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

SAFETY DATA SHEET

United Arab Emirates

Date of issue/Date of revision

undertaking

: 9 October 2024

Version

: 2.01

1.1 Product identifier	
Product name	: SIGMAZINC 105 BASE
Product code	: 00445088
Other means of identification	on
Not available.	
1.2 Relevant identified uses	of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: Coating.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	the safety data sheet
Sigma Paint Saudi Arabia Ltd PO Box 7509	
Dammam 31472	
Saudi Arabia	
Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: ndpic@sfda.gov.sa
1.4 Emergency telephone number	: 00966 138473100 extn 1001

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. 2, H225

 Skin Irrit. 2, H315

 Eye Irrit. 2, H319

 Skin Sens. 1, H317

 Carc. 2, H351

Aquatic Acute 1, H400 Aquatic Chronic 1, H410 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.



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

Code	: 00445088	Date of issue/Date of revision	: 9 October 2024
SIGMAZIN	C 105 BASE		

SECTION 2: Hazards identification

Signal word : Danger Hazard statements : Highly flammable liquid and vapour. Causes an allergic skin reaction. Causes estinus reguination. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects. Precautionary statements Prevention : Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Response : Collect spillage. Storage : Not applicable. Dispose of contents and container in accordance with all local, regional, national and intermanional regulations. P202, P280, P210, P273, P391, P501 Supplemental label elements : Contains epoxy constituents. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements Containers to be fitted with child-resistant fastenings : Not applicable. Z3 Other hazards : This mixture does not contain any substances that are assessed to be a PBT or a vPVB. Gr PBT or vPVB Other hazards which do or result in classification : Prolonged or repeated contact may dry skin and cause irritation.		
Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer. Very toxic to aquatic life with long lasting effects. Precautionary statements Prevention : Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Response : Collect spillage. Storage : Not applicable. Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P210, P273, P391, P501 Supplemental label : Contains epoxy constituents. May produce an allergic reaction. Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted : Not applicable. Containers to be fitted : Not applicable. Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Signal word	: Danger
Prevention : Do not handle until all safety precautions have been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment. Response : Collect spillage. Storage : Not applicable. Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P210, P273, P391, P501 Supplemental label elements : Contains epoxy constituents. May produce an allergic reaction. Annex XVII - Restrictions on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containsers to be fitted with club effitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. Product meets the criteria for PBT or xPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB.		Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Suspected of causing cancer.
Response : Collect spillage. Storage : Not applicable. Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P210, P273, P391, P501 Supplemental label elements : Contains epoxy constituents. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements Containers to be fitted with child-resistant fastenings : Not applicable. 2.3 Other hazards : Not applicable. Product meets the criteria or PBT or vPvB : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Precautionary statements	
Storage : Not applicable. Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P210, P273, P391, P501 Supplemental label elements : Contains epoxy constituents. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. 2.3 Other hazards : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Prevention	protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid
Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations. P202, P280, P210, P273, P391, P501 Supplemental label elements : Contains epoxy constituents. May produce an allergic reaction. Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles : Not applicable. Special packaging requirements : Not applicable. Containers to be fitted with child-resistant fastenings : Not applicable. Tactile warning of danger : Not applicable. 2.3 Other hazards : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Response	: Collect spillage.
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elements Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Special packaging requirements Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria for PBT or vPvB Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	Disposal	international regulations.
on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles <u>Special packaging requirements</u> Containers to be fitted : Not applicable. with child-resistant fastenings Tactile warning of danger : Not applicable. 2.3 Other hazards Product meets the criteria : This mixture does not contain any substances that are assessed to be a PBT or a vPvB. for PBT or vPvB Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.		: Contains epoxy constituents. May produce an allergic reaction.
Containers to be fitted with child-resistant fastenings Tactile warning of danger: Not applicable.Z.3 Other hazards Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. : Prolonged or repeated contact may dry skin and cause irritation.	on the manufacture, placing on the market and use of certain dangerous substances, mixtures and	: Not applicable.
with child-resistant fastenings Tactile warning of danger: Not applicable.2.3 Other hazards Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB. : Prolonged or repeated contact may dry skin and cause irritation.	Special packaging requirem	<u>ients</u>
 2.3 Other hazards Product meets the criteria for PBT or vPvB Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation. 	with child-resistant	: Not applicable.
Product meets the criteria for PBT or vPvB: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.Other hazards which do: Prolonged or repeated contact may dry skin and cause irritation.	Tactile warning of danger	: Not applicable.
for PBT or vPvB Other hazards which do : Prolonged or repeated contact may dry skin and cause irritation.	2.3 Other hazards	
		: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
		: Prolonged or repeated contact may dry skin and cause irritation.

