

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878

SAFETY DATA SHEET

F69 TUK BLACK RAL 9004

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

RAL 9004

Product name	:	F69 TUK BLACK
SDS code	:	21069900K

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

Identified uses		
Paint. Professional use Industrial use		
	Uses advised against	
All other uses		
Product use	: Two component coating for interior use.	

1.3 Details of the supplier of the safety data sheet

MAPAERO SAS 10, Avenue de la Rijole CS30098 09103 PAMIERS Cedex France e-mail address of person : PSRA PAMIERS@akzonobel.com

1.4 Emergency telephone number

responsible for this SDS

National advisory body/Poison Center		
Telephone number	: +34 156 20420	
Supplier		

Telephone number	: +33 (0)5 34 01 34 01 +33 (0)5 61 60 23 30
Hours of operation	:

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Mam. Liq. 3, H226 Skin Corr. 1C, H314 Skin Sens. 1, H317 Muta. 2, H341 Repr. 1B, H360 Aquatic Chronic 2, H411

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

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

Date of issue/Date of revision	: 19-10-2022	Version : 2	
Date of previous issue	: 2-10-2022	1/20	AkzoNobel

SECTION 2: Hazards identification

Date of previous issue

: 2-10-2022

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

2.2 Label elements Hazard pictograms Signal word : Danger Hazard statements : Mammable liquid and vapor. Causes severe skin burns and eye damage. May cause an allergic skin reaction. Suspected of causing genetic defects. May damage fertility or the unborn child. Toxic to aquatic life with long lasting effects. **Precautionary statements** Prevention : Obtain special instructions before use. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Avoid breathing vapor. : Collect spillage. IF exposed or concerned: Get medical advice or attention. IF Response INHALED: Immediately call a POISON CENTER or doctor. IF SWALLOWED: Immediately call a POISON CENTER or doctor. Rinse mouth. Do NOT induce vomiting. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER or doctor. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor. Storage : Store in a well-ventilated place. Keep cool. Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. : reaction product: bisphenol-A-(epichlorhydrin); epoxy resin Hazardous ingredients 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane Amines, polyethylenepoly-, triethylenetetramine fraction Supplemental label : Contains epoxy constituents. May produce an allergic reaction. elements Annex XVII - Restrictions : Restricted to professional users. on the manufacture. placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria : This mixture contains substances that are assessed to be a PBT or a vPvB, refer to for PBT or vPvB according Section 3.2. to Regulation (EC) No. 1907/2006, Annex XIII Date of issue/Date of revision : 19-10-2022 Version : 2

2/20

AkzoNobel

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 F69 TUK BLACK RAL 9004

SECTION 2: Hazards identification

Other hazards which do : None known.

not result in classification

The mixture may be a skin sensitizer. It may also be a skin irritant and repeated contact may increase this effect.

SECTION 3: Composition/information on ingredients

3.2 Mixtures : Mixture				
Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
putan-2-ol	REACH #: 01-2119475146-36 EC: 201-158-5 CAS: 78-92-2	≥10 - <20	Flam. Liq. 3, H226 Eye Irrit. 2, H319 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6 Index: 603-074-00-8	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
nitroethane	REACH #: 01-2119966158-27 EC: 201-188-9 CAS: 79-24-3 Index: 609-035-00-1	≤10	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H332	[1] [2]
1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 2- (chloromethyl)oxirane	REACH #: 01-2120078341-60 CAS: 30499-70-8	≤10	Skin Corr. 1C, H314 Skin Sens. 1B, H317 Muta. 2, H341 (oral) Repr. 1B, H360 (oral) Aquatic Chronic 2, H411	[1]
Terphenyl, hydrogenated	REACH #: 01-2119488183-33 EC: 262-967-7 CAS: 61788-32-7	≤3	Aquatic Chronic 2, H411	[1] [2] [4
zinc oxide	EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≤3	Aquatic Acute 1, H400 (M=1) Aquatic Chronic 1, H410 (M=1)	[1]
Amines, polyethylenepoly-, triethylenetetramine fraction	EC: 292-588-2 CAS: 90640-67-8	≤3	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[1]
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	REACH #: 01-2119513212-58 EC: 219-784-2 CAS: 2530-83-8	≤3	Eye Dam. 1, H318	[1]
			See Section 16 for the full text of the H statements 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, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>



SECTION 3: Composition/information on ingredients

[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

[6] Additional disclosure due to company policy

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Set 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	: Set 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.
Skin contact	: Set 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	: Set 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

There are no data available on the mixture itself. The mixture has been assessed following the conventional method of the CLP Regulation (EC) No 1272/2008 and is classified for toxicological properties accordingly. See Sections 2 and 3 for details.

