SAFETY DATA SHEET

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

1.1 Product identifier	
Product name	: 39-0009-50 EP WEISS Z.FLUTEN, AIRLESS SPR. MV 5:1 MIT EP-HAR
Product code	: V0098
1.2 Relevant identified us	es of the substance or mixture and uses advised against
Material uses	: Paint or paint related material.
	: Industrial use only.
1.3 Details of the supplier sheet	of the safety data
Inver S.p.A. con Unico Soc Via di Corticella 205 - Bolog Phone: +39 051 6380411	
e-mail address of person responsible for this SDS	: minerbio.regulatory@sherwin.com
1.4 Emergency telephone	number
National advisory body/P	<u>oison Centre</u>
Telephone number	: 111 (general public) /0344 892 111 (Medical professional (NHS) only)
<u>Supplier</u>	
Telephone number	: +39 051 6606811
Hours of operation	: 08:30 - 17:30
SECTION 2: Hazards i	dantification
JECTION Z. HAZARUS I	

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 Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 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. See Section 11 for more detailed information on health effects and symptoms.

2.2 Label elements Hazard pictograms



Signal word

: Danger

SECTION 2: Hazards identification

Hazard statements	: Flammable liquid and vapour. Causes skin irritation.
	May cause an allergic skin reaction.
	Causes serious eye irritation.
	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Toxic to aquatic life with long lasting effects.
Precautionary statements	<u>></u>
Prevention	 Wear protective gloves. Wear 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 vapour.
Response	: Collect spillage. IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	 cyclohexanone 4,4'-methylenediphenyl diisocyanate o-(p-isocyanatobenzyl)phenyl isocyanate 2,2'-methylenediphenyl diisocyanate
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. FOR INDUSTRIAL USE ONLY
Special packaging require	ements
Not applicable.	
2.3 Other hazards	
	This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
	The substance/mixture does not contain components considered to have and arring

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

SECTION 3: Composition/information on ingredients

3.2 Mixture

3.2 Mixture	:	1	I	1	1	
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре	
Reaction Product: Bisphenol-A- (Epichlorhydrin) Epoxy Resin (Number Average Molecular Weight 700-1100)	CAS: 25036-25-3	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]	
Zinc Phosphate	EC: 231-944-3 CAS: 7779-90-0 Index: 030-011-00-6	≥10 - ≤24	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]	
1-Methoxy-2-propanol	EC: 203-539-1 CAS: 107-98-2 Index: 603-064-00-3	≤12	Flam. Liq. 3, H226 STOT SE 3, H336	-	[1] [2]	
Xylene, mixed isomers	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	<10	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 6700 ppm	[1] [2]	
Date of issue/Date of revision	: 27, Jan, 2024	Date of previ	ous issue : 27, Jan, 2024	Version : 9.01	2/32	
				SHW-A4-EU-CLP44-0	GB	

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II 39-0009-50 EP WEISS Z.FLUTEN, AIRLESS SPR. MV 5:1 MIT EP-HAR V0098

SECTION 3: Composition/information on ingredients

Diisocyanate01-2 EC: CAS Indezinc oxideREA 01-2 EC: CAS Diphenylmethane- 2,4-diisocyanateREA 01-2 EC: CAS IndeDiphenylmethane- 2,4-diisocyanateREA 01-2 EC: CAS IndeEthyl AcetateREA 01-2 EC:	2119463881-32 215-222-5 5: 1314-13-2 ex: 030-013-00-7 227-534-9 5: 5873-54-1 ex: 615-005-00-9	≤0.62 ≤0.3	Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336 EUH066	Skin Irrit. 2, H315: $C \ge 5\%$ Eye Irrit. 2, H319: $C \ge 5\%$ Resp. Sens. 1, H334: $C \ge 0.1\%$ STOT SE 3, H335: $C \ge 5\%$ M [Acute] = 1 M [Chronic] = 1 ATE [Inhalation (vapours)] = 11 mg/ I Skin Irrit. 2, H315: $C \ge 5\%$ Eye Irrit. 2, H315: $C \ge 5\%$ Resp. Sens. 1, H334: $C \ge 0.1\%$ STOT SE 3, H335: $C \ge 5\%$ -	[1]
Diisocyanate 01-2 EC: CAS Inde zinc oxide REA 01-2 EC: CAS Inde Diphenylmethane- 2,4-diisocyanate CAS	ACH #: 2119463881-32 215-222-5 5: 1314-13-2 ex: 030-013-00-7 227-534-9 5: 5873-54-1	≤0.62 ≤0.3	Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335	Skin Irrit. 2, H315: $C \ge 5\%$ Eye Irrit. 2, H319: $C \ge 5\%$ Resp. Sens. 1, H334: $C \ge 0.1\%$ STOT SE 3, H335: $C \ge 5\%$ M [Acute] = 1 M [Chronic] = 1 ATE [Inhalation (vapours)] = 11 mg/ I Skin Irrit. 2, H315: $C \ge 5\%$ Eye Irrit. 2, H319: $C \ge 5\%$ Resp. Sens. 1, H334: $C \ge 0.1\%$ STOT SE 3, H335:	
Diisocyanate 01-2 EC: CAS Inde zinc oxide REA 01-2 EC: CAS	ACH #: 2119463881-32 215-222-5 5: 1314-13-2	≤0.62	Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 Aquatic Acute 1, H400 Aquatic Chronic 1,	Skin Irrit. 2, H315: $C \ge 5\%$ Eye Irrit. 2, H319: $C \ge 5\%$ Resp. Sens. 1, H334: $C \ge 0.1\%$ STOT SE 3, H335: $C \ge 5\%$ M [Acute] = 1	[1]
Diisocyanate 01-2 EC: CAS			Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5% Resp. Sens. 1, H334: C ≥ 0.1%	
	ACH #: 2119457014-47 202-966-0	<1	Repr. 2, H361f Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319	ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
01-2 EC: CAS	ACH #: 2119486803-29 203-629-0 S: 108-91-8 ex: 612-050-00-6	<1	H412 Flam. Liq. 3, H226 Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Eye Dam. 1, H318	ATE [Oral] = 100 mg/kg ATE [Dermal] = 300 mg/kg	[1] [2]
01-2 EC: CAS	ACH #: 2119489370-35 202-849-4 S: 100-41-4 ex: 601-023-00-4		Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3,	ATE [Inhalation (vapours)] = 11 mg/ I	[1] [2]
01-2 EC: CAS	ACH #: 2119453616-35 203-631-1 5: 108-94-1 ex: 606-010-00-7	<3	H411 EUH066 Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318	ATE [Oral] = 1800 mg/kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 8000 ppm	[1] [2]
aromatics 01-2 EC:	ACH #: s 2119455851-35 918-668-5 S: 64742-95-6	≤7.7	STOT SE 3, H335 STOT RE 2, H373 Asp. Tox. 1, H304 Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2,	-	[1]