SECTION 3: Composition/information on ingredients

3.2 Mixtures	: Mixture				
Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
		Englis	sh (GB) United Ar	ab Emirates	2/17

Code : 00445088		Da	ate of issue/Date of revisi	on : 9 October	2024
SIGMAZINC 105 BASE					
SECTION 3: Comp	osition/informat	tion on i	ngredients		
Żínc powder zinc dust (stabilised)	REACH #: 01-2119467174-37 EC: 231-175-3 CAS: 7440-66-6 Index: 030-001-01-9	≥25 - ≤50	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
4-methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥10 - <20	Flam. Liq. 2, H225 Acute Tox. 4, H332 Eye Irrit. 2, H319 Carc. 2, H351 STOT SE 3, H336 EUH066	ATE [Inhalation (vapours)] = 11 mg/l EUH066: C ≥ 20%	[1] [2]
Epoxy Resin (700 <mw <=1100)</mw 	CAS: 25036-25-3	≥5.0 - ≤10	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	-	[1]
ethylbenzene	REACH #: 01-2119489370-35 EC: 202-849-4 CAS: 100-41-4 Index: 601-023-00-4	≥1.0 - ≤5.0	Flam. Liq. 2, H225 Acute Tox. 4, H332 STOT RE 2, H373 (hearing organs) Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Inhalation (vapours)] = 17.8 mg/l	[1] [2]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335 Asp. Tox. 1, H304 Aquatic Chronic 3, H412	ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l	[1] [2]
Cement, portland, chemicals	EC: 266-043-4 CAS: 65997-15-1	≥1.0 - <3.0	Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 STOT SE 3, H335	-	[1] [2]
bis-[4-(2,3-epoxipropoxi) phenyl]propane	REACH #: 01-2119456619-26 EC: 216-823-5 CAS: 1675-54-3 Index: 603-073-00-2	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	Skin Irrit. 2, H315: C ≥ 5% Eye Irrit. 2, H319: C ≥ 5%	[1]
zinc oxide	REACH #: 01-2119463881-32 EC: 215-222-5 CAS: 1314-13-2 Index: 030-013-00-7	≥1.0 - ≤5.0	Aquatic Acute 1, H400 Aquatic Chronic 1, H410	M [Acute] = 1 M [Chronic] = 1	[1]
			See Section 16 for the full text of the H statements declared above.		

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs, vPvBs or Substances of equivalent concern, or have been assigned a workplace exposure limit and hence require reporting in this section.

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

English (GB) l

Code : 00445088

Date of issue/Date of revision

: 9 October 2024

SIGMAZINC 105 BASE

SECTION 3: Composition/information on ingredients

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

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. 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

The moot important of mp	
Potential acute health et	ffects
Eye contact	: Causes serious eye irritation.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes skin irritation. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: No known significant effects or critical hazards.
Over-exposure signs/sy	mptoms
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness
Inhalation	: No specific data.
Skin contact	: Adverse symptoms may include the following: irritation redness dryness cracking
Ingestion	: No specific data.
4.3 Indication of any imm	ediate 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	: Use dry chemical, CO ₂ , water spray (fog) or foam.
media Unsuitable extinguishing	: Do not use water jet.
media	