Exposure to component solvent vapor concentrations in excess of the stated occupational exposure limit may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on the kidneys, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue, muscular weakness, drowsiness and, in extreme cases, loss of consciousness.

Solvents may cause some of the above effects by absorption through the skin. Repeated or prolonged contact with

Date of issue/Date of revision	: 19-10-2022	Version : 2	
Date of previous issue	: 2-10-2022	4/20	AkzoNobel

SECTION 4: First aid measures

the mixture may cause removal of natural fat from the skin, resulting in non-allergic contact dermatitis and absorption through the skin.

If splashed in the eyes, the liquid may cause irritation and reversible damage.

Ingestion may cause nausea, diarrhea and vomiting.

This takes into account, where known, delayed and immediate effects and also chronic effects of components from short-term and long-term exposure by oral, inhalation and dermal routes of exposure and eye contact.

Based on the properties of the epoxy constituent(s) and considering toxicological data on similar mixtures, this mixture may be a skin sensitizer and an irritant. It contains low-molecular weight epoxy constituents which are irritating to eyes, mucous membranes and skin. Repeated skin contact may lead to irritation and to sensitization, possibly with cross-sensitization to other epoxies. Skin contact with the mixture and exposure to spray, mist and vapors should be avoided.

Contains reaction product: bisphenol-A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700), 1,3-Propanediol, 2-ethyl-2-(hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane, Amines, polyethylenepoly-, triethylenetetramine fraction. May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact	Adverse symptoms may include the following: pain watering redness
Inhalation	 Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	 Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	 Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

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.

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , 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 vapor. 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 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.

Date of issue/Date of revision	: 19-10-2022	Version :2	
Date of previous issue	: 2-10-2022	5/20	AkzoNobel

SECTION 5: Firefighting measures					
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides phosphorus 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. 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.				

SECTION 6: Accidental release measures

6.1 Personal precautions, pro	tective 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	: If specialized 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 spilled 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 materials 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.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach 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 spilled product.
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 exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapor 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 oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled 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
E2	200 tonne	500 tonne

7.3 Specific end use(s)

Recommendations	: Not available.
Industrial sector specific	: Not available.
solutions	

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits



Product/ingredient name	Exposure limit values
øutan-2-ol	National institute of occupational safety and health (Spain, 2/2019).
	TWA: 308 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
nitroethane	National institute of occupational safety and health (Spain,
	2/2019). Absorbed through skin.
	TWA: 62 mg/m ³ 8 hours.
	TWA: 20 ppm 8 hours.
	STEL: 312 mg/m ³ 15 minutes.
	STEL: 100 ppm 15 minutes.
Terphenyl, hydrogenated	National institute of occupational safety and health (Spain,
	2/2019).
	TWA: 2 ppm 8 hours.
	TWA: 20 mg/m ³ 8 hours.
	STEL: 5 ppm 15 minutes.
	STEL: 50 mg/m ³ 15 minutes.
	product contains ingredients with exposure limits, personal, workplace
of the protect the foll	ohere or biological monitoring may be required to determine the effectivener ventilation or other control measures and/or the necessity to use respiratory ive equipment. Reference should be made to monitoring standards, such owing: European Standard EN 689 (Workplace atmospheres - Guidance f sessment 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

