# **SAFETY DATA SHEET**

Date of issue/Date of revision

: 12 September 2024 Version





: 5.01

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

1.1 Product identifier	
Product name	: AMERLOCK 400 C / 400 GFA HARDENER
Product code	: 00289014
Other means of identifica	tion
Not available.	
1.2 Relevant identified use	s of the substance or mixture and uses advised against
Product use	: Professional applications, Used by spraying.
Use of the substance/ mixture	: 🖉oating.; Hardener.
Uses advised against	: Product is not intended, labelled or packaged for consumer use.
1.3 Details of the supplier of	of the safety data sheet
Sigma Paint Saudi Arabia L	
PO Box 7509, Dammam 31 Saudi Arabia	472
Tel: 00966 138 47 31 00	
Fax: 00966 138 47 17 34	
e-mail address of person	: PS.ACEMEA@ppg.com
responsible for this SDS	
1 4 Emergency telephone	• 00966 138473100 extn 1001

1.4 Emergency telephone : 00966 138473100 extn 1001 number

# **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 Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Carc. 2, H351 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

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AMERLOCK 4	00 C / 400 GFA	HARDENER
SECTION	2: Hazards	s identification
Hazard picto	ograms	
Signal word		: Danger
Hazard state	ements	<ul> <li>Flammable liquid and vapour.</li> <li>Causes severe skin burns and eye damage.</li> <li>May cause an allergic skin reaction.</li> <li>Suspected of causing cancer.</li> <li>Suspected of damaging fertility. Suspected of damaging the unborn child.</li> <li>Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautional	ry statements	
Prevention		: Wear protective gloves, protective clothing and eye or face protection. Keep away fron heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Avoid release to the environment.
Response		: Collect spillage. IF INHALED: Immediately call a POISON CENTER or doctor.
Storage		: Not applicable.
Disposal		<ul> <li>Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> <li>P280, P210, P273, P391, P304 + P310, P501</li> </ul>
Hazardous in	ngredients	<ul> <li>#-methylpentan-2-one</li> <li>Polyaminoamide</li> <li>3-aminomethyl-3,5,5-trimethylcyclohexylamine</li> <li>4-nonylphenol, branched</li> <li>4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-</li> <li>2,3-epoxypropane, reaction products with 3-aminomethyl-3,5,5-trimethylcyclohexylamin</li> <li>Amines, polyethylenepoly-, triethylenetetramine fraction</li> </ul>
Supplementa elements	al label	: Not applicable.
on the manu placing on th use of certai	Restrictions facture, he market and n dangerous mixtures and	: Not applicable.
Special pack	aging requirer	nents
Containers with child-re fastenings		: Not applicable.
Tactile warr	ning of danger	: Not applicable.
2.3 Other haza	ards	
Product meet for PBT or vF	ts the criteria PvB	: This mixture does not contain any substances that are assessed to be a PBT or a vPvE
Other hazard not result in o	s which do classification	: Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation.
		May cause endocrine disruption.

Date

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AMERLOCK 400 C / 400 GFA HARDENER