5.2 Special hazards arising from the substance or mixture

English (GB)	United Arab Emirates
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Code :	00445088	Date of issue/Date of revision	: 9 October 2024
SIGMAZINC 10	5 BASE		

SECTION 5: Firefighting measures

Hazards from the substance or mixture	 Highly flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may bur with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain. 		
Hazardous combustion products	: Decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds metal oxide/oxides		
5.3 Advice for firefighters			
Special precautions 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, prot	ective equipment and emergency procedures			
For non-emergency personnel	: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.			
For emergency responders	: If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".			
6.2 Environmental precautions	: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.			
6.3 Methods and material for containment and cleaning up				

Small spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	: Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.
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.

Code : 00445088 SIGMAZINC 105 BASE Date of issue/Date of revision

: 9 October 2024

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store between the following temperatures: 0 to 35°C (32 to 95°F). Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidising materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

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			
₩ -methylpentan-2-one	Ministry of Labor TWA 8 hours: 20 TWA 8 hours: 83 STEL 15 minutes STEL 15 minutes	mg/m³. : 208 mg/m³.	
ethylbenzene	Ministry of Labor TWA 8 hours: 20 TWA 8 hours: 88 STEL 15 minutes STEL 15 minutes	.4 mg/m³. : 442 mg/m³.	h skin.
xylene	Ministry of Labor purs] Absorbed th STEL 15 minutes	8	res mixtes,
	English (GB)	United Arab Emirates	6/17

Code	: 00445088	Date of issue/Date of revision	: 9 October 2024
SIGMAZINC	105 BASE		

STEL 15 minutes: 100 ppm. TWA 8 hours: 221 mg/m³. TWA 8 hours: 50 ppm.

Product/ingredient name	Exposure limit values
▶ arium sulfate	Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) TWA 8 hours: 10 mg/m ³ . Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 10 mg/m ³ . ACGIH TLV (United States, 7/2023) TWA 8 hours: 5 mg/m ³ . Form: Inhalable fraction.
4-methylpentan-2-one	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A3. TWA 8 hours: 82 mg/m³. TWA 8 hours: 20 ppm. STEL 15 minutes: 307 mg/m³. STEL 15 minutes: 75 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) STEL 15 minutes: 75 ppm. TWA 8 hours: 205 mg/m³. STEL 15 minutes: 307 mg/m³. TEL 15 minutes: 307 mg/m³. TWA 8 hours: 205 mg/m³. STEL 15 minutes: 50 ppm.
	ACGIH TLV (United States, 7/2023) A3. TWA 8 hours: 20 ppm. STEL 15 minutes: 75 ppm.
ethylbenzene	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) A3. STEL 15 minutes: 543 mg/m³. STEL 15 minutes: 125 ppm. TWA 8 hours: 100 ppm. TWA 8 hours: 434 mg/m³. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) STEL 15 minutes: 125 ppm. TWA 8 hours: 434 mg/m³. STEL 15 minutes: 543 mg/m³. STEL 15 minutes: 543 mg/m³. TWA 8 hours: 100 ppm. ACGIH TLV (United States, 7/2023) A3. Ototoxicant. TWA 8 hours: 20 ppm.
xylene	 Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) [xylene (o, m & p isomers)] A4. STEL 15 minutes: 651 mg/m³. STEL 15 minutes: 150 ppm. TWA 8 hours: 434 mg/m³. TWA 8 hours: 100 ppm. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) [xylene (all isomers)] STEL 15 minutes: 150 ppm. TWA 8 hours: 434 mg/m³. STEL 15 minutes: 651 mg/m³. TWA 8 hours: 400 ppm. ACGIH TLV (United States, 7/2023) [p-xylene and mixtures containing p-xylene] A4. Ototoxicant. TWA 8 hours: 20 ppm
	TWA 8 hours: 20 ppm.