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II 39-0009-50 EP WEISS Z.FLUTEN, AIRLESS SPR. MV 5:1 MIT EP-HAR V0098

SECTION 3: Composition/information on ingredients

SECTION 3: Composit	lion/information or	n ingredier	Its		
Diphenylmethane Diisocyanate Polymer	Index: 607-022-00-5 CAS: 9016-87-9	≤0.3	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	ATE [Inhalation (gases)] = 4500 ppm	[1] [2]
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	REACH #: 01-2119486799-10 EC: 201-074-9 CAS: 77-99-6	≤0.3	Repr. 2, H361fd	-	[1]
Diphenylmethane- 2,2-diisocyanate	EC: 219-799-4 CAS: 2536-05-2 Index: 615-005-00-9	<0.1	Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373	ATE [Inhalation (vapours)] = 11 mg/ I Skin Irrit. 2, H315: $C \ge 5\%$ Eye Irrit. 2, H319: $C \ge 5\%$ Resp. Sens. 1, H334: $C \ge 0.1\%$ STOT SE 3, H335: $C \ge 5\%$	[1] [2]
			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>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

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

SECTION 4: First aid measures

4.1 Description of first aid measures

General	 In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and seek medical advice.
Eye contact	 Remove contact lenses, irrigate copiously with clean, fresh water, holding the eyelids apart for at least 10 minutes and seek immediate medical advice.
Inhalation	: Remove to fresh air. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel.
Skin contact	 Remove contaminated clothing and shoes. Wash skin thoroughly with soap and water or use recognised skin cleanser. Do NOT use solvents or thinners.
Ingestion	 If swallowed, seek medical advice immediately and show the container or label. Keep person warm and at rest. Do NOT induce vomiting.
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

SECTION 4: First aid measures

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour 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 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.

Contains Reaction Product: Bisphenol-A-(Epichlorhydrin) Epoxy Resin (Number Average Molecular Weight 700-1100), 4,4'-methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate, Diphenylmethane Diisocyanate Polymer. May produce an allergic reaction.

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.

See toxicological information (Section 11)

SECTION 5: Firefighting measures			
5.1 Extinguishing media Suitable extinguishing media	:	Recommended: alcohol-resistant foam, CO ₂ , powders, water spray or mist.	
Unsuitable extinguishing media	:	Do not use water jet.	
5.2 Special hazards arising fr	ron	n the substance or mixture	
Hazards from the substance or mixture	:	Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.	
Hazardous combustion products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.	
5.3 Advice for firefighters			
Special protective actions for fire-fighters	:	Cool closed containers exposed to fire with water. Do not release runoff from fire to drains or watercourses.	
Special protective equipment for fire-fighters	:	Fire-fighters should wear positive pressure self-contained breathing apparatus (SCBA) and full turnout gear.	
SECTION 6: Accidental r	el	ease measures	
6.1 Personal precautions, pro	ote	ctive equipment and emergency procedures	
For non-emergency personnel	:	Exclude sources of ignition and ventilate the area. Avoid breathing vapour or mist. Refer to protective measures listed in sections 7 and 8.	
		Keep unnecessary and unprotected personnel from entering.	
For emergency responders	:	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the	

information in "For non-emergency personnel".

 Date of issue/Date of revision
 : 27, Jan, 2024
 Date of previous issue
 : 27, Jan, 2024
 Version
 : 9.01

SECTION 6: Accidental release measures

6.2 Environmental precautions	: Do not allow to enter drains or watercourses. If the product contaminates lakes, rivers, or sewers, inform the appropriate authorities in accordance with local regulations.
6.3 Methods and material for containment and cleaning up	: 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 (see Section 13). Preferably clean with a detergent. Avoid using solvents.
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	:	Prevent the creation of flammable or explosive concentrations of vapours in air and avoid vapour concentrations higher than the occupational exposure limits. In addition, the product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Electrical equipment should be protected to the appropriate standard. Mixture may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear antistatic footwear and clothing and floors should be of the conducting type. Keep away from heat, sparks and flame. No sparking tools should be used. Avoid contact with skin and eyes. Avoid the inhalation of dust, particulates, spray or mist arising from the application of this mixture. Avoid inhalation of dust from sanding. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Put on appropriate personal protective equipment (see Section 8). Never use pressure to empty. Container is not a pressure vessel. Always keep in containers made from the same material as the original one. Comply with the health and safety at work laws. Do not allow to enter drains or watercourses. Information on fire and explosion protection Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.
7.2 Conditions for safe storage, including any incompatibilities	:	 Store in accordance with local regulations. Notes on joint storage Keep away from: oxidising agents, strong alkalis, strong acids. Additional information on storage conditions Observe label precautions. Store in a dry, cool and well-ventilated area. Keep away from heat and direct sunlight. Keep away from sources of ignition. No smoking. Prevent unauthorised access. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Contaminated absorbent material may pose the same hazard as the spilt product.
7.3 Specific end use(s)		
Recommendations	:	Not available.
Industrial sector specific solutions	:	Not available.

SECTION 7: Handling and storage

Good housekeeping standards, regular safe removal of waste materials and regular maintenance of spray booth filters will minimise the risks of spontaneous combustion and other fire hazards.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations.

