

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

SAFETY DATA SHEET

FR2-55 SEMI-GLOSS TUK WARM SILVER AIC 9.16

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

1.1	Product	identifier

Product name SDS code : FR2-55 SEMI-GLOSS TUK WARM SILVER AIC 9.16 : 55980916K

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

	Identified uses	
Paint. Professional use	e Industrial use	
	Uses advised against	
All other uses		
Draduatuaa	. Waterbarne coating for interior use	

Product use

: Waterborne 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

responsible for this SDS

1.4 Emergency telephone number

National advisory body/Poison Center

Telephone number	: (0551) 19240
<u>Supplier</u>	
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]

Flam. Liq. 3, H226 Skin Sens. 1, H317

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.

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

2.2 Label elements

Date of issue/Date of revision	: 21-10-2022	Version : 1.01	
Date of previous issue	: 30-9-2022	1/18	AkzoNobel

FR2-55 SEMI-GLOSS TUK WARM SILVER AIC 9.16			
SECTION 2: Hazards identification			
Hazard pictograms	:		
Signal word	:	Warning	
Hazard statements	:	Flammable liquid and vapor. May cause an allergic skin reaction.	
Precautionary statements			
Prevention	:	Wear protective gloves. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid breathing vapor.	
Response	:	Take off contaminated clothing and wash it before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention.	
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.	
Hazardous ingredients	:	 ▶ olyisocyanate, aliphatic 4-morpholinecarbaldehyde C(M)IT/MIT(3:1) 	
Supplemental label elements	:	Contains isocyanates. May produce an allergic reaction. Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	:	Not applicable.	
Special packaging requirem	en	<u>ts</u>	
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 does not contain any substances that are assessed to be a PBT or a vPvB.	
Other hazards which do not result in classification	:	None known.	

SECTION 3: Composition/information on ingredients

Product/ingredient name	Identifiers	%	Regulation (EC) No. 1272/2008 [CLP]	Туре
7,3,5-Triazine-2,4,6(1H,3H,5H)- trione, 1,3,5-tris(6-isocyanatohexyl) -, reaction products with polyethylene glycol monomethyl ether	CAS: 129217-88-5	≤9.5	Aquatic Chronic 3, H412	[1]
2-ethoxy-1-methylethyl acetate	EC: 259-370-9 CAS: 54839-24-6 Index: 603-177-00-8	≤10	Flam. Liq. 3, H226 STOT SE 3, H336	[1] [2]
Date of issue/Date of revision	21-10-2022	Version	: 1.01	
Date of previous issue	30-9-2022	2/18	Akzo	Nobel

SECTION 3: Composit	ion/information on i	ngredients		
Polyisocyanate, aliphatic	-	≤3	Skin Sens. 1, H317	[1]
2-butoxyethanol	REACH #:	<1	Acute Tox. 4, H302	[1] [2]
	01-2119475108-36		Acute Tox. 4, H312	
	EC: 203-905-0		Acute Tox. 4, H332	
	CAS: 111-76-2		Skin Irrit. 2, H315	
	Index: 603-014-00-0		Eye Irrit. 2, H319	
4-morpholinecarbaldehyde	CAS: 4394-85-8	<1	Skin Sens. 1, H317	[1]
4-isocyanatosulphonyltoluene	EC: 223-810-8	≤0.3	Skin Irrit. 2, H315	[1]
	CAS: 4083-64-1		Eye Irrit. 2, H319	
	Index: 615-012-00-7		Resp. Sens. 1, H334	
			STOT SE 3, H335	
			EUH014	
C(M)IT/MIT(3:1)	REACH #:	<0.0015	Acute Tox. 3, H301	[1]
	01-2120764691-48		Acute Tox. 2, H310	
	CAS: 55965-84-9		Acute Tox. 2, H330	
	Index: 613-167-00-5		Skin Corr. 1C, H314	
			Skin Sens. 1A, H317	
			Aquatic Acute 1, H400	
			(M=100)	
			Aquatic Chronic 1,	
			H410 (M=100)	
			EUH071	
			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.

Туре

- [1] Substance classified with a health or environmental hazard
- [2] Substance with a workplace exposure limit
- [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
- [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
- [5] Substance of equivalent concern
- [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	 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 if irritation occurs.
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
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.



SECTION 4: First aid measures Indestion : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. : No action shall be taken involving any personal risk or without suitable training. It **Protection of first-aiders** 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

4.2 Most important symptoms and effects, both acute and delayed

aloves.

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.