(Workplace atmospheres - General requirements for the performance of procedures

documents for methods for the determination of hazardous substances will also be

of exposure to chemical and biological agents) European Standard EN 482

for the measurement of chemical agents) Reference to national guidance

SECTION 8: Exposure controls/personal protection

required.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
outan-2-ol	DNEL	Long term Oral	15 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term	52 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Dermal	203 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Inhalation	212 mg/m ³	Workers	Systemic
	DNEL	Long term Dermal	405 mg/kg bw/day	Workers	Systemic
reaction product: bisphenol-A-	DNEL	Short term	0.75 mg/	General	Systemic
(epichlorhydrin); epoxy resin		Inhalation	kg bw/day	population	
(number average molecular weight ≤ 700)			0 ,	[Consumers]	
s 700)	DNEL	Long term	0.75 mg/m ³	General	Systemic
	DITEE	Inhalation	0.1 0 mg/m	population	eyetenne
				[Consumers]	
	DNEL	Short term Oral	0.75 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Long term Oral	0.75 mg/	General	Systemic
		5	kg bw/day	population	,
	DNEL	Short term Dermal	3.571 mg/	General	Systemic
			kg bw/day	population	,
	DNEL	Long term Dermal	3.571 mg/	General	Systemic
			kg bw/day	population	
	DNEL	Short term Dermal	8.33 mg/	Workers	Systemic
of issue/Date of revision : 19-	10-2022	<u> </u>	Version	:2	I
e of previous issue : 2-1	0-2022		8/20		AkzoNob

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 F69 TUK BLACK RAL 9004

e of issue/Date of revision	: 19-10-2022 : 2-10-2022		Version 9/20	:2	AkzoNobe
	DNEL	Long term	2.5 mg/m ³	General	Systemic
	DNEL	Inhalation Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
zinc oxide	DNEL	Inhalation Long term	0.5 mg/m ³	Workers	Local
	DNEL	Long term	kg bw/day 83.8 mg/m³		Local
	DNEL	Long term Dermal	kg bw/day 46.3 mg/	population Workers	Systemic
	DNEL	Inhalation Long term Dermal	27.8 mg/	population General	Systemic
	DNEL	Inhalation Long term	25 mg/m³	General	Local
	DNEL	Long term	8.38 mg/m ³	Workers	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Systemic
	DNEL	Long term Oral	0.3 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.074 mg/ kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Dermal	0.222 mg/ kg bw/day	Workers	Systemic
		Inhalation	m ³	population [Consumers]	
	DNEL	Long term	kg bw/day 0.358 mg/	General	Systemic
	DNEL	Inhalation Long term Dermal	0.622 mg/	Workers	Systemic
Terphenyl, hydrogenated	DNEL	Long term	kg bw/day 2.01 mg/m³		Systemic
	DNEL	Short term Dermal	kg bw/day 2100 mg/	population Workers	Systemic
	DNEL	Short term Dermal	bw/day 1250 mg/	General	Systemic
	DNEL	Long term Dermal	bw/day 350 mg/kg	population Workers	Systemic
	DNEL	Inhalation Long term Dermal	210 mg/kg	General	Systemic
	DNEL	Inhalation Short term	50 mg/m ³	Workers	Local
	DNEL	Inhalation Long term	25 mg/m ³	Workers	Local
	DNEL	Inhalation Short term	17 mg/m³	population Workers	Systemic
	DNEL	Inhalation Short term	15 mg/m³	General	Local
	DNEL	Inhalation Long term	8.4 mg/m³	population Workers	Systemic
	DNEL	Inhalation Short term	5 mg/m³	population General	Systemic
	DNEL	Inhalation Long term	5 mg/m³	population General	Local
nitroethane	DNEL	Inhalation Long term	m³ 2 mg/m³	General	Systemic
	DNEL	Inhalation Long term	m ³ 12.25 mg/	Workers	Systemic
	DNEL	Short term	12.25 mg/	Workers	Systemic
	DNEL	Long term Dermal	8.33 mg/ kg bw/day	Workers	Systemic