	Code : 00445088 SIGMAZINC 105 BASE	Date of issue/Date of revision	: 9 October 2024
-	Cement, portland, chemicals	Abu Dhabi - OSHAD - Occupational air qu values (United Arab Emirates, 7/2016) A4.	-

zinc oxide		 values (United Arab Emirates, 7/2016) A4. TWA 8 hours: 1 mg/m³. Form: measured as respirable fraction of the aerosol. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 10 mg/m³. ACGIH TLV (United States, 7/2023) A4. TWA 8 hours: 1 mg/m³. Form: Respirable fraction. Abu Dhabi - OSHAD - Occupational air quality threshold limit values (United Arab Emirates, 7/2016) STEL 15 minutes: 10 mg/m³. Form: measured as respirable fraction of the aerosol and fume. TWA 8 hours: 2 mg/m³. Form: measured as respirable fraction of the aerosol and fume. Cabinet Decree (12) of 2006 Regarding Regulation Concerning Protection of Air from Pollution (United Arab Emirates, 5/2006) TWA 8 hours: 5 mg/m³. Form: fumes. STEL 15 minutes: 10 mg/m³. Form: fumes. STEL 15 minutes: 10 mg/m³. Form: fumes.
✓-methylpentan-2-one		DOL BEI (South Africa, 3/2021) BEI: 1 mg/l, methyl isobutyl ketone [in urine]. Sampling time: end of shift.
ethylbenzene		DOL BEI (South Africa, 3/2021) BEI: 0.15 g/g creatinine, sum of mandelic acid and phenylglyoxylic acid [in urine]. Sampling time: end of shift.
xylene		DOL BEI (South Africa, 3/2021) [xylenes] BEI: 1.5 g/g creatinine, methylhippuric acid [in urine]. Sampling time: end of shift.
Recommended monitoring : procedures	Standard EN 689 by inhalation to c strategy) Europe application and u biological agents requirements for agents) Referen	d be made to monitoring standards, such as the following: European O (Workplace atmospheres - Guidance for the assessment of exposure hemical agents for comparison with limit values and measurement ean Standard EN 14042 (Workplace atmospheres - Guide for the use of procedures for the assessment of exposure to chemical and O European Standard EN 482 (Workplace atmospheres - General the performance of procedures for the measurement of chemical ce to national guidance documents for methods for the determination ostances will also be required.
8.2 Exposure controls		
controls	other engineering recommended of vapour or dust co ventilation equipr	equate ventilation. Use process enclosures, local exhaust ventilation or g controls to keep worker exposure to airborne contaminants below any r statutory limits. The engineering controls also need to keep gas, oncentrations below any lower explosive limits. Use explosion-proof ment.
Individual protection measures	-	
Hygiene measures :	eating, smoking a Appropriate tech Contaminated we contaminated clo	earms and face thoroughly after handling chemical products, before and using the lavatory and at the end of the working period. niques should be used to remove potentially contaminated clothing. ork clothing should not be allowed out of the workplace. Wash othing before reusing. Ensure that eyewash stations and safety se to the workstation location.

 English (GB)	United Arab Emirates	8/17

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878					
Code : 00445088	Date of issue/Date of revision: 9 October 2024				
SIGMAZINC 105 BASE					
Eye/face protection	: Chemical splash goggles.				
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 greater than 480 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 2 or higher (breakthrough time greater than 30 minutes according to EN 374) is recommended. 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.				
Gloves	: butyl rubber				
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	:				
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.				

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties

<u>Appearance</u>					
Physical state	: Liquid.	: Liquid.			
Colour	: Grey.				
Odour	: Characteristic.				
Odour threshold	: Not available.				
Melting point/freezing point	: Not determined.				
Initial boiling point and boiling range	: >37.78°C				
Flammability	: Not determined. There	are no data availa	ble on the mix	ture itself.	
Upper/lower flammability or explosive limits	: Not available.				
Flash point	: Closed cup: 21°C				
Auto-ignition temperature	: Ingredient name	°C	°F	Method	
	xylene	432	809.6		
Decomposition temperature pH	: Stable under recomme : Not applicable. insolubl	•	handling condi	tions (see Section 7).	