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

Repeated or prolonged contact with the mixture may cause removal of natural fat from the skin, resulting in nonallergic contact dermatitis and absorption through the skin. 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 isocyanate components and considering toxicological data on similar mixtures, this mixture may cause acute irritation and/or sensitization of the respiratory system, leading to an asthmatic condition, wheezing and tightness of the chest. Sensitized persons may subsequently show asthmatic symptoms when exposed to atmospheric concentrations well below the OEL. Repeated exposure may lead to permanent respiratory disability. Repeated or prolonged contact with irritants may cause dermatitis.

Contains Polyisocyanate, aliphatic, 4-morpholinecarbaldehyde, 4-isocyanatosulphonyltoluene, C(M)IT/MIT(3:1). May produce an allergic reaction.

Over-exposure signs/symptoms

Eye contact Inhalation	No specific data.No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness
Ingestion	: No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Treat symptomatically. Contact poison treatment specialist immediately if large
	quantities have been ingested or inhaled.

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 f	rom 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.
Hazardous combustion products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide 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. Avoid breathing 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).
6.3 Methods and materials fo	r 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

contractor.

appropriate waste disposal container. Dispose of via a licensed waste disposal



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 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. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. 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. 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

7.3 Specific end use(s)

: Not available.

Recommendations Industrial sector specific solutions

: Not available.



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
-ethoxy-1-methylethyl acetate	 DFG MAC-values list (Germany, 7/2019). Absorbed through skin. PEAK: 240 mg/m³, 4 times per shift, 15 minutes. PEAK: 40 ppm, 4 times per shift, 15 minutes. TWA: 120 mg/m³ 8 hours. TWA: 20 ppm 8 hours. TRGS 900 OEL (Germany, 3/2020). Absorbed through skin. PEAK: 240 mg/m³ 15 minutes. PEAK: 40 ppm 15 minutes. TWA: 120 mg/m³ 8 hours. TWA: 20 ppm 8 hours.
2-butoxyethanol	 TRGS 900 OEL (Germany, 3/2020). Absorbed through skin. TWA: 49 mg/m³ 8 hours. PEAK: 98 mg/m³ 15 minutes. TWA: 10 ppm 8 hours. PEAK: 20 ppm 15 minutes. DFG MAC-values list (Germany, 7/2019). Absorbed through skin. TWA: 10 ppm 8 hours. PEAK: 20 ppm, 4 times per shift, 15 minutes. TWA: 49 mg/m³ 8 hours. PEAK: 98 mg/m³, 4 times per shift, 15 minutes.
procedures atmosphe of the very protective the follow the asses limit value atmosphe of expose (Workpla for the m	duct contains ingredients with exposure limits, personal, workplace ere or biological monitoring may be required to determine the effectiveness ntilation or other control measures and/or the necessity to use respiratory e equipment. Reference should be made to monitoring standards, such as ving: European Standard EN 689 (Workplace atmospheres - Guidance for ssment of exposure by inhalation to chemical agents for comparison with es and measurement strategy) European Standard EN 14042 (Workplace eres - Guide for the application and use of procedures for the assessment ure to chemical and biological agents) European Standard EN 482 ce atmospheres - General requirements for the performance of procedures easurement of chemical agents) Reference to national guidance its for methods for the determination of hazardous substances will also be

DNELs/DMELs

Product/ingredient na	me Type	Exposure	Value	Population	Effects
-ethoxy-1-methylethyl aceta	ate DNEL	Long term Oral	13.1 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	62 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	103 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	181 mg/m ³	General population	Systemic
	DNEL	Long term Inhalation	302 mg/m ³	Workers	Systemic
	DNEL	Short term Inhalation	365 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	608 mg/m ³	Workers	Systemic
te of issue/Date of revision	: 21-10-2022		Version	: 1.01	
te of previous issue	: 30-9-2022		7/18		AkzoNobe