: 00289014

# **SECTION 3: Composition/information on ingredients**

## 3.2 Mixtures

Code

: Mixture

Product/ingredient name	Identifiers	%	Classification	Specific Conc. Limits, M-factors and ATEs	Туре
<mark>4</mark> -methylpentan-2-one	REACH #: 01-2119473980-30 EC: 203-550-1 CAS: 108-10-1 Index: 606-004-00-4	≥10 - ≤16	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]
Polyaminoamide	EC: Polymer CAS: 68082-29-1	≥5.0 - ≤10	Eye Dam. 1, H318	-	[1]
benzyl alcohol	REACH #: 01-2119492630-38 EC: 202-859-9 CAS: 100-51-6 Index: 603-057-00-5	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H332 Eye Irrit. 2, H319	ATE [Oral] = 1230 mg/ kg ATE [Inhalation (dusts and mists)] = 1.5 mg/l	[1] [2]
cyclohexanone	EC: 203-631-1 CAS: 108-94-1	≥1.0 - ≤5.0	Flam. Liq. 3, H226 Acute Tox. 4, H302 Acute Tox. 4, H312 Acute Tox. 4, H332 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335	ATE [Oral] = 1800 mg/ kg ATE [Dermal] = 1100 mg/kg ATE [Inhalation (gases)] = 8000 ppm	[1] [2]
3-aminomethyl- 3,5,5-trimethylcyclohexylamine	REACH #: 01-2119514687-32 EC: 220-666-8 CAS: 2855-13-2 Index: 612-067-00-9	≥1.0 - ≤5.0	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317	ATE [Oral] = 1030 mg/ kg Skin Sens. 1, H317: C ≥ 0.001%	[1]
4-nonylphenol, branched	REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 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 Aquatic Chronic 1, H410	ATE [Oral] = 1300 mg/ kg M [Acute] = 10 M [Chronic] = 10	[1] [3]
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro- 2,3-epoxypropane, reaction products with 3-aminomethyl- 3,5,5-trimethylcyclohexylamine	EC: 500-101-4 CAS: 38294-64-3	≥1.0 - ≤5.0	Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 3, H412	-	[1]
2-methylpropan-1-ol	REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1	≥1.0 - ≤3.7	Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336	-	[1] [2]
2,4,6-tris (dimethylaminomethyl)	REACH #: 01-2119560597-27	≥1.0 - ≤5.0	Acute Tox. 4, H302 Acute Tox. 4, H312	ATE [Oral] = 1200 mg/ kg	[1]
		English	(GB) Saudi	Arabia	3/17

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AMERLOCH	( 400 C / 400 GFA HARDENER		

## **SECTION 3: Composition/information on ingredients**

	Sition/informat		<u> </u>		
phenol	EC: 202-013-9 CAS: 90-72-2		Skin Corr. 1C, H314 Eye Dam. 1, H318	ATE [Dermal] = 1280 mg/kg	
Fatty acids, tall-oil, reaction products with diethylenetriamine	EC: 263-160-2 CAS: 61790-69-0	<1.0	Acute Tox. 4, H302 Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT RE 2, H373 (oral) Aquatic Acute 1, H400 Aquatic Chronic 1, H410	ATE [Oral] = 500 mg/ kg M [Acute] = 1 M [Chronic] = 1	[1]
Amines, polyethylenepoly-, triethylenetetramine fraction	REACH #: 01-2119487919-13 EC: 292-588-2 CAS: 90640-67-8	<1.0	Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1B, H314 Eye Dam. 1, H318 Skin Sens. 1, H317 Aquatic Chronic 3, H412	ATE [Oral] = 1716 mg/ kg ATE [Dermal] = 1465 mg/kg	[1]
salicylic acid	REACH #: 01-2119486984-17 EC: 200-712-3 CAS: 69-72-7 Index: 607-732-00-5	≤0.30	Acute Tox. 4, H302 Eye Dam. 1, H318 Repr. 2, H361d	ATE [Oral] = 891 mg/ kg	[1]
			See Section 16 for the full text of the H statements declared above.		

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

<u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance of equivalent concern

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	<ul> <li>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.</li> </ul>
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

English (GB)	
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AMERLOCK 400 C / 400 GI	
SECTION 4: First a	id measures
Potential acute health eff	
Eye contact	: Causes serious eye damage.
Inhalation	: No known significant effects or critical hazards.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Over-exposure signs/syn	-
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
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 imme	diate medical attention and special treatment needed
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
Specific treatments	: No specific treatment.
SECTION 5: Firefig	hting measures
5.1 Extinguishing media	
Suitable extinguishing media	: Use dry chemical, CO <sub>2</sub> , water spray (fog) or foam.
Unsuitable extinguishing media	: Do not use water jet.
5.2 Special hazards arising	g from 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 nitrogen oxides halogenated compounds metal oxide/oxides
	English (GB) Saudi Arabia 5/17

Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2020/878 Code : 00289014 Date of issue/Date of revision : 12 September 2024 AMERLOCK 400 C / 400 GFA HARDENER SECTION 5: Firefighting measures 5.3 Advice for firefighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if **Special precautions for** there is a fire. No action shall be taken involving any personal risk or without suitable fire-fighters training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool. Fire-fighters should wear appropriate protective equipment and self-contained breathing **Special protective** ŝ, apparatus (SCBA) with a full face-piece operated in positive pressure mode. Clothing equipment for fire-fighters 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, protective equipment and emergency procedures