SECTION 8: Exposure controls/personal protection

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

8.1 Control parameters

Occupational exposure limits

Product/ingredient name	Exposure limit values
1-Methoxy-2-propanol	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 560 mg/m ³ 15 minutes.
	STEL: 150 ppm 15 minutes.
	TWA: 375 mg/m ³ 8 hours.
	TWA: 100 ppm 8 hours.
Xylene, mixed isomers	EH40/2005 WELs (United Kingdom (UK), 1/2020). [xylene, o-,m-,
	p- or mixed isomers] Absorbed through skin.
	STEL: 441 mg/m ³ 15 minutes.
	TWA: 50 ppm 8 hours.
	TWA: 220 mg/m ³ 8 hours.
	STEL: 100 ppm 15 minutes.
Cyclohexanone	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 20 ppm 15 minutes.
	TWA: 10 ppm 8 hours.
	STEL: 82 mg/m ³ 15 minutes.
	TWA: 41 mg/m ³ 8 hours.
Ethylbenzene	EH40/2005 WELs (United Kingdom (UK), 1/2020). Absorbed
	through skin.
	STEL: 552 mg/m ³ 15 minutes.
	STEL: 125 ppm 15 minutes. TWA: 100 ppm 8 hours.
	TWA. 100 ppm 8 hours. TWA: 441 mg/m ³ 8 hours.
Cualabovanamina	-
Cyclohexanamine	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	TWA: 10 ppm 8 hours. TWA: 41 mg/m³ 8 hours.
4, 4'-Diphenylmethane Diisocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates,
	all, except methyl isocyanate as –NCO] Inhalation sensitiser.
	STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes.
	TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.
Diphenylmethane-2,4-diisocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates,
	all, except methyl isocyanate as –NCO] Inhalation sensitiser.
	STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes.
	TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.
Ethyl Acetate	EH40/2005 WELs (United Kingdom (UK), 1/2020).
	STEL: 400 ppm 15 minutes.
	TWA: 200 ppm 8 hours.
	STEL: 1468 mg/m ³ 15 minutes.
	TWA: 734 mg/m ³ 8 hours.
Diphenylmethane Diisocyanate Polymer	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates,
	all, except methyl isocyanate as –NCO] Inhalation sensitiser.
	STEL: 0.07 mg/m ³ , (as -NCO) 15 minutes.
	TWA: 0.02 mg/m ³ , (as -NCO) 8 hours.
Diphenylmethane-2,2-diisocyanate	EH40/2005 WELs (United Kingdom (UK), 1/2020). [isocyanates,
Date of issue/Date of revision : 27, Jan, 2024	Date of previous issue : 27, Jan, 2024 Version : 9.01 7/32
	Date of previous issue : 21, Jan, 2024 Version : 9.01 //32 SHW-A4-EU-CLP44-GB

all, except methyl isocyanate as –NCO] Inhalation sensitiser.
STEL: 0.07 mg/m³, (as -NCO) 15 minutes.
TWA: 0.02 mg/m³, (as -NCO) 8 hours.

Biological exposure indices

Product/ingredient name		Exposure indices		
xylene		EH40/2005 BMGVs (United Kingdom (UK), 8/2018) [Xylene, o-, m-, p- or mixed isomers] BGV: 650 mmol/mol creatinine, methyl hippuric acid [in urine]. Sampling time: post shift.		
cyclohexanone		EH40/2005 BMGVs (United Kingdom (UK), 8/2018) BGV: 2 mmol/mol creatinine, cyclohexanol [in urine]. Sampling time: post shift.		
procedures European Stan assessment of values and me atmospheres - of exposure to (Workplace atmospheres to (Workplace atmospheres) documents for required.		uld be made to monitoring standards, such as the following: dard EN 689 (Workplace atmospheres - Guidance for the exposure by inhalation to chemical agents for comparison with limit asurement strategy) European Standard EN 14042 (Workplace Guide for the application and use of procedures for the assessment chemical and biological agents) European Standard EN 482 nospheres - General requirements for the performance of procedures ement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also be		

: Regular monitoring of all work areas should be carried out at all times, including areas that may not be equally ventilated.

DNELs/DMELs

Product/ingredient name	Туре	Exposure	Value	Population	Effects
1-Methoxy-2-propanol	DNEL	Short term	553.5 mg/	Workers	Local
		Inhalation	m³		
	DNEL	Long term Inhalation	369 mg/m³	Workers	Systemic
	DNEL	Long term Dermal	183 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	43.9 mg/m ³	General population [Consumers]	Systemic
	DNEL	Long term Dermal	78 mg/kg bw/day	General population [Consumers]	Systemic
	DNEL	Long term Oral	33 mg/kg bw/day	General population [Consumers]	Systemic
Xylene, mixed isomers	DNEL	Long term Dermal	212 mg/m ³	Workers	Systemic
· · · · · · · · · · · · · · · · · · ·	DNEL	Long term Dermal	125 mg/kg	General population	Systemic
	DNEL	Long term Inhalation	221 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	289 mg/m³	Workers	Systemic
	DNEL	Short term Inhalation	442 mg/m³	Workers	Local
	DNEL	Long term	65.3 mg/m³	General population	Systemic
	DNEL	Short term Inhalation	260 mg/m³	General	Local
	DNEL	Short term Inhalation	174 mg/m³	General population	Systemic