ECTION 8: Exposure co	-			Conorol	Systemia
2-butoxyethanol	DNEL	Long term Oral	6.3 mg/kg	General	Systemic
	DNEL	Short term Oral	bw/day	population General	Svetemie
	DINEL	Short term Oral	26.7 mg/ kg bw/day	population	Systemic
	DNEL	Long term	59 mg/m ³	General	Systemic
	DINEL	Inhalation	59 mg/m	population	Systemic
	DNEL	Long term Dermal	75 mg/kg	General	Systemic
	DIVEL	Long torm Dorma	bw/day	population	Cysternio
	DNEL	Short term Dermal	89 mg/kg	General	Systemic
			bw/day	population	-) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1
	DNEL	Short term Dermal	89 mg/kg	Workers	Systemic
			bw/day		5
	DNEL	Long term	98 mg/m³	Workers	Systemic
		Inhalation	-		
	DNEL	Long term Dermal	125 mg/kg bw/day	Workers	Systemic
	DNEL	Short term	147 mg/m ³	General	Local
		Inhalation		population	
	DNEL	Short term	246 mg/m ³	Workers	Local
		Inhalation	-		
	DNEL	Short term	426 mg/m ³	General	Systemic
		Inhalation		population	
	DNEL	Short term	1091 mg/	Workers	Systemic
		Inhalation	m³		
4-morpholinecarbaldehyde	DNEL	Long term Oral	8 mg/kg bw/day	General population	Systemic
	DNEL	Long term Dermal	8 mg/kg	General	Systemic
			bw/day	population	
	DNEL	Long term Dermal	14 mg/kg bw/day	Workers	Systemic
	DNEL	Long term	29 mg/m³	General	Systemic
		Inhalation		population	
	DNEL	Long term Inhalation	98 mg/m³	Workers	Systemic
4-isocyanatosulphonyltoluene	DNEL	Long term Oral	0.46 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Dermal	0.46 mg/ kg bw/day	General population	Systemic
	DNEL	Long term Inhalation	0.8 mg/m ³	General	Systemic
	DNEL	Long term Dermal	0.92 mg/ kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	3.24 mg/m ³	Workers	Systemic

PNECs

No PNECs available.

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.

Individual protection measures



SECTION 8: Exposure controls/personal protection

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: safety glasses with side-shields.
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 \geq 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 \geq 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.
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. 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.
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

9.1 Information on basic physical and chemical properties **Appearance Physical state** : Liquid. Color : Silver. Odor : Characteristic. : Not available. Odor threshold pН : Not available. Melting point/freezing point : Not available. Initial boiling point and : Not available. boiling range Flash point : Closed cup: 59°C Evaporation rate : Not available. Flammability (solid, gas) : Not available. Upper/lower flammability or : Not available. explosive limits Vapor pressure : Not available. Vapor density : Highest known value: >1 (Air = 1) (Oxirane, 2-methyl-, polymer with oxirane, monobutyl ether). Weighted average: 1.17 (Air = 1) Density : 1.179 g/cm³ Solubility(ies) : Insoluble in the following materials: cold water. Partition coefficient: n-octanol/ : Not available. water Auto-ignition temperature : Not available. **Decomposition temperature** : Not available. Viscosity : Kinematic (room temperature): 0.76 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
2-butoxyethanol	LC50 Inhalation Gas.	Mouse	700 ppm	7 hours
, , , , , , , , , , , , , , , , , , ,	LC50 Inhalation Gas.	Rat	450 ppm	4 hours
	LC50 Inhalation Vapor	Mouse	3380 mg/m ³	7 hours
	LC50 Inhalation Vapor	Rat	2900 mg/m ³	7 hours
	LD50 Dermal	Guinea pig	230 uL/kg	-
	LD50 Dermal	Rabbit	220 mg/kg	-
	LD50 Intraperitoneal	Mouse	536 mg/kg	-
	LD50 Intraperitoneal	Rabbit	220 mg/kg	-
	LD50 Intraperitoneal	Rat	220 mg/kg	-
	LD50 Intravenous	Mouse	1130 mg/kg	-
	LD50 Intravenous	Rabbit	252 mg/kg	-
	LD50 Intravenous	Rat	307 mg/kg	-
	LD50 Oral	Guinea pig	1200 mg/kg	-
	LD50 Oral	Mouse	1230 mg/kg	-
	LD50 Oral	Mouse	1167 mg/kg	-
	LD50 Oral	Rabbit	300 mg/kg	-
	LD50 Oral	Rabbit	320 mg/kg	-
	LD50 Oral	Rat	917 mg/kg	-
	LD50 Oral	Rat	250 mg/kg	-
	LD50 Route of exposure	Mouse	1050 mg/kg	-
	unreported		0.0	
	LD50 Route of exposure	Rat	917 mg/kg	-
	unreported		- 0° 0	
4-morpholinecarbaldehyde	LD50 Oral	Rat	6500 uL/kg	-
	LD50 Intraperitoneal	Rat	775 mg/kg	-
, , ,	LD50 Oral	Rat	2234 mg/kg	-

Conclusion/Summary

: Not available.