For non-emergency personnel	To 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 ares, smoking or flames in hazard area. Do not breathe vapour or mist. Provide idequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
For emergency responders	f specialised clothing is required to deal with the spillage, take note of any information Section 8 on suitable and unsuitable materials. See also the information in "For non- mergency personnel".
6.2 Environmental precautions	woid dispersal of spilt material and runoff and contact with soil, waterways, drains and ewers. Inform the relevant authorities if the product has caused environmental follution (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	<ul> <li>See Section 1 for emergency contact information.</li> <li>See Section 8 for information on appropriate personal protective equipment.</li> <li>See Section 13 for additional waste treatment information.</li> </ul>

## **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

Conforms to Regulation (E 2020/878	C) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)
Code : 00289014	Date of issue/Date of revision : 12 September 2024
AMERLOCK 400 C / 400 GF	-A HARDENER
SECTION 7: Handli	ng and storage
Protective measures	: Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. Avoid release to the environment. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	: Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	: Store 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**

Product/ingredient name		Exposure limit values		
<mark>₩</mark> -methylpentan-2-one	STEL: 208 mg/m <sup>3</sup> 15 i STEL: 50 ppm 15 min TWA: 83 mg/m <sup>3</sup> 8 hou	EU OEL (Europe, 1/2022). STEL: 208 mg/m <sup>3</sup> 15 minutes. STEL: 50 ppm 15 minutes. TWA: 83 mg/m <sup>3</sup> 8 hours. TWA: 20 ppm 8 hours.		
benzyl alcohol	IPEL (-). TWA: 5 ppm STEL: 10 ppm	<b>IPEL (-).</b> TWA: 5 ppm		
cyclohexanone	EU OEL (Europe, 1/20 STEL: 81.6 mg/m <sup>3</sup> 15 STEL: 20 ppm 15 min TWA: 40.8 mg/m <sup>3</sup> 8 h	<b>EU OEL (Europe, 1/2022). Absorbed through skin.</b> STEL: 81.6 mg/m <sup>3</sup> 15 minutes. STEL: 20 ppm 15 minutes. TWA: 40.8 mg/m <sup>3</sup> 8 hours. TWA: 10 ppm 8 hours.		
<u> </u>	English (GB)	Saudi Arabia	7/17	