	DNEL	Long term Oral	1.5 mg/kg	General	Systemic
Cyclohexanone	DNEL	Long term	10 mg/m³	population Workers	Systemic
	DNEL	Inhalation Long term	10 mg/m³	Workers	Local
	DNEL	Inhalation Short term	20 mg/m³	Workers	Systemic
	DNEL	Inhalation Short term	20 mg/m³	Workers	Local
	DNEL	Inhalation Long term Dermal	4 mg/kg	Workers	Systemic
	DNEL	Short term Dermal	bw/day 4 mg/kg	Workers	Systemic
	DNEL	Long term	bw/day 2.55 mg/m³	General	Systemic
	DNEL	Inhalation Short term	5 mg/m³	population General	Systemic
	DNEL	Inhalation Long term Dermal	1 mg/kg	population General	Systemic
	DNEL	Short term Dermal	bw/day 1 mg/kg bw/day	population General	Systemic
	DNEL	Long term Oral	bw/day 1.5 mg/kg bw/day	population General population	Systemic
	DNEL	Short term Oral	1.5 mg/kg	General	Systemic
inc oxide	DNEL	Long term Inhalation	5 mg/m³	Workers	Systemic
	DNEL	Long term Inhalation	0.5 mg/m³	Workers	Local
	DNEL	Long term Dermal	83 mg/kg bw/day	Workers	Systemic
	DNEL	Long term Inhalation	2.5 mg/m ³	General population	Systemic
	DNEL	Long term Dermal	83 mg/kg bw/day	General population	Systemic
	DNEL	Long term Oral	0.83 mg/ kg bw/day	General population	Systemic
thyl Acetate	DNEL	Long term Inhalation	730 mg/m³	Workers	Systemic
	DNEL DNEL	Long term Dermal Short term Inhalation	63 mg/kg 1468 mg/ m³	Workers Workers	Systemic Systemic
	DNEL	Long term Inhalation	734 mg/m ³	Workers	Local
	DNEL	Short term Inhalation	1468 mg/ m³	Workers	Local
	DNEL	Long term Inhalation	367 mg/m ³	General population	Systemic
	DNEL	Short term Inhalation	734 mg/m³	[Consumers] General population	Systemic
	DNEL	Long term Inhalation	367 mg/m³	[Consumers] General population [Consumers]	Local
	DNEL	Short term Inhalation	734 mg/m³	General population	Local
	DNEL	Long term Dermal	37 mg/kg bw/day	[Consumers] General population	Systemic

-	-	-			
	DNEL	-	4.5 mg/kg bw/day	[Consumers] General population [Consumers]	Systemic
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	DNEL	Long term Dermal	0.94 mg/kg		Systemic
		Long term Inhalation	3.3 mg/m³	Workers	Systemic

PNECs

Product/ingredient name	Compartment Detail	Value	Method Detail
1-Methoxy-2-propanol	Fresh water	10 mg/l	-
	Fresh water sediment	52.3 mg/kg	-
	Marine water sediment	5.2 mg/kg	-
	Soil	4.59 mg/kg	-
	Sewage Treatment Plant	100 mg/l	-
Cyclohexanone	Fresh water	0.356 mg/l	-
	Marine water	0.036 mg/l	-
	Fresh water sediment	2.69 mg/kg dwt	-
	Sewage Treatment Plant	10 mg/l	-
	Marine water sediment	0.269 mg/kg dwt	-
zinc oxide	Fresh water	0.0206 mg/l	-
	Marine water	0.0061 mg/l	-
	Sewage Treatment Plant	0.1 mg/l	-
	Fresh water sediment	117.8 mg/kg dwt	-
	Marine water sediment	56.5 mg/kg dwt	-
	Soil	35.6 mg/kg dwt	-
Ethyl Acetate	Sewage Treatment Plant	650 mg/l	-
	Fresh water	0.24 mg/l	-
	Fresh water sediment	1.15 mg/kg wwt	-
	Soil	0.148 mg/kg wwt	-
	Marine water	0.024 mg/l	-
	Marine water sediment	0.115 mg/kg wwt	-

8.2 Exposure controls

Appropriate engineering controls	 Provide adequate ventilation. Where reasonably practicable, this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain concentrations of particulates and solvent vapours below the OEL, suitable respiratory protection must be worn. Users are advised to consider national Occupational Exposure Limits or other
	equivalent values.
Individual protection meas	ures
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	: Use safety eyewear designed to protect against splash of liquids.
Skin protection	
Hand protection	: Wear suitable gloves tested to EN374.
Gloves	:

	Gloves for term exposure/splash protection (less than 10 min):Nitrile>0.12 mm Gloves for splash protection need to be changed immediately when in contact with chemicals. Gloves for repeated or prolonged exposure (breakthrough time > 240 min.) When the hazardous ingredients in Section 3 contain any of the following: Aromatic solvents (Xylene, Toluene) or Aliphatic solvents or Mineral Oil use: Polyvinyl alcohol (PVA) gloves 0.2-0.3 mm Otherwise use: Butyl gloves >0.3 mm For long term exposure or spills (breakthrough time >480 min.): Use PE laminated gloves as under gloves Due to many conditions (e.g. temperature, abrasion) the practical usage of a chemical protective glove in practice may be much shorter than the permeation time determined through testing. The recommendation for the type or types of glove to usewhen handling this product is based on information from the following source: Solvent resin manufacturers and European Solvents Industry Group (ESIG).
	 There is no one glove material or combination of materials that will give unlimited resistance to any individual or combination of chemicals. The breakthrough time must be greater than the end use time of the product. The instructions and information provided by the glove manufacturer on use, storage, maintenance and replacement must be followed. Gloves should be replaced regularly and if there is any sign of damage to the glove material. Always ensure that gloves are free from defects and that they are stored and used correctly. The performance or effectiveness of the glove may be reduced by physical/chemical damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred. 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	 Personnel should wear antistatic clothing made of natural fibres or of high- temperature-resistant synthetic fibres.
	: 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	: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.
Environmental exposure controls	: Do not allow to enter drains or watercourses.

Before use of this material please refer to the Exposure Scenario(s) if attached for the specific end use, control measures and additional PPE considerations. 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 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>	
Physical state	Liquid.
Colour	White.
Odour	Solvent.
Odour threshold	Not Available (Not Tested).
pН	Not relevant/applicable due to nature of the product. insoluble in water.
Melting point/freezing point	Not relevant/applicable due to nature of the product.
Initial boiling point and boiling range	120°C
Flash point	Closed cup: 31°C [Pensky-Martens Closed Cup]
Evaporation rate	0.8 (butyl acetate = 1)
Flammability	Flammable liquid.
Lower and upper explosion limit	LEL: 0.7% (Light Aromatic Hydrocarbons) UEL: 13.74% (1-Methoxy-2-propanol)
Vapour pressure	1.5 kPa (10.9 mm Hg)
Relative vapour density	3.1 [Air = 1]
Relative density	1.58
Solubility(ies)	
Media	Result
cold water	Not soluble

Partition coefficient: n-octanol/ : Not relevant/applicable due to nature of the product. *water*

2

Auto-ignition temperature

Ingredient name		°C	°F	Method
1-Methoxy-2-propanol Cyclohexanone		286 420	546.8 788	
Decomposition temperature	: Not rel	evant/applica	able due to nature o	of the product.
Viscosity	: Kinematic (40°C): >20.5 mm²/s			
Explosive properties	: Under	normal cond	litions of storage ar	d use, hazardous reactions will not occu
Oxidising properties	: Under	normal cond	litions of storage ar	d use, hazardous reactions will not occu
Particle characteristics				
Median particle size	: Not rel	evant/applica	able due to nature o	of the product.
2 Other information				
Heat of combustion	: 9.05 k	J/g		

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	: Stable under recommended storage and handling conditions (see Section 7).				
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.				