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

Code : 00445088	Date of issue/Date of revision	: 9 October 2024
SIGMAZINC 105 BASE		

SECTION 9: Physical and chemical properties

Viscosity	:	Øynamic (room temperature): Not available. Kinematic (room temperature): Not available. Kinematic (40°C): >21 mm²/s						
Solubility(ies)	:							
Media		Result						
cold water		Not soluble						
Partition coefficient: n-octa water	anol/ :	Not applicable.						
Vapour pressure	:	: Ingredient name	Vapor	Vapour Pressure at 20°C		Vapour pressure at 50°C		
			mm Hg	kPa	Method	mm Hg	kPa	Method
		✓ methylpentan-2-one	15.75128	2.1				
Relative density	:	1.97		I		1	-+	
Explosive properties	:	The product itself is vapour or dust with a			the formation	of an exp	olosible m	nixture of
Oxidising properties	:	Product does not pre	esent an o	xidizing	hazard.			
Particle characteristics								
Median particle size		Not applicable.						

9.2 Other information

No additional information.

SECTION 10: Stabilit	y 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	: When exposed to high temperatures may produce hazardous decomposition products. Refer to protective measures listed in sections 7 and 8.
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	: Depending on conditions, decomposition products may include the following materials: carbon oxides sulfur oxides halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects
<u>Acute toxicity</u>

Code : 00445088

SIGMAZINC 105 BASE

Date of issue/Date of revision :

: 9 October 2024

SECTION 11: Toxicological information

Product/ingredient name	Result	Species	Dose	Exposure
zinc powder zinc dust (stabilised)	LC50 Inhalation Dusts and	Rat	>5.4 mg/l	4 hours
	mists			
	LD50 Oral	Rat	>2000 mg/kg	-
4-methylpentan-2-one	LC50 Inhalation Vapour	Rat	11 mg/l	4 hours
	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	2.08 g/kg	-
Epoxy Resin (700 <mw<=1100)< td=""><td>LD50 Dermal</td><td>Rat</td><td>>2000 mg/kg</td><td>-</td></mw<=1100)<>	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>2000 mg/kg	-
ethylbenzene	LC50 Inhalation Vapour	Rat	17.8 mg/l	4 hours
	LD50 Dermal	Rabbit	17.8 g/kg	-
	LD50 Oral	Rat	3.5 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	LD50 Dermal	Rabbit	23000 mg/kg	-
	LD50 Oral	Rat	15000 mg/kg	-
zinc oxide	LC50 Inhalation Dusts and	Rat	>5700 mg/m ³	4 hours
	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-

Conclusion/Summary

: There are no data available on the mixture itself.

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
x ylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Eyes - Mild irritant	Rabbit	-	24 hours	-
	Eyes - Redness of the	Rabbit	0.4	24 hours	-
	conjunctivae				
	Skin - Oedema	Rabbit	0.5	4 hours	-
	Skin - Erythema/Eschar	Rabbit	0.8	4 hours	-
	Skin - Mild irritant	Rabbit	-	4 hours	-

Conclusion/Summary

: There are no data available on the mixture itself.

Respiratory

Skin

Eyes

: There are no data available on the mixture itself.

Sensitisation

Route of exposure	Species	Result
kin	Mouse	Sensitising
k	exposure	exposure

Conclusion/Summary	
Skin	: There are no data available on the mixture itself.
Respiratory	: There are no data available on the mixture itself.
<u>Mutagenicity</u>	
Conclusion/Summary	: There are no data available on the mixture itself.
Carcinogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Reproductive toxicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Teratogenicity	
Conclusion/Summary	: There are no data available on the mixture itself.
Specific target organ toxi	<u>city (single exposure)</u>

English (GB) United Arab Emirates

Code	: 00445088	Date of issue/Date of revision	: 9 October 2024
SIGMAZINC	105 BASE		

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
4-methylpentan-2-one	Category 3	-	Narcotic effects
xylene	Category 3	-	Respiratory tract irritation
Cement, portland, chemicals	Category 3	-	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
ethylbenzene	Category 2	-	hearing organs