controlsother engineering controls to keep worker exposure to airborne contamina recommended or statutory limits. The engineering controls also need to k vapour or dust concentrations below any lower explosive limits. Use explo ventilation equipment.Individual protection measuresWash hands, forearms and face thoroughly after handling chemical produce eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminate Contaminated work clothing should not be allowed out of the workplace. No contaminated clothing before reusing. Ensure that eyewash stations and showers are close to the workstation location.Eye/face protection Skin protectionChemical-resistant, impervious gloves complying with an approved standar worn at all times when handling chemical products if a risk assessment im necessary. Considering the parameters specified by the glove manufactu during use that the gloves are still retaining their protective properties. It is noted that the time to breakthrough for any glove material may be differen glove manufacturers. In the case of mixtures, consisting of several substa protection time of the gloves cannot be accurately estimated. When prolo	
TWA: 152 mg/m³ 8 hours. TWA: 50 ppm 8 hours.         Recommended monitoring procedures       : Reference should be made to monitoring standards, such as the following Standard EN 689 (Workplace atmospheres - Guidance for the assessmer by inhalation to chemical agents for comparison with limit values and mea strategy) European Standard EN 14042 (Workplace atmospheres - Guidance for the assessment of exposure to cher biological agents) European Standard EN 14042 (Workplace atmospheres - requirements for the performance of procedures for the measurement of c agents) Reference to national guidance documents for methods for the d of hazardous substances will also be required.         3.2 Exposure controls       : Use only with adequate ventilation. Use process enclosures, local exhaus other engineering controls to keep worker exposure to airborne contamina recommended or statutory limits. The engineering controls also need to k vapour or dust concentrations below any lower explosive limits. Use explo- ventilation equipment.         Individual protection measures       : Wash hands, forearms and face thoroughly after handling chemical produ- eating, smoking and using the lavatory and at the end of the workplace. Contaminated work clothing should not be allowed out of the workplace. Contaminated work clothing should not be allowed out of the workplace.         Eye/face protection Skin protection Hand protection       : Chemical splash goggles and face shield.         Skin protection glove manufacturers. In the case of the user specified by the glove manufactu during use that the gloves are still retaining their protective properties. It noted that the time to breakthrough for any glove material may be differen glove manufacturers. In the case of mixtures, consisting of several substa protection time of the gloves cannot be a	
proceduresStandard EN 689 (Workplace atmospheres - Guidance for the assessmer by inhalation to chemical agents for comparison with limit values and mea strategy) European Standard EN 14042 (Workplace atmospheres - Guida application and use of procedures for the assessment of exposure to cher biological agents). European Standard EN 482 (Workplace atmospheres - requirements for the performance of procedures for memosynere to cher biological agents). Reference to national guidance documents for methods for the do of hazardous substances will also be required.3.2 Exposure controls:Appropriate engineering controls::Use only with adequate ventilation. Use process enclosures, local exhaus other engineering controls to keep worker exposure to airborne contamina recommended or statutory limits. The engineering controls also need to k vapour or dust concentrations below any lower explosive limits. Use explo ventilation equipment.Individual protection measures:Hygiene measures:Wash hands, forearms and face thoroughly after handling chemical produ eating, smoking and using the lavatory and at the end of the working peric Appropriate techniques should be used to remove potentially contaminate Contaminated work clothing before reusing. Ensure that eyewash stations and is showers are close to the workstation location.Eyelface protection Skin protection Hand protection:Hand protection Hand protection:Chemical-resistant, impervious gloves complying with an approved standar worn at all times when handling chemical products if a risk assessment in necessary. Considering the parameters specified by the glove manufactu during use that the gloves are still retaining their protective properties. It s<	
<ul> <li>Appropriate engineering controls</li> <li>Use only with adequate ventilation. Use process enclosures, local exhaus other engineering controls to keep worker exposure to airborne contaminate recommended or statutory limits. The engineering controls also need to k vapour or dust concentrations below any lower explosive limits. Use explorentiation equipment.</li> <li>Individual protection measures</li> <li>Hygiene measures         <ul> <li>Wash hands, forearms and face thoroughly after handling chemical produce eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminate Contaminated work clothing should not be allowed out of the workplace. No contaminated clothing before reusing. Ensure that eyewash stations and showers are close to the workstation location.</li> <li>Chemical splash goggles and face shield.</li> </ul> </li> <li>Eye/face protection         <ul> <li>Chemical-resistant, impervious gloves complying with an approved standar worn at all times when handling chemical products if a risk assessment im necessary. Considering the parameters specified by the glove manufactud uring use that the gloves are still retaining their protective properties. It is noted that the time to breakthrough for any glove material may be differen glove manufacturers. In the case of mixtures, consisting of several substar protection time of the gloves cannot be accurately estimated. When prolo</li> </ul> </li></ul>	nt of exposure asurement e for the mical and - General chemical
controlsother engineering controls to keep worker exposure to airborne contamina recommended or statutory limits. The engineering controls also need to k vapour or dust concentrations below any lower explosive limits. Use explo ventilation equipment.Individual protection measures: Wash hands, forearms and face thoroughly after handling chemical produce eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminate Contaminated work clothing should not be allowed out of the workplace. No contaminated clothing before reusing. Ensure that eyewash stations and showers are close to the workstation location.Eye/face protection Skin protection: Chemical-resistant, impervious gloves complying with an approved standar worn at all times when handling chemical products if a risk assessment im necessary. Considering the parameters specified by the glove manufactu during use that the gloves are still retaining their protective properties. It is noted that the time to breakthrough for any glove material may be differen glove manufacturers. In the case of mixtures, consisting of several substa protection time of the gloves cannot be accurately estimated. When prolo	
Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical produce eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminate Contaminated work clothing should not be allowed out of the workplace. A contaminated clothing before reusing. Ensure that eyewash stations and a showers are close to the workstation location.Eye/face protection Skin protection Hand protection: Chemical splash goggles and face shield.Eye/face protection Skin protection Hand protection: Chemical-resistant, impervious gloves complying with an approved standar worn at all times when handling chemical products if a risk assessment im necessary. Considering the parameters specified by the glove manufactu during use that the gloves are still retaining their protective properties. It is noted that the time to breakthrough for any glove material may be differen glove manufacturers. In the case of mixtures, consisting of several substap protection time of the gloves cannot be accurately estimated. When protection	ants below an <u>y</u> keep gas,
<ul> <li>eating, smoking and using the lavatory and at the end of the working period Appropriate techniques should be used to remove potentially contaminate Contaminated work clothing should not be allowed out of the workplace. A contaminated clothing before reusing. Ensure that eyewash stations and showers are close to the workstation location.</li> <li>Eye/face protection</li> <li>Hand protection</li> <li>Chemical-resistant, impervious gloves complying with an approved standar worn at all times when handling chemical products if a risk assessment indinecessary. Considering the parameters specified by the glove manufactud during use that the gloves are still retaining their protective properties. It is noted that the time to breakthrough for any glove material may be differen glove manufacturers. In the case of mixtures, consisting of several substaprotection time of the gloves cannot be accurately estimated. When protection</li> </ul>	
Skin protection         Hand protection         : Chemical-resistant, impervious gloves complying with an approved standar worn at all times when handling chemical products if a risk assessment in necessary. Considering the parameters specified by the glove manufactur during use that the gloves are still retaining their protective properties. It is noted that the time to breakthrough for any glove material may be differen glove manufacturers. In the case of mixtures, consisting of several substar protection time of the gloves cannot be accurately estimated. When prolo	od. ed clothing. Wash
worn at all times when handling chemical products if a risk assessment in necessary. Considering the parameters specified by the glove manufactu during use that the gloves are still retaining their protective properties. It s noted that the time to breakthrough for any glove material may be differen glove manufacturers. In the case of mixtures, consisting of several substa protection time of the gloves cannot be accurately estimated. When prolo	
frequently repeated contact may occur, a glove with a protection class of 6 (breakthrough time greater than 480 minutes according to EN 374) is reco When only brief contact is expected, a glove with a protection class of 2 of (breakthrough time greater than 30 minutes according to EN 374) is recon The user must check that the final choice of type of glove selected for han product is the most appropriate and takes into account the particular cond as included in the user's risk assessment.	adicates this is urer, check should be at for different ances, the onged or 6 ommended. or higher mmended. adling this
Gloves : butyl rubber	
Body protection: Personal protective equipment for the body should be selected based on t performed and the risks involved and should be approved by a specialist b handling this product. When there is a risk of ignition from static electricity static protective clothing. For the greatest protection from static discharge should include anti-static overalls, boots and gloves. Refer to European S 1149 for further information on material and design requirements and test	before y, wear anti- es, clothing Standard EN
<b>Other skin protection</b> : Appropriate footwear and any additional skin protection measures should based on the task being performed and the risks involved and should be a specialist before handling this product.	