SECTION 10: Stability and reactivity

10.4 Conditions to avoid	:	When exposed to high temperatures may produce hazardous decomposition products.
10.5 Incompatible materials	:	Keep away from the following materials to prevent strong exothermic reactions: oxidising agents, strong alkalis, strong acids.
10.6 Hazardous decomposition products	:	Decomposition products may include the following materials: carbon monoxide, carbon dioxide, smoke, oxides of nitrogen.

Refer to Section 7: HANDLING AND STORAGE and Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION for additional handling information and protection of employees.

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

There are no data available on the mixture itself. Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Exposure to component solvent vapour 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 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.

Contains Reaction Product: Bisphenol-A-(Epichlorhydrin) Epoxy Resin (Number Average Molecular Weight 700-1100), 4,4'-methylenediphenyl diisocyanate, o-(p-isocyanatobenzyl)phenyl isocyanate, Diphenylmethane Diisocyanate Polymer. May produce an allergic reaction.

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure			
1-Methoxy-2-propanol	LD50 Dermal	Rabbit	13 g/kg	-			
	LD50 Oral	Rat	6600 mg/kg	-			
Xylene, mixed isomers	LC50 Inhalation Gas.	Rat	6700 ppm	4 hours			
	LD50 Oral	Rat	4300 mg/kg	-			
Hydrocarbons, C9, aromatics	LD50 Oral	Rat	8400 mg/kg	-			
Cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours			
	LD50 Oral	Rat	1800 mg/kg	-			
Ethylbenzene	LD50 Dermal	Rabbit	>5000 mg/kg	-			
	LD50 Oral	Rat	3500 mg/kg	-			
Cyclohexanamine	LD50 Oral	Rat	11 mg/kg	-			
4, 4'-Diphenylmethane Diisocyanate	LD50 Oral	Rat	9200 mg/kg	-			
Ethyl Acetate	LD50 Oral	Rat	5620 mg/kg	-			
Diphenylmethane	LC50 Inhalation Vapour	Rat	490 mg/m³	4 hours			
Date of issue/Date of revision : 27, Jan, 2024 Date of previous issue : 27, Jan, 2024 Version : 9.01 13/32							

SECTION 11: Toxicological information

<u> </u>				
Diisocyanate Polymer				
	LD50 Dermal	Rabbit	>9400 mg/kg	-
	LD50 Oral	Rat	49 g/kg	-
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	LD50 Oral	Rat	14000 mg/kg	-

Acute toxicity estimates

Route	ATE value
Oral	13677.81 mg/kg
Dermal	9417.4 mg/kg
Inhalation (gases)	73470.87 ppm
Inhalation (vapours)	885.81 mg/l

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
1-Methoxy-2-propanol	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
	-			mg	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Xylene, mixed isomers	Eyes - Mild irritant	Rabbit	-	87 mg	-
•	Eyes - Severe irritant	Rabbit	-	24 hours 5	-
				mg	
	Skin - Mild irritant	Rat	-	8 hours 60 uL	-
	Skin - Moderate irritant	Rabbit	-	100 %	-
	Skin - Moderate irritant	Rabbit	-	24 hours 500	-
				mg	
Hydrocarbons, C9, aromatics	Eyes - Mild irritant	Rabbit	-	24 hours 100	-
-	-			uL	
Cyclohexanone	Eyes - Severe irritant	Rabbit	-	20 mg	-
	Eyes - Severe irritant	Rabbit	-	24 hours 250	-
	-			ug	
	Skin - Mild irritant	Human	-	48 hours 50	-
				%	
	Skin - Mild irritant	Rabbit	-	500 mg	-
Ethylbenzene	Eyes - Severe irritant	Rabbit	-	500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 15	-
				mg	
Cyclohexanamine	Eyes - Severe irritant	Rabbit	-	5 minutes	-
				100 uL	
	Eyes - Severe irritant	Rabbit	-	24 hours 50	-
				ug	
	Skin - Severe irritant	Human	-	48 hours 125	-
				mg	
	Skin - Severe irritant	Rabbit	-	24 hours 2	-
				mg	
	Skin - Severe irritant	Rabbit	-	500 uL	-
4, 4'-Diphenylmethane	Eyes - Moderate irritant	Rabbit	-	100 mg	-
Diisocyanate					
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
	Skin - Mild irritant	Rabbit	-	24 hours 500	-
				mg	
Diphenylmethane	Eyes - Mild irritant	Rabbit	-	100 mg	-
Diisocyanate Polymer					

<u>Sensitisation</u>

No data available

SECTION 11: Toxicological information

Conclusion/Summary

Mutagenicity

: Not available.

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Teratogenicity

No data available

Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
1-Methoxy-2-propanol	Category 3	-	Narcotic effects
Xylene, mixed isomers	Category 3	-	Respiratory tract irritation
Hydrocarbons, C9, aromatics	Category 3	-	Respiratory tract irritation
	Category 3		Narcotic effects
4, 4'-Diphenylmethane Diisocyanate	Category 3	-	Respiratory tract irritation
Diphenylmethane-2,4-diisocyanate	Category 3	-	Respiratory tract irritation
Ethyl Acetate	Category 3	-	Narcotic effects
Diphenylmethane Diisocyanate Polymer	Category 3	-	Respiratory tract irritation
Diphenylmethane-2,2-diisocyanate	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Xylene, mixed isomers	Category 2	-	-
Ethylbenzene	Category 2	-	hearing organs
4, 4'-Diphenylmethane Diisocyanate	Category 2	-	-
Diphenylmethane-2,4-diisocyanate	Category 2	-	-
Diphenylmethane Diisocyanate Polymer	Category 2	-	-
Diphenylmethane-2,2-diisocyanate	Category 2	-	-

Aspiration hazard

Product/ingredient name	Result
Xylene, mixed isomers	ASPIRATION HAZARD - Category 1
Hydrocarbons, C9, aromatics	ASPIRATION HAZARD - Category 1
Ethylbenzene	ASPIRATION HAZARD - Category 1

11.2 Information on other hazards

11.2.1 Endocrine disrupting properties

Not available.

