SAFETY DATA SHEET

Date of issue/Date of revision

: 18 May 2021

Version : 2



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

1.1 Product identifier		
Product name	:	SIGMACOVER 410 BASE BRIGHT ALUMINIUM
Product code	:	00371685
Product type	:	Liquid.
Other means of identification	n	
Not available.		

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 3147 Saudi Arabia Tel: 00966 138 47 31 00 Fax: 00966 138 47 17 34	
e-mail address of person responsible for this SDS	: PS.ACEMEA@ppg.com
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] Fam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1, H317 Repr. 2, H361fd 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.

2.2 Label elements

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II
Code : 00371685	Date of issue/Date of revision : 18 May 2021
SIGMACOVER 410 BASE BRI	GHT ALUMINIUM
SECTION 2: Hazards	identification
Hazard pictograms	
Signal word	: Danger
Hazard statements	 Mammable liquid and vapour. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye damage. Suspected of damaging fertility. Suspected of damaging the unborn child. Very toxic to aquatic life with long lasting effects.
Precautionary statements	
Prevention	: 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. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Storage	: Not applicable.
Disposal	: Not applicable.
Hazardous ingredients	 Pooxy resin (MW ≤ 700) nonylphenol Epoxy Resin (700<mw<=1100)< li=""> Phenol, methylstyrenated 1,3-bis[12-hydroxy-octadecamide-N-methylene]-benzene </mw<=1100)<>
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 requiren	nents
Containers to be fitted with child-resistant fastenings	: Not applicable.
Tactile warning of danger	: Not applicable.
2.3 Other hazards	
Product meets the criteria for PBT or vPvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvB.
Other hazards which do not result in classification	: Prolonged or repeated contact may dry skin and cause irritation.

: 00371685 SIGMACOVER 410 BASE BRIGHT ALUMINIUM Date of issue/Date of revision

: 18 May 2021

SECTION 3: Composition/information on ingredients

: Mixture

3.2 Mixtures	
--------------	--

Code

Product/ingredient name	Identifiers	% by weight	<u>Classification</u> Regulation (EC) No. 1272/2008 [CLP]	Туре
<mark>e</mark> poxy resin (MW ≤ 700)	REACH #: 01-2119456619-26 EC: 500-033-5 CAS: 25068-38-6	≥10 - ≤25	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317 Aquatic Chronic 2, H411	[1]
xylene	REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9	≥5.0 - ≤8.4	Flam. Liq. 3, H226 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335	[1] [2]
Naphtha (petroleum), hydrotreated heavy	EC: 265-150-3 CAS: 64742-48-9 Index: 649-327-00-6	≥5.0 - ≤10	Asp. Tox. 1, H304 Flam. Liq. 3, H226 Asp. Tox. 1, H304 EUH066	[1]
Solvent naphtha (petroleum), light arom. Nota(s) P	REACH #: 01-2119486773-24 EC: 265-199-0 CAS: 64742-95-6 Index: 649-356-00-4	≥1.0 - ≤6.8	Flam. Liq. 3, H226 STOT SE 3, H335 STOT SE 3, H336 Asp. Tox. 1, H304 Aquatic Chronic 2, H411 EUH066	[1]
nonylphenol	EC: 246-672-0 CAS: 25154-52-3 Index: 601-053-00-8	≥1.0 - <5.0	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361fd Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410 (M=10)	[1] [5]
Epoxy Resin (700 <mw<=1100)< td=""><td>CAS: 25036-25-3</td><td>≥1.0 - ≤5.0</td><td>Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317</td><td>[1]</td></mw<=1100)<>	CAS: 25036-25-3	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Eye Irrit. 2, H319 Skin Sens. 1, H317	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - ≤4.7	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	[1] [2]
Phenol, methylstyrenated	REACH #: 01-2119555274-38 EC: 270-966-8 CAS: 68512-30-1	≥1.0 - ≤5.0	Skin Irrit. 2, H315 Skin Sens. 1, H317 Aquatic Chronic 3, H412	[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	[1] [2]
1,3-bis[12-hydroxy-octadecamide- N-methylene]-benzene	REACH #: 01-2119962189-26 EC: 423-300-7 CAS: 911674-82-3	<1.0	Skin Sens. 1, H317 Aquatic Chronic 4, H413	[1] [2]
p-nonylphenol	Index: 616-198-00-2 EC: 203-199-4 CAS: 104-40-5	≤0.10	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Repr. 2, H361 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410	[1] [5]
	English (GB)	Sau	udi Arabia	3/16