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AMERLOCK 40	00 C / 400 GFA H	ARD	ENER					
Environmen controls	tal exposure	the ca	nissions from ventilation or vey comply with the requirem ses, fume scrubbers, filters I be necessary to reduce er	ents of environi or engineering	mental protecti modifications	on legislation. In some		
SECTION	9: Physical	and	l chemical properti	es				
The conditions	of measurement	of all	properties are at standard	emperature an	d pressure unl	ess otherwise indicated.		
9.1 Informatio	n on basic phys	ical a	nd chemical properties					
Appearance								
Physical sta	ate	:	: Liquid.					
Colour		:	: Colourless.					
Odour		:	: Amine-like. [Strong]					
Odour thresh	nold	:	: Not available.					
Melting point	t/freezing point	:	<ul> <li>May start to solidify at the following temperature: 8°C (46.4°F) This is based on data for the following ingredient: 3-aminomethyl-3,5,5-trimethylcyclohexylamine. Weighted average: -42.77°C (-45°F)</li> </ul>					
Initial boiling boiling		:	>37.78°C					
Flammability		:	Not available.					
Upper/lower explosive lim	flammability or iits	:	Greatest known range: Lo	wer: 1.3% Upp	er: 13% (benz	yl alcohol)		
Flash point		:	Closed cup: 37°C					
Auto-ignition	temperature	:	Ingredient name	°C	°F	Method		
			Monylphenol, branched	372	701.6	ASTM E 659		
Decompositi	on temperature	:	Stable under recommende	ed storage and	handling condi	tions (see Section 7).		
рН .	-		Not applicable. insoluble ir		-	· , ,		
Viscosity		:	Kinematic (40°C): >21 mn	1²/s				
Viscosity		:	40 - <60 s (ISO 6mm)					
Solubility(ies	<b>N</b>							