11.2.2 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.

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]. See Sections 2 and 3 for details.

Product/ingredient name	Result	Species	Exposure
Zinc Phosphate	Acute LC50 90 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Xylene, mixed isomers	Acute LC50 8500 µg/l Marine water	Crustaceans - <i>Palaemonetes</i> pugio	48 hours
	Acute LC50 13400 µg/l Fresh water	Fish - Pimephales promelas	96 hours
Cyclohexanone	Acute EC50 32.9 mg/l	Algae - <i>Chlamydomonas</i> <i>reinhardtii</i> - Exponential growth phase	72 hours
	Acute LC50 527000 µg/l Fresh water	Fish - <i>Pimephales promelas</i>	96 hours
	Chronic EC10 3.56 mg/l	Algae - Chlamydomonas	72 hours
		<i>reinhardtii</i> - Exponential growth	72 110013
Ethylbenzene	Acute EC50 4900 µg/l Marine water	Algae - Skeletonema costatum	72 hours
2	Acute EC50 7700 µg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute EC50 6.53 mg/l Marine water	Crustaceans - <i>Artemia sp.</i> - Nauplii	48 hours
	Acute EC50 2.93 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 4200 µg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
Cyclohexanamine	Acute LC50 44 mg/l Fresh water	Fish - Oncorhynchus mykiss	96 hours
zinc oxide	Acute IC50 1.85 mg/l Marine water	Algae - Skeletonema costatum	96 hours
	Acute LC50 98 μg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Acute LC50 1.1 ppm Fresh water	Fish - Oncorhynchus mykiss	96 hours
Ethyl Acetate	Acute EC50 2500000 µg/l Fresh water	Algae - Selenastrum sp.	96 hours
	Acute LC50 750000 µg/l Fresh water	Crustaceans - Gammarus pulex	48 hours
	Acute LC50 154000 µg/l Fresh water	Daphnia - Daphnia cucullata	48 hours
	Acute LC50 212500 µg/l Fresh water	Fish - Heteropneustes fossilis	96 hours
	Chronic NOEC 2.4 mg/l Fresh water	Daphnia - <i>Daphnia magna</i>	21 days
	Chronic NOEC 75.6 mg/l Fresh water	Fish - <i>Pimephales promelas</i> - Embryo	32 days
2-Ethyl-2-(hydroxymethyl) -1,3-propanediol	Acute EC50 13000000 µg/l Fresh water		48 hours
· · ·	Acute LC50 14400000 μg/l Marine water	Fish - Cyprinodon variegatus	96 hours

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose		Inoculum
No data available						
Conclusion/Summary	: Not available.					
Product/ingredient name	Aquatic half-life		Photolysis		Biodeg	radability
Xylene, mixed isomers Ethylbenzene Ethyl Acetate	- - -		- -		Readily Readily Readily	

12.3 Bioaccumulative potential

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II 39-0009-50 EP WEISS Z.FLUTEN, AIRLESS SPR. MV 5:1 MIT EP-HAR V0098

SECTION 12: Ecological information

Product/ingredient name	LogPow	BCF	Potential	
Zinc Phosphate	-	60960	High	
Xylene, mixed isomers	-	8.1 to 25.9	Low	
Hydrocarbons, C9, aromatics	-	10 to 2500	High	
Cyclohexanamine	-	3.162	Low	
4, 4'-Diphenylmethane	-	200	Low	
Diisocyanate				
zinc oxide	-	28960	High	
Diphenylmethane-	-	200	Low	
2,4-diisocyanate				
Ethyl Acetate	-	30	Low	
2-Ethyl-2-(hydroxymethyl)	-	<1	Low	
-1,3-propanediol				
Diphenylmethane-	-	200	Low	
2,2-diisocyanate				

Soil/water partition coefficient (K _{oc})	: 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 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

13.1 Waste treatment metho	ds
<u>Product</u>	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.
European waste catalogue (EWC)	 waste paint and varnish containing organic solvents or other hazardous substances 08 01 11*
Disposal considerations	 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.
Packaging Methods of disposal	 The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

Date of issue/Date of revision	: 27, Jan, 2024	Date of previous issue	: 27, Jan, 2024	Version : 9.01	17/32
				SHW-A4-EU-CLP44-GB	

SECTION 13: Disposal considerations

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.
European waste catalogue (EWC)	 packaging containing residues of or contaminated by hazardous substances 15 01 10*
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapour from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

	ADR/RID	IMDG	ΙΑΤΑ
14.1 UN number or ID number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT. Marine pollutant (Zinc Phosphate, Light Aromatic Hydrocarbons)	PAINT
14.3 Transport Hazard Class(es)/ Label(s)			3
14.4 Packing group		111	111
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Additional information	The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg. Tunnel code D/E	The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency schedules</u> F-E, S-E	The environmentally hazardous substance mark may appear if required by other transportation regulations.

user

14.6 Special precautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Maritime transport in : Not applicable. bulk according to IMO

instruments

Multi-modal shipping descriptions are provided for informational purposes and do not consider container sizes. The presence of a shipping description for a particular mode of transport (sea, air, etc.), does not indicate that the product is packaged suitably for that mode of transport. All packaging must be reviewed for suitability prior to shipment, and compliance with the applicable regulations is the sole responsibility of the person offering the product for transport. People loading and unloading dangerous goods must be trained on all of the risks deriving from the substances and on all actions in case of emergency situations.

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 authorisation

Annex XIV

None of the components are listed.