Conforms to	Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II			
Code	: 00371685	Date of issue/Date of revision	: 18 May 202	21
SIGMACOVER 410 BASE BRIGHT ALUMINIUM				
SECTIO	N 3: Composition/informat	ion on ingredients		
		(M=10)		
See Section	n 16 for the full text of the H statemen	ts declared above.		1
There are n	o additional ingredients present which w	within the current knowledge of the supplier and	t in the concentr	ations

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

Туре

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

[6] Additional disclosure due to company policy

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

SUB codes represent substances without registered CAS Numbers.

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	:	Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek immediate medical attention.
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

Potential acute health effect	<u>s</u>
Eye contact	: Causes serious eye damage.
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/sympt	<u>oms</u>
Eye contact	: Adverse symptoms may include the following: pain watering redness
Inhalation	: Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations

Conforms to Regulation (EC)	No. 1907/2006 (REACH), Annex II
Code : 00371685	Date of issue/Date of revision : 18 May 2021
SIGMACOVER 410 BASE BR	IGHT ALUMINIUM
SECTION 4: First aid	measures
Skin contact	: Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations
Ingestion	: Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations
4.3 Indication of any immedi	ate 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: Firefigh	ting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising f	rom the substance or mixture
Hazards from the substance or mixture	: Flammable liquid and vapour. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous combustion products	: Decomposition products may include the following materials: carbon 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.

Code : 00371685 SIGMACOVER 410 BASE BRIGHT ALUMINIUM Date of issue/Date of revision

SECTION 6: Accidental release measures 6.1 Personal precautions, protective equipment and emergency procedures : No action shall be taken involving any personal risk or without suitable training. For non-emergency Evacuate surrounding areas. Keep unnecessary and unprotected personnel from personnel entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe 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 nonemergency personnel". 6.2 Environmental : 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 precautions 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	f without risk. Move containers from spill area. Use spark-proof tools and
explosion- sewers, w treatment combustib place in co waste disp	proof equipment. Approach the release from upwind. Prevent entry into ater courses, basements or confined areas. Wash spillages into an effluent plant or proceed as follows. Contain and collect spillage with non- le, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and ontainer for disposal according to local regulations. Dispose of via a licensed losal contractor. Contaminated absorbent material may pose the same the spilt product.
	on 1 for emergency contact information.

sections

See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

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

7.1 Precautions for safe handling

Protective measures	:	history of skin sensitization proble this product is used. Avoid expos exposure during pregnancy. Do r and understood. Do not get in eye mist. Do not ingest. Avoid releas ventilation. Wear appropriate res storage areas and confined space container or an approved alternati closed when not in use. Store and ignition source. Use explosion-pre handling) equipment. Use only no	ctive equipment (see Section 8). Per ms should not be employed in any pr oure - obtain special instructions before not handle until all safety precautions es or on skin or clothing. Do not breat the to the environment. Use only with pirator when ventilation is inadequate es unless adequately ventilated. Kee ive made from a compatible material, d use away from heat, sparks, open to oof electrical (ventilating, lighting and on-sparking tools. Take precautionar Empty containers retain product resider.	rocess in which re use. Avoid have been read athe vapour or adequate e. Do not enter p in the original , kept tightly flame or any other I material ry measures
Advice on general occupational hygiene	:	handled, stored and processed. V drinking and smoking. Remove c	uld be prohibited in areas where this Norkers should wash hands and face ontaminated clothing and protective of Section 8 for additional information on	e before eating, equipment before
		English (GB)) Saudi Arabia	6/16

Conforms to Regulation (E	EC) No. 1907/2006 (REACH), Annex II
Code : 00371685	Date of issue/Date of revision : 18 May 2021
SIGMACOVER 410 BASE	BRIGHT ALUMINIUM
SECTION 7: Handl	ing and storage
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)	

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be

TWA: 3 mg/m³, (Respirable fraction) Recommended monitoring

: Not available. : Not available.

SECTION 8: Exposure controls/personal protection

consulted for any available use-specific information provided in the Exposure Scenario(s).

: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

8.2 Exposure controls

See Section 1.2 for Identified uses.