Media	Result
cold water	Not soluble

**Partition coefficient: n-octanol/** : Not applicable.

water Vapour pressure

Vapour pressure	:		Vapou	Vapour Pressure at 20°C			Vapour pressure at 50°C	
		Ingredient name	mm Hg	kPa	Method	mm Hg	kPa	Method
		Methylpentan-2-one	15.75128	2.1				
Evaporation rate		Highest known value 0.93compared with b	``		entan-2-one) V	/eighted	average:	
Relative density	:	1.36						
Vapour density		: Highest known value: 15.4 (Air = 1) (1,2-Benzenedicarboxylic acid, di- C9-11-branched alkyl esters, C10-rich). Weighted average: 6.07 (Air = 1)						
Explosive properties		The product itself is not explosive, but the formation of an explosible mixture of vapour or dust with air is possible.						
Oxidising properties	:	Product does not pre	esent an o	xidizing	) hazard.			
Particle characteristics								
Median particle size	:	Not applicable.						
		Eng	lish (GB)		Saudi	Arabia		9/17

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**SECTION 9: Physical and chemical properties** 

### 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.				
10.6 Hazardous decomposition products	: Depending on conditions, decomposition products may include the following materials: carbon oxides nitrogen 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
-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	-
benzyl alcohol	LC50 Inhalation Dusts and	Rat	>4178 mg/m <sup>3</sup>	4 hours
•	mists			
	LD50 Dermal	Rabbit	2000 mg/kg	-
	LD50 Oral	Rat	1.23 g/kg	-
cyclohexanone	LC50 Inhalation Gas.	Rat	8000 ppm	4 hours
	LD50 Dermal	Rabbit	1100 mg/kg	-
	LD50 Oral	Rat	1800 mg/kg	-
3-aminomethyl-	LC50 Inhalation Dusts and	Rat	>5.01 mg/l	4 hours
3,5,5-trimethylcyclohexylamine	mists			
	LD50 Dermal	Rat	>2000 mg/kg	-
	LD50 Oral	Rat	1030 mg/kg	-
4-nonylphenol, branched	LD50 Dermal	Rabbit	2.14 g/kg	-
	LD50 Oral	Rat	1300 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	-
2,4,6-tris(dimethylaminomethyl)phenol	LD50 Dermal	Rat	1280 mg/kg	-
	LD50 Oral	Rat	1200 mg/kg	-
Amines, polyethylenepoly-,	LD50 Dermal	Rabbit	1465 mg/kg	-
triethylenetetramine fraction				
	LD50 Oral	Rat	1716 mg/kg	-
salicylic acid	LD50 Oral	Rat	0.891 g/kg	-

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

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## **SECTION 11: Toxicological information**

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
-nonylphenol, branched	Skin - Erythema/Eschar	Rabbit	4	-	-
Conclusion/Summary					

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

: There are no data available on the mixture itself.

: There are no data available on the mixture itself.

#### Respiratory **Sensitisation**

Product/	ingredient name	Route of exposure	Species	Result	
S-aminomethyl-3,5,5-trimethylcyclohexylamine		skin	Guinea pig	Sensitising	
Conclusion/Summary	у				
Skin	: There are no data available on the mixture itself.				
Respiratory	: There are no data available on the mixture itself.				

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

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

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

**Mutagenicity** 

**Carcinogenicity** 

**Reproductive toxicity** 

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

#### Specific target organ toxicity (single exposure)

Product/ingredient name	Category	Route of exposure	Target organs
4-methylpentan-2-one cyclohexanone 2-methylpropan-1-ol	Category 3 Category 3 Category 3 Category 3	-	Narcotic effects Respiratory tract irritation Respiratory tract irritation Narcotic effects

#### Specific target organ toxicity (repeated exposure)

Product/ingredient name	Category	Route of exposure	Target organs
Fatty acids, tall-oil, reaction products with diethylenetriamine	Category 2	oral	-

#### **Aspiration hazard**

Information on likely

routes of exposure

Not available.

: Not available.

Potential acute health effects

Inhalation	: No known significant effects or critical hazards.
Ingestion	: Corrosive to the digestive tract. Causes burns.
Skin contact	: Causes severe burns. Defatting to the skin. May cause an allergic skin reaction.
Eye contact	: Causes serious eye damage.
Symptoms related to	o the physical, chemical and toxicological characteristics