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 F69 TUK BLACK RAL 9004

S	SECTION 8: Exposure controls/personal protection						
			Inhalation		population		
		DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic	
		DNEL	Long term Dermal	83 mg/kg	General	Systemic	
		DNEL	Long term Dermal	bw/day 83 mg/kg bw/day	population Workers	Systemic	
	Amines, polyethylenepoly-, triethylenetetramine fraction	DNEL	Long term Dermal	0.25 mg/ kg bw/day	General population	Systemic	
		DNEL	Long term Inhalation	0.29 mg/m ³		Systemic	
		DNEL	Long term Oral	0.41 mg/ kg bw/day	General population	Systemic	
		DNEL	Long term Dermal	0.57 mg/ kg bw/day	Workers	Systemic	
		DNEL	Long term Inhalation	1 mg/m ³	Workers	Systemic	
		DNEL	Short term Dermal	8 mg/kg bw/day	General population	Systemic	
		DNEL	Short term Oral	20 mg/kg bw/day	General population	Systemic	
		DNEL	Short term Inhalation	1600 mg/ m³	General population	Systemic	
		DNEL	Short term Inhalation	5380 mg/ m³	Workers	Systemic	
	[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	DNEL	Long term Oral	12.5 mg/ kg bw/day	General population	Systemic	
	,	DNEL	Long term Dermal	12.5 mg/ kg bw/day	General population	Systemic	
		DNEL	Long term Dermal	21 mg/kg bw/day	Workers	Systemic	
		DNEL	Long term Inhalation	147 mg/m³	Workers	Systemic	

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
reaction product: bisphenol-A- (epichlorhydrin); epoxy resin (number average molecular weight ≤ 700)	Fresh water	3 µg/l	-
с с <i>,</i>	Marine water	0.3 µg/l	-
	Sewage Treatment Plant	10 mg/l	-
	Fresh water sediment	0.5 mg/kg dwt	-
	Marine water sediment	0.5 mg/kg dwt	-
	Sediment	0.05 mg/kg dwt	-
Terphenyl, hydrogenated	Fresh water	2 µg/l	Assessment Factors
	Marine water	0.2 µg/l	Assessment Factors
	Sewage Treatment Plant	10.3 mg/l	Assessment Factors
	Fresh water sediment	63.2 mg/kg dwt	Equilibrium Partitioning
	Marine water sediment	6.32 mg/kg dwt	Equilibrium Partitioning
	Soil	12.6 mg/kg dwt	Equilibrium Partitioning
	Secondary Poisoning	2.22 mg/kg	Assessment Factors

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, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Date of issue/Date of revision	: 19-10-2022	Version : 2	
Date of previous issue	: 2-10-2022	10/20	AkzoNobel

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. : Safety evewear complying with an approved standard should be used when a risk Eye/face protection assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles and/or face shield. If inhalation hazards exist, a full-face respirator may be required instead. Skin 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. When prolonged or frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time >480 minutes according to EN374) is recommended. Recommended gloves: Viton ® or Nitrile, thickness ≥ 0.38 mm. When only brief contact is expected, a glove with protection class of 2 or higher (breakthrough time >30 minutes according to EN374) is recommended. Recommended gloves: Nitrile, thickness ≥ 0.12 mm. Gloves should be replaced regularly and if there is any sign of damage to the glove material. The performance or effectiveness of the glove may be reduced by physical/ chemical damage and poor maintenance. The user must check that the final choice of type of glove selected for handling this product is the most appropriate and takes into account the particular conditions of use, as included in the user's risk assessment. : Personal protective equipment for the body should be selected based on the task **Body protection** being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. Refer to European Standard EN 1149 for further information on material and design requirements and test methods. 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. Based on the hazard and potential for exposure, select a respirator that meets the **Respiratory protection** 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.

SECTION 8: Exposure controls/personal protection

Environmental exposure : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. controls 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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>		
Physical state	Liquid.	
Color	Black.	
Odor	Characteristic.	
Odor threshold	Not available.	
рН	Not available.	
Melting point/freezing point	Not available.	
Initial boiling point and boiling range	Not available.	
Flash point	Closed cup: 25°C	
Evaporation rate	Not available.	
Flammability (solid, gas)	Not available.	
Upper/lower flammability or explosive limits	Not available.	
Vapor pressure	Not available.	
Vapor density	Highest known value: 7.95 (Air = 1) (Terphenyl, hydrogenated). Weighted average: 2.8 (Air = 1)	i
Density	1.28 g/cm ³	
Solubility(ies)	Insoluble in the following materials: cold water.	
Partition coefficient: n-octanol/ water	Not available.	
Auto-ignition temperature	Not available.	
Decomposition temperature	Not available.	
Viscosity	Kinematic (room temperature): 4.3 cm²/s Kinematic (40°C): 1.01 cm²/s	

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 pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition.
10.5 Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials
10.6 Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced.



SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
øutan-2-ol	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LC50 Inhalation Vapor	Rat	48500 mg/m ³	4 hours
	LD50 Intraperitoneal	Guinea pig	1067 mg/kg	-
	LD50 Intraperitoneal	Mouse	771 mg/kg	-
	LD50 Intraperitoneal	Rabbit	277 mg/kg	-
	LD50 Intraperitoneal	Rat	1193 mg/kg	-
	LD50 Intravenous	Mouse	764 mg/kg	-
	LD50 Intravenous	Rat	138 mg/kg	-
	LD50 Oral	Rabbit	4893 mg/kg	-
	LD50 Oral	Rabbit	4890 mg/kg	-
	LD50 Oral	Rat	2193 mg/kg	-
	LD50 Oral	Rat	2054 mg/kg	-
nitroethane	LD50 Intraperitoneal	Mouse	310 mg/kg	-
	LD50 Oral	Mouse	860 mg/kg	-
	LD50 Oral	Rat	1100 mg/kg	-
Terphenyl, hydrogenated	LD50 Oral	Mouse	12500 mg/kg	-
	LD50 Oral	Rat	17500 mg/kg	-
	LD50 Oral	Rat	>24000 mg/kg	-
	LD50 Oral	Rat	>10000 mg/kg	-
zinc oxide	LD50 Intraperitoneal	Rat	240 mg/kg	-
	LD50 Oral	Mouse	7950 mg/kg	-
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	LD50 Dermal	Rabbit	3970 uĽ/kg	-
	LD50 Oral	Rat	7.01 g/kg	-
	LD50 Oral	Rat	22600 uĽ/kg	-

Conclusion/Summary Irritation/Corrosion

Product/ingredient name Result **Species** Score Exposure Observation butan-2-ol Eyes - Severe irritant 0.1 MI Rabbit reaction product: bisphenol-Eyes - Mild irritant Rabbit _ 100 mg _ A-(epichlorhydrin); epoxy resin (number average molecular weight \leq 700) Skin - Moderate irritant Rabbit 24 hours 500 _ UI Skin - Severe irritant Rabbit 24 hours 2 _ mg 24 hours 500 Rabbit zinc oxide Eyes - Mild irritant _ mg Skin - Mild irritant Rabbit 24 hours 500 _ mg [3-(2,3-epoxypropoxy)propyl] Eyes - Mild irritant Rabbit 100 mg _ trimethoxysilane Rabbit Skin - Mild irritant 500 mg _ **Conclusion/Summary** : Not available.

Sensitization	
Conclusion/Summary	: Not available.
<u>Mutagenicity</u>	
Conclusion/Summary	: Not available.
Carcinogenicity	
Conclusion/Summary	: Not available.
Reproductive toxicity	



SECTION 11: Toxicological information

Conclusion/Summary : Not available.

Teratogenicity

Conclusion/Summary : Not available.

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
øutan-2-ol	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely	: Not available.
routes of exposure	

Potential acute health effects

Eye contact	: 🖸 auses serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: 🗭 auses severe burns. 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 watering redness
Inhalation	: Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations
Skin contact	 Adverse symptoms may include the following: pain or irritation redness blistering may occur reduced fetal weight increase in fetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced fetal weight increase in fetal deaths skeletal malformations

Delayed and immediate effects and also chronic effects from short and long term exposure

<u>Short term exposure</u>	
Potential immediate effects	: Not available.
Potential delayed effects	: Not available.
Long term exposure	



SECTION 11: Toxicological information		
Potential immediate effects	: Not available.	
Potential delayed effects	: Not available.	
Potential chronic health effe	ects	
Not available.		
Conclusion/Summary	: Not available.	
General	: Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels.	
Carcinogenicity	: No known significant effects or critical hazards.	
Mutagenicity	: Suspected of causing genetic defects.	
Reproductive toxicity	: May damage fertility or the unborn child.	

Other information

: Not available.

SECTION 12: Ecological information

12.1 Toxicity

There are no data available on the mixture itself. Do not allow to enter drains or watercourses.