: 21-10-2022

:30-9-2022

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
2-butoxyethanol	Eyes - Moderate irritant	Rabbit	-	24 hours 100	-
				mg	
	Eyes - Severe irritant	Rabbit	-	100 mg	-
	Skin - Mild irritant	Rabbit	-	500 mg	-
4-morpholinecarbaldehyde	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
4 :	Europ Mandamata impitant	Dahbit		mg	
4-isocyanatosulphonyltoluene	Eyes - Moderate irritant	Rabbit	-	100 UI	-
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				UI	
Conclusion/Summary	: Not available.				
<u>Sensitization</u>					
Conclusion/Summary	: Not available.				
<u>Mutagenicity</u>					
Conclusion/Summary	: Not available.				
Carcinogenicity					
Conclusion/Summary	: Not available.				
Reproductive toxicity					
Conclusion/Summary	: Not available.				
Teratogenicity					
Conclusion/Summary	: Not available.				



SECTION 11: Toxicological information

Specific target organ toxicity (single exposure)

Product/ingredient name 2-ethoxy-1-methylethyl acetate 4-isocyanatosulphonyltoluene		nt name	Category	Route of exposure	Target organs Narcotic effects Respiratory tract irritation
			Category 3 Category 3	-	
Specific target organ toxicit	<u>ty (re</u>	<u>peated exposure)</u>			
Not available.					
Aspiration hazard					
Not available.					
nformation on the likely outes of exposure	: N	lot available.			
Potential acute health effects	<u>s</u>				
Eye contact	: N	lo known significant effe	cts or critical hazar	ds.	
Inhalation	: N	lo known significant effe	cts or critical hazar	ds.	
Skin contact	: N	lay cause an allergic ski	n reaction.		
Ingestion	: N	lo known significant effe	cts or critical hazar	ds.	
symptoms related to the phy	<u>/sical</u>	, chemical and toxicolo	ogical characteris	<u>tics</u>	
Eye contact	: N	lo specific data.			
Inhalation	: N	lo specific data.			
Skin contact	ir	dverse symptoms may i ritation edness	nclude the followin	g:	
Ingestion	: N	lo specific data.			
Delayed and immediate effect	rte an	d also chronic offects	from short and lo	na term exposur	0
<u>Short term exposure</u>	<u>515 un</u>				
	: N	lot available.			
Potential immediate effects	• •				
Potential immediate effects		lot available.			
Potential immediate effects Potential delayed effects		lot available.			
Potential immediate effects	: N	lot available. lot available.			
Potential immediate effects Potential delayed effects <u>Long term exposure</u> Potential immediate	: N : N				
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects	: N : N : N	lot available.			
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects	: N : N : N	lot available.			
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effects	: N : N : N	lot available.			
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effects Not available.	: N : N <u>ects</u> : N : C	lot available. lot available.	e allergic reaction n	nay occur when su	ubsequently exposed
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effects Not available. Conclusion/Summary	: N : N : N : N : N : C to	lot available. lot available. lot available. once sensitized, a severe	-	-	ubsequently exposed
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential chronic health effects Not available. Conclusion/Summary General	: N : N <u>ects</u> : N : C to : N	lot available. lot available. lot available. once sensitized, a severe o very low levels.	cts or critical hazar	ds.	ubsequently exposed
Potential immediate effects Potential delayed effects Long term exposure Potential immediate effects Potential delayed effects Potential delayed effects Potential chronic health effects Not available. Conclusion/Summary General Carcinogenicity	: N : N : N : N : C ta : N : N	lot available. lot available. lot available. Dince sensitized, a severe o very low levels. lo known significant effe	cts or critical hazar cts or critical hazar	ds. ds.	ubsequently expose



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 not classified as hazardous to the environment, but contains substance(s) hazardous to the environment. See section 3 for details.

Product/ingredient name	Result	Species	Exposure
₽-butoxyethanol	Acute LC50 800000 µg/l Marine water	Daphnia - Daphnia magna Crustaceans - Crangon crangon Fish - Lepomis macrochirus Fish - Menidia beryllina	48 hours 48 hours 96 hours 96 hours

Conclusion/Summary : Not available.

12.2 Persistence and degradability

: Not available. **Conclusion/Summary**

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
-ethoxy-1-methylethyl acetate	0.76	-	low
2-butoxyethanol 4-morpholinecarbaldehyde	0.81 -		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

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

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

<u>Product</u>	
Methods of disposal	: 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.
Hazardous waste	: The classification of the product may meet the criteria for a hazardous waste.



SECTION 13: Disposal considerations

Disposal considerations	 Do not allow to enter drains or watercourses. Residues in empty containers should be neutralized with a decontaminant (see section 6). 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:

Waste code	Waste designation
EWC 08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	<u>.</u>
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	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	111	111	
14.5 Environmental hazards	No.	No.	No.