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SECTIC	N 11: Toxicol	lo	gical information	
Inhalatio	on	:	Adverse symptoms may include the following: reduced foetal weight increase in foetal deaths skeletal malformations	
Ingestio	n	:	Adverse symptoms may include the following: stomach pains reduced foetal weight increase in foetal deaths skeletal malformations	
Skin coi	ntact	:	Adverse symptoms may include the following: pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations	
Eye con	tact	:	Adverse symptoms may include the following: pain watering redness	
		cts	as well as chronic effects from short and long-term exposure	
	<u>rm exposure</u>			
Potent effects	al immediate	:	Not available.	
Potent	al delayed effects	1	Not available.	
Long te	<u>rm exposure</u>			
Potent effects	al immediate	:	Not available.	
Potent	ial delayed effects	:	Not available.	
<b>Potential</b>	chronic health effe	ect	<u>S</u>	
Not availa	able.			
Conclus	ion/Summary		Not available.	
General	,, ,		Prolonged or repeated contact can defat the skin and lead to irritation, cracking a dermatitis. Once sensitized, a severe allergic reaction may occur when subseque exposed to very low levels.	
Carcino	genicity	:	Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.	
Mutagei	nicity	:	No known significant effects or critical hazards.	
	ictive toxicity		Suspected of damaging fertility. Suspected of damaging the unborn child.	
Other info	-		Not available.	

Causes digestive tract burns. 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**

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# **SECTION 11: Toxicological information**

Not available.

# **SECTION 12: Ecological information**

12.1 Toxicity

Code

Product/ingredient name	Result	Species	Exposure
✓-methylpentan-2-one	Acute LC50 >179 mg/l	Fish	96 hours
4-nonylphenol, branched	Acute EC50 0.044 mg/l	Crustaceans - Moina	48 hours
	_	macrocopa	
	Acute LC50 0.221 mg/l	Fish	96 hours
2-methylpropan-1-ol	Acute EC50 1100 mg/l	Daphnia	48 hours
2,4,6-tris(dimethylaminomethyl)phenol	Acute LC50 >100 mg/l	Daphnia	48 hours
	Acute LC50 >100 mg/l	Fish	96 hours
Amines, polyethylenepoly-, triethylenetetramine	Acute EC50 20 mg/l	Aquatic plants -	72 hours
fraction		Daphnia magna	
	Acute EC50 31.1 mg/l	Daphnia - <i>Daphnia</i>	48 hours
		magna	
	Acute LC50 330 mg/l	Fish - Pimephales	96 hours
		promelas	
	Acute NOEC 2.5 mg/l	Crustaceans	72 hours
salicylic acid	Acute EC50 1147.57 mg/l	Daphnia - <i>Daphnia</i>	48 hours
	Fresh water	longispina - Neonate	
	Chronic NOEC 5.6 mg/l	Daphnia - <i>Daphnia</i>	21 days
	Fresh water	<i>magna</i> - Neonate	

Conclusion/Summary

: There are no data available on the mixture itself.

### 12.2 Persistence and degradability

Product/ingredient name	Test	Result	Dose	Inoculum
<ul> <li>4-methylpentan-2-one</li> <li>2,4,6-tris</li> <li>(dimethylaminomethyl)phenol</li> </ul>	OECD 301F OECD 301D Ready Biodegradability - Closed Bottle Test	83 % - Readily - 28 days 4 % - Not readily - 28 days	-	-

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
	-	-	Readily
benzyl alcohol	-	-	Readily
2,4,6-tris(dimethylaminomethyl)phenol	-	-	Not readily

#### **12.3 Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
	1.9	-	Low
benzyl alcohol	0.87	-	Low
cyclohexanone	0.86	-	Low
3-aminomethyl-3,5,5-trimethylcyclohexylamine	0.99	-	Low
4-nonylphenol, branched	5.4	251.19	Low
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with 3-aminomethyl- 3,5,5-trimethylcyclohexylamine	-	5.13	Low
2-methylpropan-1-ol	1	-	Low
2,4,6-tris(dimethylaminomethyl)phenol	0.219	-	Low
	English (GB)	Saudi Arabia	13/17

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Amines, fraction	polyethylenepoly-, triethylenetetramine	-2.65	-	Low
salicylic acid 2.21 to 2.26 - Low		Low		

#### 12.4 Mobility in soil

Soil/water partition coefficient (Koc)	: Not available.
Mobility	: Not available.

#### 12.5 Results of PBT and vPvB assessment

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

#### 12.6 Endocrine disrupting properties

May cause endocrine disruption.

#### 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

<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 (EWC)</u>

Waste code	Waste designation	
08 01 11*	waste paint and varnish containing organic solvents or other hazardous substances	
Packaging		
Methods of disposal	<ul> <li>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.</li> </ul>	
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.	