Aspiration hazard

Product/i	ngredient name	Result	
ethylbenzene xylene		ASPIRATION HAZARD - Category 1 ASPIRATION HAZARD - Category 1	
Information on likely	: Not available.		
routes of exposure	· Not available.		
Potential acute health effect	<u>is</u>		
Inhalation	No known significant effects or crit	ical hazards.	
Ingestion	: No known significant effects or crit	ical hazards.	
Skin contact	: Causes skin irritation. Defatting to	the skin. May cause an allergic skin reaction.	
Eye contact	: Causes serious eye irritation.		
Symptoms related to the ph	ysical, chemical and toxicological c	haracteristics	
Inhalation	: No specific data.		
Ingestion	: No specific data.		
Skin contact	: Adverse symptoms may include th irritation redness dryness cracking	e following:	
Eye contact	: Adverse symptoms may include th pain or irritation watering redness	e following:	
Delayed and immediate effe	cts as well as chronic effects from s	<u>short and long-term exposure</u>	
<u>Short term exposure</u>			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Long term exposure			
Potential immediate effects	: Not available.		
Potential delayed effects	: Not available.		
Potential chronic health effe	ects		
Not available.			
Conclusion/Summary	: Not available.		
General		n defat the skin and lead to irritation, cracking an rere allergic reaction may occur when subsequer	
	Franksk (OD)	United Arch Emirates 42	/47

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Date of issue/Date of revision	: 9 October 2024		
1			
	Date of issue/Date of revision		

Carcinogenicity	Suspected of causing cancer. Risk of cancer depends on duration and level exposure.	of
Mutagenicity	No known significant effects or critical hazards.	
Reproductive toxicity	No known significant effects or critical hazards.	
Other information	Not available.	

Prolonged or repeated contact may dry skin and cause irritation. Sanding and grinding dusts may be harmful if inhaled. Repeated exposure to high vapor concentrations may cause irritation of the respiratory system and permanent brain and nervous system damage. Inhalation of vapour/aerosol concentrations above the recommended exposure limits causes headaches, drowsiness and nausea and may lead to unconsciousness or death. Avoid contact with skin and clothing.

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

Product/ingredient name	Result	Species	Exposure
zínc powder zinc dust (stabilised)	Acute EC50 0.106 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	72 hours
	Acute EC50 354 µg/l Fresh water	Daphnia - Daphnia magna	48 hours
	Chronic EC10 6.3 µg/l	Daphnia - <i>Daphnia</i> <i>magna</i> - Neonate	21 days
	Chronic LC10 185 μg/l Fresh water	Fish - Oncorhynchus mykiss - Juvenile (Fledgling, Hatchling, Weanling)	30 days
4-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
ethylbenzene	Acute EC50 1.8 mg/l Fresh water	Daphnia	48 hours
	Chronic NOEC 1 mg/l Fresh water	Daphnia - Ceriodaphnia dubia	-
bis-[4-(2,3-epoxipropoxi)phenyl]propane	Acute LC50 1.8 mg/l Fresh water	Daphnia - <i>daphnia</i> <i>magna</i>	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
zinc oxide	Acute EC50 0.17 mg/l	Algae	72 hours
	Acute EC50 0.481 mg/l Fresh water	Daphnia - <i>Daphnia magna</i> - Neonate	48 hours
	Chronic NOEC 0.017 mg/l Fresh water	Algae	72 hours

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
4-methylpentan-2-one ethylbenzene	OECD 301F -	83 % - Readily - 28 days 79 % - Readily - 10 days	-	-
Conclusion/Summary : There are no data available on the mixture itself.				

English (GB) United Arab Emirates

Code	: 00445088	Date of issue/Date of revision	: 9 October 2024
SIGMAZINC	105 BASE		

SECTION 12: Ecological information

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
✓methylpentan-2-one ethylbenzene	-	-	Readily Readily
xylene bis-[4-(2,3-epoxipropoxi)phenyl]propane	-	-	Readily Not readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
<pre></pre>	1.9	-	Low
	3.6	79.43	Low
	3.12	7.4 to 18.5	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 Endocrine disrupting properties

Not available.