Recommendations

8.1 Control parameters

2-methylpropan-1-ol

ethylbenzene

benzene

procedures

Occupational exposure limits

Product/ingredient name

1,3-bis[12-hydroxy-octadecamide-N-methylene]-

solutions

xylene

Industrial sector specific

Exposure limit values

EU OEL (Europe, 10/2019). Absorbed through skin.

EU OEL (Europe, 10/2019). Absorbed through skin.

STEL: 442 mg/m³ 15 minutes. STEL: 100 ppm 15 minutes. TWA: 221 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

TWA: 152 mg/m³ 8 hours. TWA: 50 ppm 8 hours.

STEL: 884 mg/m³ 15 minutes. STEL: 200 ppm 15 minutes. TWA: 442 mg/m³ 8 hours. TWA: 100 ppm 8 hours.

ACGIH TLV (United States).

ACGIH TLV (United States, 3/2020).

onforms to Regulation (EC)) No. 1907/2006 (REACH), Annex II
Code : 00371685	Date of issue/Date of revision : 18 May 2021
SIGMACOVER 410 BASE BR	IGHT ALUMINIUM
SECTION 8: Exposu	re controls/personal protection
Appropriate engineering controls	: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
Individual protection measu	<u>ures</u>
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 <u>Skin protection</u>	: Chemical splash goggles and face shield.
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	: 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. If workers are exposed to concentrations above the exposure limit, they must use appropriate, certified respirators. Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary.
Environmental exposure controls	: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

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

9.1 Information on basic physical and chemical properties Appearance Physical state : Liquid. Colour : Silver-white. Odour : Characteristic.

English (GB)

Conforms to Regulation (EC) No.	19	07/2006 (REACH), A	nnex II						
Code : 00371685			Date of	issue/D	ate of	revisio	n	: 18 M	ay 2021
SIGMACOVER 410 BASE BRIGHT	GMACOVER 410 BASE BRIGHT ALUMINIUM								
SECTION 9: Physical an			perties						
Odour threshold	1	Not available.							
рН	÷	insoluble in water.							
Melting point/freezing point	1	May start to solidify at the following temperature: -8°C (17.6°F) This is based on data for the following ingredient: nonylphenol. Weighted average: -61.37°C (-78.5°F)							
Initial boiling point and boiling range	:	>37.78°C	>37.78°C						
Flash point	÷	Closed cup: 36°C							
Evaporation rate	:	Highest known value: 0.84 (ethylbenzene) Weighted average: 0.51compared with butyl acetate							
Flammability (solid, gas)	1	liquid							
Upper/lower flammability or explosive limits	1	: Greatest known range: Lower: 1.7% Upper: 10.9% (2-methylpropan-1-ol)							
Vapour pressure	1		Vapour Pressure at 20°C Vapour pressure at 50°C					sure at 50°C	
		Ingredient name	mm Hg	kPa	Met	nod	mm Hg	kPa	Method
		-methylpropan-1-ol	<12	<1.6	DIN EI 13016				
Vapour density	;	Highest known value 1)	:7.59 (A	ir = 1) (n	onylph	nenol). V	Weight	ed averag	e: 4.66 (Air =
Relative density	:	1.26							
Solubility(ies)	÷	Insoluble in the follow	ving mate	rials: colo	d wate	r.			
Partition coefficient: n-octanol/ water	:	Not applicable.							
Auto-ignition temperature	:	Ingredient name		°C		°F		Method	
		Maphtha (petroleum), hyd heavy	Irotreated	280 to 4	70	536 to 87	78		
Decomposition temperature	÷	Stable under recomn	nended s	orage ar	nd han	dling co	nditions	s (see Sec	tion 7).
Viscosity	:	Kinematic (40°C): >2		-		-			·
Explosive properties	:	Product does not pre	sent an e	xplosion	hazar	d.			
Oxidising properties	;	Product does not present an oxidizing hazard.							

9.2 Other information

No additional information.

SECTION 10: Stability and reactivity

10.1 Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: The product is stable.
10.3 Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: 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.