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## **SECTION 14: Transport information**

	ADR/RID	IMDG	IATA
14.1 UN number or ID number	UN3469	UN3469	UN3469
14.2 UN proper shipping name	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE	PAINT RELATED MATERIAL, FLAMMABLE, CORROSIVE
14.3 Transport hazard class(es)	3 (8)	3 (8)	3 (8)
14.4 Packing group	Ш	Ш	Ш
14.5 Environmental hazards	Yes.	Yes.	Yes. The environmentally hazardous substance mark is not required.
Marine pollutant substances	Not applicable.	(4-nonylphenol, branched)	Not applicable.

### **Additional information**

ADR/RID	<ul> <li>The environmentally hazardous substance mark is not required when transported in sizes of ≤5 L or ≤5 kg.</li> </ul>
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 IM	

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

Intrinsic property	Ingredient name	Status	Reference number	Date of revision
Indocrine disrupting properties 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	Candidate	ED/169/2012	12/19/2012

English (GB) Saudi Arabia	

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SECTIO	ON 15: Regul	atory information			
Annex	KVII - Restrictions				
	nanufacture, on the market				
	e of certain				
	ous substances, s and articles				
		ational regulations.			
	/e precursors	: Not applicable. ces (1005/2009/EU)			
Not liste	-	<u>ces (1003/2009/E0)</u>			
15.2 Chei assessmo	nical safety ent	: No Chemical Safety As	ssessment has been carrie	ed out.	
SECTIO	ON 16: Other	information			
		has changed from previous	•		
Abbreviat		: ATE = Acute Toxicity	Estimate ₋abelling and Packaging R		tion (EC) No
acronyms		1272/2008]		egulation [Regula	
	DNEL = Derived No E				
		EUH statement = CLF PNEC = Predicted No	P-specific Hazard statemen	it	
		RRN = REACH Regis			
	f abbreviated H		nable liquid and vapour.		
statements		H226 Flammable H302 Harmful if sv	iquid and vapour.		
			ontact with skin.		
			ere skin burns and eye dar	nage.	
		H315 Causes skin H317 May cause a	an allergic skin reaction.		
		H318 Causes seri	ous eye damage.		
		H319 Causes seri H332 Harmful if in	ous eye irritation.		
			espiratory irritation.		
		H336 May cause of	rowsiness or dizziness.		
			of causing cancer. If damaging the unborn ch	ild	
		•	of damaging fertility. Suspe		the unborn child.
		-	lamage to organs through	prolonged or repe	eated exposure.
		H400 Very toxic to H410 Very toxic to	aquatic life with long lastir	na effects.	
		H412 Harmful to a	quatic life with long lasting	effects.	
			kposure may cause skin dr		
	f classifications	: Acute Tox. 4 Aquatic Acute 1	ACUTE TOXICITY - SHORT-TERM (ACL		
[CLP/GHS]	u	Aquatic Chronic 1			HAZARD - Category 1
		Aquatic Chronic 3			HAZARD - Category 3
		Carc. 2 Eye Dam. 1	CARCINOGENICITY SERIOUS EYE DAM		TION - Category 1
		Eye Irrit. 2	SERIOUS EYE DAM		
		Flam. Liq. 2	FLAMMABLE LIQUI		
		Flam. Liq. 3 Repr. 2	FLAMMABLE LIQUII REPRODUCTIVE TO		rv 2
		Skin Corr. 1B	SKIN CORROSION/	IRRITATION - Ča	tegory 1B
		Skin Corr. 1C	SKIN CORROSION/	IRRITATION - Ca	tegory 1C
		E	nglish (GB)	Saudi Arabia	16/17

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SECTION 16: Othe	r information			
	Skin Irrit. 2 Skin Sens. 1 Skin Sens. 1A STOT RE 2 STOT SE 3	SKIN CORROSION/IRRITATION - SKIN SENSITISATION - Category SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TOXI EXPOSURE - Category 2 SPECIFIC TARGET ORGAN TOXI EXPOSURE - Category 3	1 1A ICITY - REPEATED	
<u>History</u> Date of issue/ Date of revision	: 12 September 2024			
Date of previous issue	: 9 August 2023			
Prepared by	: EHS			
Version	: 5.01			
<u>Disclaimer</u>				

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