12.7 Other adverse effects

No known significant effects or critical hazards.

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods

Product	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.
Hazardous waste	: Yes.

European waste catalogue (EWC)

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances
Packaging	
Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste

F

packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

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2020/878	

Code	: 00445088	Date of issue/Date of revision	: 9 October 2024
SIGMAZINC	: 105 BASE		

SECTION 13: Disposal considerations

Type of packaging	European waste catalogue (EWC)	
Container	15 01 06	mixed packaging
Special precautions	taken when h Empty contail residues may Do not cut, w	and its container must be disposed of in a safe way. Care should be handling emptied containers that have not been cleaned or rinsed out. ners or liners may retain some product residues. Vapour from product create a highly flammable or explosive atmosphere inside the container. reld or grind used containers unless they have been cleaned thoroughly void dispersal of spilt material and runoff and contact with soil, waterways, ewers.

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	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	11	11	II
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	IZ inc powder - zinc dust (stabilized))	Not applicable.

Additional information

ADR/RID	The environmentally hazardous substance mark is not required wh ≤5 kg.	en transported in sizes of ≤5 L or			
Tunnel code	de : (D/E)				
IMDG	: The marine pollutant mark is not required when transported in sizes of ≤ 5 L or ≤ 5 kg.				
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.				
14.6 Special pre user	Itions for : Transport within user's premises: always transpor upright and secure. Ensure that persons transporting event of an accident or spillage.				
14.7 Transport i according to IM	ulk : Not applicable.				

instruments

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH) Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

United Arab Emirates English (GB)

Code : 00445088 Date of issue/Date of revision SIGMAZINC 105 BASE

: 9 October 2024

SECTION 15: Regulatory information

atory information			
are listed. Not applicable.			
ional regulations.			
-			
<u>es (1005/2009/EU)</u>			
: No Chemical Safety Assessment has been carried out.			
information			
nas changed from previously iss	ued version.		
 ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNEC = Predicted No Effect Concentration RRN = REACH Registration Number 			
 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H351 Suspected of causing cancer. H373 May cause damage to organs through prolonged or repeated exposure. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Harmful to aquatic life with long lasting effects. EUH066 Repeated exposure may cause skin dryness or cracking. 			
: Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1	ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 3 ASPIRATION HAZARD - Category 1 CARCINOGENICITY - Category 2 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED		
	re listed. : Not applicable. : Not applicable. es (1005/2009/EU) : No Chemical Safety Assessed Information has changed from previously iss : ATE = Acute Toxicity Estim. CLP = Classification, Labell 1272/2008] DNEL = Derived No Effect I EUH statement = CLP-spect PNEC = Predicted No Effect RRN = REACH Registration : H225 Highly flammable H226 Flammable liquid H304 May be fatal if swa H312 Harmful in contac H315 Causes skin irrital H317 May cause an alle H318 Causes serious e H319 Causes serious e H332 Harmful if inhaled H335 May cause drows H351 Suspected of cause H373 May cause damage H400 Very toxic to aquatic H411 Toxic to aquatic H410 Very toxic to aquatic H411 Toxic to aquatic H412 Harmful to aquatic EUH066 Repeated exposu : Acute Tox. 4 Aquatic Chronic 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Carc. 2 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Skin Irrit. 2 Skin Sens. 1		

English (GB)

United Arab Emirates

16/17

Code : 00445088	Date of issue/Date of revision	: 9 October 2024
SIGMAZINC 105 BASE		
SECTION 16: Other information		

prmation

	STOT SE 3	EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3
<u>History</u>		
Date of issue/ Date of revision	: 9 October 2024	
Date of previous issue	: 23 October 2023	
Prepared by	: EHS	
Version	: 2.01	
<u>Disclaimer</u>		

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