III	III	III
14.5 Environmental hazards	Yes.	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.

Additional information

ADR/RID

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Hazard identification number 30

Limited quantity 5 L

Special provisions 163, 650, 367

Tunnel code (D/E)

ADN

: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.

Special provisions 163, 367, 650

IMDG

The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. Emergency schedules F-E, _S-E

Special provisions 163, 223, 367, 955

IATA

The environmentally hazardous substance mark may appear if required by other transportation regulations.

Quantity limitation Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities -Passenger Aircraft: 10 L. Packaging instructions: Y344.

Special provisions A3, A72, A192

user

14.6 Special precautions for : 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 according to IMO instruments

: Not available.

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SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture UK (GB)/REACH

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.

Ozone depleting substances

Not listed.

Prior Informed Consent (PIC)

Not listed.

Persistent Organic Pollutants

Not listed.

<u>Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles</u>

Product/ingredient name	%	Designation [Usage]
ARBO® PRIMER 925 toluene m-tolylidene diisocyanate	≥90 <1 <0.1	3 48 74

Labelling : Not applicable.

Seveso Directive

This product is controlled under the Seveso Directive.

Danger criteria

Category	
P5c	
E1	

EU regulations

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Air

Industrial emissions : Not listed

(integrated pollution prevention and control) -

Water

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

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SECTION 15: Regulatory information

Inventory list

Australia : Not determined.
Canada : Not determined.
China : Not determined.

Eurasian Economic Union: Russian Federation inventory: Not determined.

Japan inventory (CSCL): Not determined.

Japan inventory (ISHL): Not determined.

New Zealand : Not determined. **Philippines** : Not determined. Republic of Korea : Not determined. **Taiwan** : Not determined. **Thailand** : Not determined. : Not determined. **Turkey** : Not determined. **United States** : Not determined. **Viet Nam**

15.2 Chemical safety : This product contains substances for which Chemical Safety Assessments are still

assessment required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

GB CLP = UK CLP (EC No 1272/2008) on the Classification, Labelling and

Packaging of Substances and Mixtures as amended by (EU Exit) Regulations 2019

No. 720 and amendments

DMEL = Derived Minimal Effect Level
DNEL = Derived No Effect Level

EUH statement = GB CLP-specific Hazard statement

N/A = Not available

PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number

SGG = Segregation Group

vPvB = Very Persistent and Very Bioaccumulative

Procedure used to derive the classification

Classification	Justification	
Flam. Liq. 3, H226	Expert judgment	
Skin Irrit. 2, H315	Calculation method	
Eye Irrit. 2, H319	Calculation method	
Skin Sens. 1, H317	Calculation method	
Lact., H362	Calculation method	
STOT SE 3, H335	Calculation method	
STOT RE 2, H373	Calculation method	
Aquatic Acute 1, H400	Calculation method	
Aquatic Chronic 1, H410	Calculation method	

Full text of abbreviated H statements

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

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SECTION 16: Other information

H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H362	May cause harm to breast-fed children.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.

Full text of classifications

Acute Tox. 1	ACUTE TOXICITY - Category 1
Acute Tox. 4	ACUTE TOXICITY - Category 4
Aquatic Acute 1	SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1
Aquatic Chronic 1	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
Aquatic Chronic 3	LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3
Asp. Tox. 1	ASPIRATION HAZARD - Category 1
Carc. 2	CARCINOGENICITY - Category 2
Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Lact.	REPRODUCTIVE TOXICITY - Effects on or via lactation
Repr. 2	REPRODUCTIVE TOXICITY - Category 2
Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Sens. 1	SKIN SENSITISATION - Category 1
STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3

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Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.

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