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II

Code : 00371685

SIGMACOVER 410 BASE BRIGHT ALUMINIUM

Date of issue/Date of revision

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

Depending on conditions, decomposition products may include the following materials: ŝ, carbon oxides halogenated compounds metal oxide/oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
epoxy resin (MW ≤ 700)	LD50 Dermal	Rabbit	>2 g/kg	-
	LD50 Oral	Rat	>2 g/kg	-
xylene	LD50 Dermal	Rabbit	1.7 g/kg	-
	LD50 Oral	Rat	4.3 g/kg	-
Naphtha (petroleum), hydrotreated heavy	LD50 Dermal	Rabbit	>5000 mg/kg	-
	LD50 Oral	Rat	>6 g/kg	-
Solvent naphtha (petroleum), light aromatic	LD50 Dermal	Rabbit	3.48 g/kg	-
	LD50 Oral	Rat	8400 mg/kg	-
nonylphenol	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	580 mg/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	-
2-methylpropan-1-ol	LC50 Inhalation Vapour	Rat	24.6 mg/l	4 hours
	LD50 Dermal	Rabbit	2460 mg/kg	-
	LD50 Oral	Rat	2830 mg/kg	-
Phenol, methylstyrenated	LD50 Dermal	Rabbit	>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	-
Reaction products of	LC50 Inhalation Dusts and	Rat	>5.08 mg/l	4 hours
12-hydroxyoctadecanoic acid and	mists			
octadecanoic acid and				
1,3-phenylenedimethanamine				
p-nonylphenol	LD50 Oral	Rat	1620 mg/kg	-

Conclusion/Summary : There are no data available on the mixture itself.

Acute toxicity estimates

Route	ATE value		
Øral	11664.15 mg/kg		
Dermal	26962.14 mg/kg		
Inhalation (vapours)	157.04 mg/l		

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
epoxy resin (MW ≤ 700)	Skin - Mild irritant	Rabbit	-	-	-
	Eyes - Mild irritant	Rabbit	-	-	-
xylene	Skin - Moderate irritant	Rabbit	-	24 hours 500 mg	-

Conclusion/Summary

Skin : There are no data available on the mixture itself.

Eyes

: There are no data available on the mixture itself.

Respiratory

: There are no data available on the mixture itself.

Sensitisation

Product/ingredient name	Route of exposure	Species	Result
epoxy resin (MW ≤ 700)	skin	Mouse	Sensitising

English (G	B)
------------	----

Saudi Arabia

onforms to Regulation	(EC) No. 1907/2006 (REACH), A	nnex II							
Code : 00371685			ssue/	Date of revision	: 18 May 2021				
SIGMACOVER 410 BASE	BRIGHT ALUMINIUM								
SECTION 11. Tox	icological information								
Conclusion/Summary									
Skin	. There are no data availa	blo on tho	mixtur	o itsolf					
-		 There are no data available on the mixture itself. There are no data available on the mixture itself. 							
Respiratory Mutagenicity			mxtur	e ilsell.					
	. There are no data availa	: There are no data available on the mixture itself.							
Conclusion/Summary	: There are no data avalla		mxtur	e ilsell.					
Carcinogenicity	. There are no data availa	hla an tha		a ita alf					
Conclusion/Summary	: There are no data availa	bie on the	mxtur	e ilsell.					
Reproductive toxicity	. There are no data availa	hla an tha		a ita alf					
Conclusion/Summary	: There are no data availa	DIE ON THE	mixtur	e itseif.					
Teratogenicity	-								
Conclusion/Summary	: There are no data availa	ble on the	mixtur	e itseit.					
	<u>xicity (single exposure)</u>			i	·				
Product	/ingredient name	Categ	gory	Route of exposure	Target organs				
xylene		Catego	ory 3	-	Respiratory tract irritation				
Solvent naphtha (petrole	um), light arom. Nota(s) P	Catego	ory 3	-	Respiratory tract irritation				
O mothylaron an 1 al		Catego			Narcotic effects				
2-methylpropan-1-ol		Catego Catego		-	Respiratory tract irritation				
Specific target organ to	<u>xicity (repeated exposure)</u>		.,						
		Cata		Route of	Target ergene				
FIOUUC	/ingredient name	Categ	JOLA	exposure	Target organs				
ethylbenzene		Catego	ory 2	-	hearing organs				
Aspiration hazard				1					
Prod	uct/ingredient name			I	Result				
xylene				RATION HAZARD					
Naphtha (petroleum), hy				RATION HAZARD					
solvent naphtha (petrole	eum), light arom. Nota(s) P			RATION HAZARD RATION HAZARD	0,				
	: Not available.								
Information on likely routes of exposure	. Not available.								
Potential acute health e	ffocts								
Inhalation	: No known significant effe	acts or critic	al ha	zarde					
Ingestion	: No known significant effe								
Skin contact	: Causes skin irritation. D				alleraic skin reaction				
	: Causes skin initiation. D : Causes serious eye dam	-	110 SK	III. IVIAY CAUSE All a	anergic skill reduluti.				
Eye contact	e physical, chemical and toxic	-	aract	oristics					
Inhalation									
mnalation	: Adverse symptoms may reduced foetal weight	include the		wing.					
	increase in foetal deaths								
	skeletal malformations								
Ingestion	: Adverse symptoms may	include the	e follov	wing:					
	stomach pains reduced foetal weight								
	increase in foetal deaths								