The mixture has been assessed following the summation method of the CLP Regulation (EC) No 1272/2008 and is classified for eco-toxicological properties accordingly. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
øutan-2-ol	Acute EC50 4227 mg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Acute LC50 3670000 µg/l Fresh water	Fish - Pimephales promelas	96 hours
zinc oxide	Acute EC50 1 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 0.622 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 1.25 mg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 98 µg/l Fresh water	Daphnia - Daphnia magna - Neonate	48 hours
	Acute LC50 2246000 µg/l Fresh water	Fish - Pimephales promelas - Neonate	96 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
	Acute LC50 3.969 mg/l Fresh water	Fish - Danio rerio - Adult	96 hours
	Acute LC50 2.525 mg/l Fresh water	Fish - Danio rerio - Adult	96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

Conclusion/Summary : Not available.

12.3 Bioaccumulative potential



SECTION 12: Ecological information			
Product/ingredient name	LogPow	BCF	Potential
▶utan-2-ol	0.61	-	low
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	2.64 to 3.78	31	low
nitroethane	0.18	-	low
Terphenyl, hydrogenated	-	5200	high
zinc oxide	-	28960	high
Amines, polyethylenepoly-, triethylenetetramine fraction	-2.65	-	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
b utan-2-ol	No	N/A	N/A	No	N/A	N/A	N/A
reaction product: bisphenol- A-(epichlorhydrin); epoxy resin	No	N/A	No	No	No	N/A	No
nitroethane	No	N/A	N/A	No	N/A	N/A	N/A
Terphenyl, hydrogenated	No	N/A	Yes	No	SVHC (Candidate)	Specified	Specified
Amines, polyethylenepoly-, triethylenetetramine fraction	No	N/A	N/A	No	N/A	N/A	N/A
[3-(2,3-epoxypropoxy)propyl] trimethoxysilane	No	N/A	N/A	No	N/A	N/A	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

: The generation of waste should be avoided or minimized 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.
: The classification of the product may meet the criteria for a hazardous waste.
: Do not allow to enter drains or watercourses. Dispose of according to all federal, state and local applicable regulations. If this product is mixed with other wastes, the original waste product code may no longer apply and the appropriate code should be assigned. For further information, contact your local waste authority.

European waste catalogue (EWC)

The European Waste Catalogue classification of this product, when disposed of as waste, is:

Date of issue/Date of revision	: 19-10-2022	Version : 2	
Date of previous issue	: 2-10-2022	16/20	AkzoNobel

SECTION 13: Disposal considerations

•	
Waste code	Waste designation
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	 The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Disposal considerations	 Using information provided in this safety data sheet, advice should be obtained from the relevant waste authority on the classification of empty containers. Empty containers must be scrapped or reconditioned. Dispose of containers contaminated by the product in accordance with local or national legal provisions.
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. Vapor 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 spilled material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number	V N3469	V N3469	V N3469
14.2 UN proper shipping name	AINT, FLAMMABLE, CORROSIVE	AINT, FLAMMABLE, CORROSIVE	AINT, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)			B (8)
14.4 Packing group	111	111	111
14.5 Environmental hazards	Yes.	Marine Pollutant(s): reaction product: bisphenol-A- (epichlorhydrin); epoxy resin, 1,3-Propanediol, 2-ethyl-2- (hydroxymethyl)-, polymer with 2-(chloromethyl)oxirane	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. Tunnel code (D/E)
IMDG	: Emergency schedules F-E, S-C The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg.
ΙΑΤΑ	:
14.6 Special precautions for user	: 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

Date of issue/Date of revision	: 19-10-2022	Version : 2	
Date of previous issue	: 2-10-2022	17/20	AkzoNobel

the event of an accident or spillage.

SECTION 14: Transport information

14.7 Transport in bulk according to IMO instruments

: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture <u>EU Regulation (EC) No. 1907/2006 (REACH)</u>

Annex XIV - List of substances subject to authorization

<u>Annex XIV</u>

None of the components are listed.