Additional information

IMDG : <u>Emergency schedules</u> F-E, _S-E_

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 the event of an accident or spillage.

	FR2-55 SEMI-GLOSS TUK WARM SILVER AIC 9.16
SECTION 14: Transp	ort information
14.7 Transport in bulk according to IMO instruments	: Not applicable.
SECTION 15: Regula	tory information
15.1 Safety, health and envir	onmental regulations/legislation specific for the substance or mixture
EU Regulation (EC) No. 190	<u>7/2006 (REACH)</u>
<u> Annex XIV - List of substa</u>	nces subject to authorization
<u>Annex XIV</u>	
None of the components a	re listed.
Substances of very high	
None of the components a	
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Not applicable.
Other EU regulations	
VOC	The provisions of Directive 2004/42/EC on VOC apply to this product. Refer to the product label and/or technical data sheet for further information.
VOC for Ready-for-Use Mixture	: Not applicable.
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/EU)</u>
Prior Informed Consent (P Not listed.	<u>PIC) (649/2012/EU)</u>
<u>Seveso Directive</u> This product is controlled un <u>Danger criteria</u>	ider the Seveso Directive.
-	

Ca	ategory
P5	

National regulations

Industrial use

: The information contained in this safety data sheet does not constitute the user's own assessment of workplace risks, as required by other health and safety legislation. The provisions of the national health and safety at work regulations apply to the use of this product at work.



SECTION 15: Regulatory information

Product/ingredient name	List name	Name on list	Classification	Notes
-ethoxy-1-methylethyl acetate	DFG MAC-values list	1-Ethoxy-2-propyl acetate	Listed	-
2-butoxyethanol	DFG MAC-values list	2-Butoxyethanol; Ethylene glycol monobutyl ether	Listed	-

Storage class (TRGS 510) : 3

Hazardous incident ordinance

Hazard class for water	: 1
Technical instruction on air quality control	: ₱A-Luft Number 5.2.5: 9.3% TA-Luft Class III - Number 5.2.2: 0.1%
ΑΟΧ	: The product contains organically bound halogens and can contribute to the AOX value in waste water.

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemic	als:
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 Assessment : No Chemical Safety Assessment has been carried out.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and	: ATE = Acute Toxicity Estimate
acronyms	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
Flam. Liq. 3, H226	On basis of test data
Skin Sens. 1, H317	Calculation method

Date of issue/Date of revision	: 21-10-2022	Version : 1.01	
Date of previous issue	: 30-9-2022	16/18	AkzoNobe

SECTION 16: Other information

Full text of abbreviated H statements		
H 226	Flammable liquid and vapor.	
H301	Toxic if swallowed.	
H302	Harmful if swallowed.	
H310	Fatal in contact with skin.	
H312	Harmful in contact with skin.	
H314	Causes severe skin burns and eye damage.	
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.	
H335	May cause respiratory irritation.	
H336	May cause drowsiness or dizziness.	
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.	
EUH014	Reacts violently with water.	
EUH071	Corrosive to the respiratory tract.	

Full text of classifications [CLP/GHS]

Date of printing	• 31 October 2022
	Category 3
STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) -
Skin Sens. 1A	SKIN SENSITIZATION - Category 1A
Skin Sens. 1	SKIN SENSITIZATION - Category 1
Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
Skin Corr. 1C	SKIN CORROSION/IRRITATION - Category 1C
Resp. Sens. 1	RESPIRATORY SENSITIZATION - Category 1
Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
Eye Irrit. 2	SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2
Aquatic Chronic 3	AQUATIC HAZARD (LONG-TERM) - Category 3
Aquatic Chronic 1	AQUATIC HAZARD (LONG-TERM) - Category 1
Aquatic Acute 1	AQUATIC HAZARD (ACUTE) - Category 1
Acute Tox. 4	ACUTE TOXICITY - Category 4
Acute Tox. 3	ACUTE TOXICITY - Category 3
Acute Tox. 2	ACUTE TOXICITY - Category 2

Date of issue/ Date of revision: 21 October 2022Date of previous issue: 30 September 2022Version: 1.01	Date of printing	: 31 October 2022
Version : 1.01		: 21 October 2022
	Date of previous issue	: 30 September 2022
	Version	: 1.01
Unique ID :	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

Date of issue/Date of revision	: 21-10-2022	Version : 1.01	
Date of previous issue	: 30-9-2022	17/18	AkzoNobel

SECTION 16: Other information

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.