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

Product/ingredient name	%	Designation [Usage]
39-0009-50 EP WEISS Z.FLUTEN, AIRLESS SPR. MV 5:1 MIT EP-HAR	≥90	3
4,4'-methylenediphenyl diisocyanate	<1	56 [Consumer products] 74
o-(p-isocyanatobenzyl)phenyl isocyanate	≤0.3	56 [Consumer products] 74
2,2'-methylenediphenyl diisocyanate	<0.1	56 [Consumer products] 74
toluene	≤0.1	48
benzene	<0.1	5 72

Labelling

: As from August 24 2023 adequate training is required before industrial or professional use.

Training advice www.safeusediisocyanates.eu.

Other EU regulations

VOC content	(2010/75/EU)	:	28.6	w/w
			451	g/l

Explosive precursors	: Not applicable.
Seveso Directive	

This product may add to the calculation for determining whether a site is within the scope of the Seveso Directive on major accident hazards.

National regulations

Product/ingredient name	List name	Name on list	Classification	Notes
	UK Occupational Exposure Limits EH40 - WEL	benzene; benzol	Carc.	-

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 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 PBT = Persistent, Bioaccumulative and Toxic PNEC = Predicted No Effect Concentration RRN = REACH Registration Number vPvB = Very Persistent and Very Bioaccumulative N/A = Not available 		

Date of issue/Date of revision	: 27, Jan, 2024	Date of previous issue	: 27, Jan, 2024	Version : 9.01	19/32
				SHW-A4-EU-CLP44-GB	

SECTION 16: Other information

Key literature references	: Regulation (EC) No. 1272/2008 [CLP]
and sources for data	ADR = The European Agreement concerning the International Carriage of
	Dangerous Goods by Road
	IATA = International Air Transport Association
	IMDG = International Maritime Dangerous Goods
	Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by
	Commission Regulation (EU) 2020/878
	Directive 2012/18/EU, and relative amendments & additions
	Directive 2008/98/EC, and relative amendments & additions
	Directive 2009/161/EU, and relative amendments & additions
	CEPE Guidelines

Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Classif	ication	Justification
Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Aquatic Chronic 2, H411		On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method
Full text of abbreviated H statements	: H225 H226 H301 H302 H304 H311 H312 H314 H315 H317 H318 H319 H332 H334 H335 H336 H351 H361f H361ff H361fd H373 H400 H410 H411 H412	 Highly flammable liquid and vapour. Flammable liquid and vapour. Toxic if swallowed. May be fatal if swallowed and enters airways. Toxic in contact with skin. 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 damage. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause drowsiness or dizziness. Suspected of causing cancer. Suspected of damaging fertility. Suspected of damaging fertility. Suspected of damaging fertility. Suspected of damaging fertility. Suspected of admaging fertility. Admaging fertility. Admaging fertility. <l< th=""></l<>
Full text of classifications [CLP/GHS]	EUH066 : Acute Tox. 3 Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic Aquatic Chronic	Category 1 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2

SECTION 16: Other information

	Asp. Tox. 1	ASPIRATION HAZARD - Category 1
	Carc. 2	CARCINOGENICITY - Category 2
	Eye Dam. 1	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1
	Eye Irrit. 2	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2
	Flam. Liq. 2	FLAMMABLE LIQUIDS - Category 2
	Flam. Liq. 3	FLAMMABLE LIQUIDS - Category 3
	Repr. 2	REPRODUCTIVE TOXICITY - Category 2
	Resp. Sens. 1	RESPIRATORY SENSITISATION - Category 1
	Skin Corr. 1B	SKIN CORROSION/IRRITATION - Category 1B
	Skin Irrit. 2	SKIN CORROSION/IRRITATION - Category 2
	Skin Sens. 1	SKIN SENSITISATION - Category 1
	STOT RE 2	SPECIFIC TARGET ORGAN TOXICITY - REPEATED
		EXPOSURE - Category 2
	STOT SE 3	SPECIFIC TARGET ORGAN TOXICITY - SINGLE
		EXPOSURE - Category 3
Date of printing	: 27, Jan, 2024.	
Date of issue/ Date of revision	: 27, Jan, 2024	
Date of previous issue	: 27, Jan, 2024	
	: If there is no previous information.	validation date please contact your supplier for more
Version	: 9.01	
Notico to reador		

Notice to reader

In accordance with Regulation (EC) 1907/2006, REACH Regulation, Articles 31, 37, any required hazard-related information on the use of substances received as downstream user will be sent forward. Consequently, the safety data sheets for some products will contain a SUMI - Safe Use of Mixture Information - attached to the safety data sheet.

SUMI(s) will be added to the SDS for products if both the following conditions are met:

• The product is classified as hazardous for health

• The product contains one or more REACH-registered substances for which extended safety data sheets (exposure scenarios) have been provided

It is recommended that each customer or recipient of this Safety Data Sheet (SDS) study it carefully and consult resources, as necessary or appropriate, to become make themselves aware of and understand the data contained in this SDS and any hazards that may be associated with the product. This information is provided in good faith and believed to be accurate as of the effective date mentioned herein. However, no warranty, express or implied, is given. The information presented here applies only to the product as shipped. The addition of any material can may change later the composition, hazards and risks of the product. Products shall should not be repackaged, modified, or tinted except as specifically instructed by the manufacturer, including but not limited to, the incorporation of products not specified by the manufacturer, or the use or addition of products in proportions not specified by the manufacturer. Regulatory requirements are subject to change and may differ between various locations and jurisdictions. The customer/buyer/user is responsible to ensure that his activities comply with all country, federal, state, provincial or local laws. The conditions for the use of the product are not under the manufacturer's control of the manufacturer; the customer/buyer/user is responsible to for determine determining the conditions necessary for the safe use of this product. The customer/buyer/user should not use the product for any purpose other than the purpose shown in the applicable section of this SDS, without first referring to the supplier and obtaining written handling instructions. Due to the proliferation of sources for information such as manufacturer-specific SDS, the manufacturer cannot be held responsible for SDSs obtained from any other source.

SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, no booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

General description of the process covered

Paint application on industrial line with no enclosure (only local exhaust ventilation)

Operational conditions

Place of use : Indoor use

Risk management measures (RMM)

Contributing activity	Process category	Maximum	Ventilation		
	(ies)	duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05		More than 4 hours Enhanced (mechanical) room 5 ventilation		
Loading of application equipment and handling of coated parts before curing	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory Eye		Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Wear a respirator conforming to EN140 with an assigned protection factor of at least 10.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying, stoving and other technologies	PROC04	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste management	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

Date of issue/Date of revision : ***

: No previous validation Version

1

:

39-0009-50 EP WEISS Z.FLUTEN, AIRLESS SPR. MV 5:1 MIT EP-HAR

See chapter 8 of this Safety Data Sheet for specifications.



Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

SUMI Safe Use of Mixtures Information for end-users

Title : Industrial application of coatings and inks by other than spraying-Local exhaust ventilation This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidised bed or curtain coating (local exhaust ventilation only)

Operational conditions

Place of use

: Indoor use

Risk management measures (RMM)

Contributing activity	Process category (ies)	Maximum	Ventilation		
		duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	More than 4 hours Enhanced (mechanical) room sentilation		
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	More than 4 hours Local exhaust ventilation F		
Film formation - force drying, stoving and other technologies	PROC04	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	bre than 4 hours Enhanced (mechanical) room ventilation		
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
	PROC05 PROC08b	None			
application Loading of application equipment and handling of			according to EN 166. Use eye protection	tested to EN374. Wear suitable gloves	
application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by other than spraying Film formation - force drying,	PROC08b	None	according to EN 166. Use eye protection according to EN 166. Use eye protection	tested to EN374. Wear suitable gloves tested to EN374. Wear suitable gloves	
application Loading of application equipment and handling of coated parts before curing Industrial application of coatings and inks by other	PROC08b PROC10, PROC13	None None	according to EN 166. Use eye protection according to EN 166. Use eye protection according to EN 166.	tested to EN374. Wear suitable gloves tested to EN374. Wear suitable gloves tested to EN374.	

:

See chapter 8 of this Safety Data Sheet for specifications.



Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

General description of the process covered

Paint application on industrial line with fully-enclosed spraying

Operational conditions

Place of use : Indoor use

Risk management measures (RMM)

Contributing activity	Process category (ies)	Maximum duration	Ventilation		
			Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Full containment/extraction	100 or equivalent	
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	None	None	None	
Film formation - force drying, stoving and other technologies	PROC02	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
	PROC05	None	Use eye protection	Wear suitable gloves	

39-0009-50 EP WEISS Z.FLUTEN, AIRLESS SPR. MV 5:1 MIT EP-HAR		Industrial spray painting, enclosed		
 Waste management	PROC08b	None	, ,	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

SUMI Safe Use of Mixtures Information for end-users

: Industrial application of coatings and inks by other than spraying-Enclosed

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

General description of the process covered

Paint application on industrial line by brush, roller, dipping, spreading, coil, fluidised bed or curtain coating (enclosed application)

Operational conditions

Place of use

Title

: Indoor use

Risk management measures (RMM)

Contributing activity	Process category (ies)	Maximum	Ventilation		
		duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC02	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05	More than 4 hours	Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b	More than 4 hours Enhanced (mechanical) room ventilation		5 - 10	
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by other than spraying	PROC10, PROC13	None	None	None	
Film formation - force drying, stoving and other technologies	PROC02	None	None	None	
Cleaning	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

39-0009-50 EP WEISS Z.FLUTEN, AIRLESS SPR. MV 5:1 MIT EP-HAR			Industrial application of coatings and inks by other than spraying-Enclosed		
Application equipment cleaning outside booth	PROC05	None		Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.
Waste management	PROC08b	None		Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.

See chapter 8 of this Safety Data Sheet for specifications.



Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.

SUMI Safe Use of Mixtures Information for end-users

Title : Industrial spray painting, walk-in booth

This document is intended to communicate the conditions of safe use for the product and should always be read in combination with the product's Safety Data Sheet, Technical Data sheet and labels.

General description of the process covered

Paint application on industrial line with walk-in spray booth

Operational conditions

Place of use : Indoor use

Risk management measures (RMM)

Contributing activity	Process category (ies)	Maximum	Ventilation		
		duration	Туре	ach (air changes per hour)	
Preparation of material for application	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Loading of application equipment and handling of coated parts before curing	PROC08b		Enhanced (mechanical) room ventilation	5 - 10	
Industrial application of coatings and inks by spraying	PROC07	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Film formation - force drying, stoving and other technologies	PROC04		Enhanced (mechanical) room ventilation	5 - 10	
Cleaning	PROC05	More than 4 hours	Local exhaust ventilation	Refer to relevant technical standards	
Application equipment cleaning outside booth	PROC05		Enhanced (mechanical) room ventilation	5 - 10	
Waste management	PROC08b		More than 4 hours Enhanced (mechanical) room ventilation		
Contributing activity	Process category (ies)	Respiratory	Eye	Hands	
Preparation of material for application	PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Loading of application equipment and handling of coated parts before curing	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Industrial application of coatings and inks by spraying	PROC07	Compressed-air breathing apparatus to EN 14594 with an assigned protection factor of at least 20.	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Film formation - force drying,	PROC04	None	None	None	
stoving and other technologies					

	39-0009-50 EP WEISS Z.FLUTEN, AIRLESS SPR. MV 5:1 MIT EP-HAR			Industrial spray painting, walk-in booth		
Application cleaning ou		PROC05	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	
Waste man	agement	PROC08b	None	Use eye protection according to EN 166.	Wear suitable gloves tested to EN374.	

See chapter 8 of this Safety Data Sheet for specifications.



Disclaimer

The information in this Safe Use of Mixture Information sheet is based on the data provided by the substance supplier for the substances in the product for which a chemical safety assessment has been carried out at the time of issue. It does not guarantee safe use of the product and does not replace any occupational risk assessment required by legislation. When developing workplace instructions for employees, SUMI sheets should always be considered in combination with the SDS and the label of the product.

No liability is accepted for any damage, no matter of what kind, which is direct or indirect consequence of acts and/or decisions (partly) based on the contents of this document.