Substances of very high concern

Ingredient name		Intrinsic property	Status	Reference number	Date of revision
F erphenyl, hydrogenated		vPvB	Candidate	ED/61/2018	6/27/2018
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Restricted	to professional users.			
Other EU regulations					
VOC		ons of Directive 2004/42/ el and/or technical data sl			Refer to the
VOC for Ready-for-Use Mixture	: Not applica	ble.			
Industrial emissions (integrated pollution prevention and control) - Air	: Not listed				
Industrial emissions (integrated pollution prevention and control) - Water	: Not listed				
Ozone depleting substance Not listed.	<u>es (1005/2009/</u>	<u>(EU)</u>			
Prior Informed Consent (Pl Not listed.	<u>IC) (649/2012/I</u>	<u>EU)</u>			
Seveso Directive					
This product is controlled une	der the Sevesc	Directive.			
Danger criteria					
Category					
P5c E2					
National regulations					
Industrial use	own asses: legislation.	ation contained in this safe sment of workplace risks, The provisions of the nation of this product at work.	as required by ot	her health and sa	fety

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Date of issue/Date of revision	: 19-10-2022	Version : 2	
Date of previous issue	: 2-10-2022	18/20	AkzoNobel

SECTION 15: Regulatory information

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.

Inventory list

Europe : Not determined.

15.2 Chemical Safety

: No Chemical Safety Assessment has been carried out.

Assessment

SECTION 16: Other information

Indicates information th	at has changed from previously issued version.
Abbreviations and acronyms	: ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DMEL = Derived Minimal Effect Level
	DNEL = Derived No Effect Level EUH statement = 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 according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classification	Justification
F íam. Liq. 3, H226	On basis of test data
Skin Corr. 1C, H314	Calculation method
Skin Sens. 1, H317	Calculation method
Muta. 2, H341	Calculation method
Repr. 1B, H360	Calculation method
Aquatic Chronic 2, H411	Calculation method

Full text of abbreviated H statements

 ▶ 226 +302 +312 +314 +315 +317 +318 +319 +332 +335 +336 +341 +360 +400 		Flammable liquid and vapor. Harmful if swallowed. Harmful in contact with skin. Causes severe skin burns and eye damage. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Causes serious eye irritation. Harmful if inhaled. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of causing genetic defects. May damage fertility or the unborn child. Very toxic to aquatic life.	
Date of issue/Date of revision	: 19-10-2022	Version : 2	AkzoNobel
Date of previous issue	: 2-10-2022	19/20	

	F69 TUK BLACK RAL 9004
SECTION 16: Othe	r information
H410	Very toxic to aquatic life with long lasting effects.
H411 H412	Toxic to aquatic life with long lasting effects. Harmful to aquatic life with long lasting effects.
Full text of classifications	
Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 3 Muta. 2 Repr. 1B Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1 SKin Sens. 1B STOT SE 3	ACUTE TOXICITY - Category 4 AQUATIC HAZARD (ACUTE) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 1 AQUATIC HAZARD (LONG-TERM) - Category 2 AQUATIC HAZARD (LONG-TERM) - Category 3 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 3 GERM CELL MUTAGENICITY - Category 2 TOXIC TO REPRODUCTION - Category 1B SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 1C SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITIZATION - Category 1 SKIN SENSITIZATION - CATEGORY 3
Date of printing	: 19 October 2022
Date of issue/ Date of revision	: 19 October 2022
Date of previous issue	: 2 October 2022
Version	: 2
Unique ID	:

Notice to reader

FOR PROFESSIONAL USE ONLY

IMPORTANT NOTE The information in this data sheet is not intended to be exhaustive and is based on the present state of our knowledge and on current laws: any person using the product for any purpose other than that specifically recommended in the technical data sheet without first obtaining written confirmation from us as to the suitability of the product for the intended purpose does so at his own risk. It is always the responsibility of the user to take all necessary steps to fulfill the demands set out in the local rules and legislation. Always read the Material Data Sheet and the Technical Data Sheet for this product if available. All advice we give or any statement made about the product by us (whether in this data sheet or otherwise) is correct to the best of our knowledge but we have no control over the quality or the condition of the substrate or the many factors affecting the use and application of the product. Therefore, unless we specifically agree in writing otherwise, we do not accept any liability whatsoever for the performance of the product or for any loss or damage arising out of the use of the product. All products supplied and technical advice given are subject to our standard terms and conditions of sale. You should request a copy of this document and review it carefully. The information contained in this data sheet is subject to modification from time to time in the light of experience and our policy of continuous development. It is the user's responsibility to verify that this data sheet is current prior to using the product.

Brand names mentioned in this data sheet are trademarks of or are licensed to Akzo Nobel.