skeletal malformations

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex I		
Code : 00371685	Date	of issue/Date of revision	: 18 May 2021
SIGMACOVER 410 BASE BF	IGHT ALUMINIUM		
SECTION 11: Toxico	logical information		
Skin contact	: Adverse symptoms may include pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations	e the following:	
Eye contact	: Adverse symptoms may include pain watering redness	e the following:	
Delayed and immediate eff	ects as well as chronic effects fro	m short and long-term expos	<u>sure</u>
<u>Short term exposure</u> Potential immediate effects	: Not available.		
Potential delayed effects	S : Not available.		
Long term exposure Potential immediate effects	: Not available.		
Potential delayed effects Potential chronic health ef			
Not available.			
Conclusion/Summary General	 Not available. Prolonged or repeated contact dermatitis. Once sensitized, a exposed to very low levels. 		
Carcinogenicity	: No known significant effects or	critical hazards.	
Mutagenicity	: No known significant effects or	critical hazards.	
Reproductive toxicity	: Suspected of damaging fertility	. Suspected of damaging the u	nborn child.
Other information	: Not available.		

Frolonged 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.

SECTION 12: Ecological information

	12.1	Tox	icity
--	------	-----	-------

Product/ingredient name	Result	Species	Exposure
<mark>e</mark> poxy resin (MW ≤ 700)	Acute LC50 1.8 mg/l	Daphnia	48 hours
	Chronic NOEC 0.3 mg/l	Daphnia	21 days
Solvent naphtha (petroleum), light aromatic	Acute LC50 8.2 mg/l	Fish	96 hours
nonylphenol	Acute EC50 0.056 mg/l	Algae -	72 hours
	Fresh water	Desmodesmus	
		subspicatus	
	Chronic EC10 0.003 mg/l	Algae -	72 hours
	Fresh water	Desmodesmus	
		subspicatus	
	Chronic NOEC 1 µg/l Fresh	Daphnia - Daphnia	21 days
	water	magna	
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
ethylbenzene	Acute LC50 150 to 200 mg/l	Fish	96 hours
	English (GB) Sa	audi Arabia	12/16

onforms to Regulation (EC) No. 1907/2006 (REACH), Annex II						
Code : 00371685	Date of issue/Date of	revision	: 18 May	y 2021		
SIGMACOVER 410 BASE BRIGHT ALUMINIUM						
SECTION 12: Ecological information	n					
Reaction products of 12-hydroxyoctadecanoic acid and octadecanoic acid and 1,3-phenylenedimethanamine	Fresh water Acute LC50 >100 mg/l	Fish		96 hours		

Conclusion/Summary

ry : There are no data available on the mixture itself.

12.2 Persistence and degradability

Product/ingredient name	Test	Result		Dose	Inoculum
epoxy resin (MW ≤ 700)	OECD 301F	5 % - 28 days	6 - 28 days -		-
Conclusion/Summary : There are no data available on the mixture itself.					
Product/ingredient name		Aquatic half-life	Photoly	/sis	Biodegradability
epoxy resin (MW ≤ 700) xylene ethylbenzene			- - -	1	Not readily Readily Readily

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
epoxy resin (MW ≤ 700)	3	31	low
xylene	3.12	7.4 to 18.5	low
nonylphenol	3.28	154.88	low
2-methylpropan-1-ol	1	-	low
Phenol, methylstyrenated	3.627	-	low
ethylbenzene	3.6	79.43	low
p-nonylphenol	5.76	380.19	low

12.4 Mobility in soil	
Soil/water partition	

coefficient (Koc)

Mobility

: Not available.

: Not available.

12.5 Results of PBT and vPvB assessment

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

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

SECTION 13: Disposal considerations

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

13.1 Waste treatment methods <u>Product</u>	
Methods of disposal	The generation of waste should be avoided or 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.
<u>European waste catalogue (</u>	EWC)

English (GB)

SIGMACOVER 410 BASE BRIGHT ALUMINIUM

: 00371685

: 18 May 2021

SECTION 13: Disposal considerations

Waste code	Waste designation
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances

Packaging

Code

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.

Type of packaging	European waste catalogue (EWC)			
Container	15 01 06 mixed packaging			
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	IATA
14.1 UN number	UN1263	UN1263	UN1263
14.2 UN proper shipping name	PAINT	PAINT	PAINT
14.3 Transport hazard class(es)	3	3	3
14.4 Packing group	Ш		III
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(Epoxy resin (MW ≤ 700), Solvent naphtha (petroleum), light aromatic)	Not applicable.

Additional information

ADR/RID	: The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.
Tunnel code	: (D/E)
IMDG	: The marine pollutant mark is not required when transported in sizes of \leq 5 L or \leq 5 kg.
ΙΑΤΑ	: The environmentally hazardous substance mark may appear if required by other transportation regulations.
14.6 Special pre- user	cautions for : Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.
14.7 Transport in according to IM0 instruments	

Code : 00371685 SIGMACOVER 410 BASE BRIGHT ALUMINIUM Date of issue/Date of revision

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.

Substances of very high concern

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Substance of equivalent concern for environment	4-Nonylphenol, branched and linear [substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof] 4-nonylphenol, branched and linear substances with a linear and/or branched alkyl chain with a carbon number of 9 covalently bound in position 4 to phenol, covering also UVCB- and well-defined substances which include any of the individual isomers or a combination thereof	Candidate Candidate	ED/169/2012 ED/169/2012	4/19/2013 12/19/2012

Annex XVII - Restrictions : Not applicable. on the manufacture,

- placing on the market
- and use of certain
- dangerous substances,

mixtures and articles

Other national and international regulations.

Ozone depleting substances (1005/2009/EU)

Not listed.

15.2 Chemical safety : No Chemical Safety Assessment has been carried out.

. .

assessment

. . .

— . ..

SECTION 16: Other information

...

.

Indicates information that	as changed from previously issued version.		
Abbreviations and acronyms	 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 		
Full text of abbreviated H statements	 H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. 		

. .

.

.



Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II Code : 00371685 Date of issue/Date of revision : 18 May 2021				
		Date of issue/Date of revision: 18 May 2021		
SIGMACOVER 410 BASE BR				
SECTION 16: Other i	nformation			
Full text of classifications [CLP/GHS]	H332Harmful if inhH335May cause reH336May cause diH361Suspected ofH361fdSuspected ofH373May cause daH400Very toxic toH410Very toxic toH411Toxic to aquaH412Harmful to acH413May cause lo	spiratory irritation. by siness or dizziness. damaging fertility or the unborn child. damaging fertility. Suspected of damaging the unborn child. mage to organs through prolonged or repeated exposure. quatic life. quatic life with long lasting effects. ic life with long lasting effects. uatic life with long lasting effects. uatic life with long lasting effects. ig lasting harmful effects to aquatic life. osure may cause skin dryness or cracking. ACUTE TOXICITY - Category 4 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 SPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1		
	Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Irrit. 2 Skin Sens. 1 STOT RE 2 STOT SE 3	SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 FLAMMABLE LIQUIDS - Category 2 FLAMMABLE LIQUIDS - Category 3 REPRODUCTIVE TOXICITY - Category 2 SKIN CORROSION/IRRITATION - Category 1B SKIN CORROSION/IRRITATION - Category 2 SKIN SENSITISATION - Category 1 SPECIFIC TARGET ORGAN TOXICITY - REPEATED EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXICITY - SINGLE EXPOSURE - Category 3		
<u>History</u>				
Date of issue/ Date of revision	: 18 May 2021			
Date of previous issue	: 17 January 2020			
Prepared by	: EHS			
Version	: 2			
<u>Disclaimer</u>				

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by us, and to recommend precautionary measures for the storage and handling of the products. No warranty or guarantee is given in respect of the properties of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.