SAFETY DATA SHEET

Date of issue/Date of revision

: 20 September 2022 Version : 2



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

| 1.1 Product identifier | |
|---|---|
| Product name | : SIGMACOVER 246/410/430 LT HARDENER |
| Product code | : 00444780 |
| Product type | : Liquid. |
| 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 : 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 Repr. 2, H361fd STOT SE 3, H335 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 : 00444780 | Date of issue/Date of revision : 20 September 2022 |
| SIGMACOVER 246/410/430 L | |
| SECTION 2: Hazards | identification |
| Hazard pictograms | |
| | |
| Signal word | : Danger |
| Hazard statements | : Flammable liquid and vapour. |
| | Causes severe skin burns and eye damage. May cause an allergic skin reaction. |
| | May cause respiratory irritation. |
| | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| Precautionary statements | Very toxic to aquatic life with long lasting effects. |
| 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 | : 🖉ollect spillage. |
| Storage | : Store in a well-ventilated place. Keep container tightly closed. |
| Disposal | : D ispose of contents and container in accordance with all local, regional, national and international regulations. |
| Hazardous ingredients | xylene 4-nonylphenol, branched Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine 3,6-diazaoctanethylenediamin |
| Supplemental label elements | : Not applicable. |
| Annex XVII - Restrictions | : Not applicable. |
| on the manufacture, placing on the market and | |
| use of certain dangerous | |
| substances, mixtures and articles | |
| Special packaging requiren | nents |
| 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 | : 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 | : Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. |
| | |

Date of issue/Date of revision

: 20 September 2022

SIGMACOVER 246/410/430 LT HARDENER

: 00444780

Code

SECTION 3: Composition/information on ingredients

| 3.2 Mixtures | : Mixture | | | | |
|---|---|-------------|---|---|---------|
| Product/ingredient name | Identifiers | % | Classification | Specific Conc. Limits, M-factors and ATEs | Туре |
| vylene | REACH #: 01-2119488216-32 EC: 215-535-7 CAS: 1330-20-7 Index: 601-022-00-9 | ≥25 - ≤49 | 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 | ATE [Dermal] = 1700 mg/kg ATE [Inhalation (vapours)] = 11 mg/l | [1] [2] |
| 4-nonylphenol, branched | REACH #: 01-2119510715-45 EC: 284-325-5 CAS: 84852-15-3 Index: 601-053-00-8 | ≥10 - ≤25 | 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] |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | REACH #: 01-2119972320-44 EC: 500-191-5 CAS: 68082-29-1 | ≥10 - ≤25 | Skin Irrit. 2, H315 Eye Dam. 1, H318 Skin Sens. 1A, H317 Aquatic Chronic 2, H411 | - | [1] |
| 2-methylpropan-1-ol | REACH #: 01-2119484609-23 EC: 201-148-0 CAS: 78-83-1 Index: 603-108-00-1 | ≥10 - <20 | Flam. Liq. 3, H226 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT SE 3, H335 STOT SE 3, H336 | - | [1] [2] |
| Formaldehyde, polymer with N,N-dimethyl- 1,3-propanediamine and phenol | CAS: 445498-00-0 | ≥5.0 - ≤8.7 | Acute Tox. 4, H302 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 | ATE [Oral] = 500 mg/ kg M [Acute] = 1 M [Chronic] = 1 | [1] |
| 2,4,6-tris (dimethylaminomethyl) phenol | REACH #: 01-2119560597-27 EC: 202-013-9 CAS: 90-72-2 Index: 603-069-00-0 | ≥5.0 - ≤8.5 | Acute Tox. 4, H302 Acute Tox. 4, H312 Skin Corr. 1C, H314 Eye Dam. 1, H318 | ATE [Oral] = 1200 mg/ kg ATE [Dermal] = 1280 mg/kg | [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] |
| 3,6-diazaoctanethylenediamin | EC: 203-950-6 CAS: 112-24-3 Index: 612-059-00-5 | ≥1.0 - ≤3.2 | 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] [2] |
| bis[(dimethylamino)methyl] phenol | EC: 275-162-0 CAS: 71074-89-0 | ≥1.0 - ≤5.0 | Skin Corr. 1B, H314 Eye Dam. 1, H318 | - | [1] |
| toluene | REACH #: | ≤0.30 | Flam. Liq. 2, H225 | - | [1] [2] |
| | | English | (GB) United Arab Er | nirates | 3/17 |

| Code : 00444780 | Date of issue/Date of revision | : 20 September 2022 |
|---|---|---------------------|
| SIGMACOVER 246/410/430 LT HARDENER | | |
| SECTION 3: Composition/information | on ingredients | |
| 01-2119471310-51 EC: 203-625-9 CAS: 108-88-3 Index: 601-021-00-3 | Skin Irrit. 2, H315 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 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

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 | : 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 effects

| Eye contact | : Causes serious eye damage. |
|---------------------|--|
| Inhalation | : May cause respiratory irritation. |
| 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 | /symptoms |

Eye contact : Adverse symptoms may include the following: pain watering redness

| Conforms to Regulation (EC | No. 1907/2006 (REACH), Anne | x II | |
|------------------------------|--|---|---------------------|
| Code : 00444780 | D | ate of issue/Date of revision | : 20 September 2022 |
| SIGMACOVER 246/410/430 L | T HARDENER | | |
| SECTION 4: First aid | measures | | |
| Inhalation | : Adverse symptoms may ind respiratory tract irritation coughing reduced foetal weight increase in foetal deaths skeletal malformations | clude the following: | |
| Skin contact | : Adverse symptoms may inc pain or irritation redness dryness cracking blistering may occur reduced foetal weight increase in foetal deaths skeletal malformations | lude the following: | |
| Ingestion | : Adverse symptoms may inc stomach pains reduced foetal weight increase in foetal deaths skeletal malformations | lude the following: | |
| 4.3 Indication of any immed | ate medical attention and spe | cial treatment needed | |
| Notes to physician | | mposition products in a fire, sympt eed to be kept under medical surve | |
| Specific treatments | : No specific treatment. | | |
| SECTION 5: Firefigh | ting measures | | |
| 5.1 Extinguishing media | | | |
| Suitable extinguishing media | : Use dry chemical, CO ₂ , wat | er spray (fog) or foam. | |
| Unsuitable extinguishing | : Do not use water jet. | | |

5.2 Special hazards arising from the substance or mixture

media

| • • • | |
|---|---|
| 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 |
| 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: 00444780Date of issue/Date of revision: 20 Set

SIGMACOVER 246/410/430 LT HARDENER

: 20 September 2022

SECTION 6: Accidental release measures

| 6.1 Personal precautions, pro | tective equipment and emergency procedures |
|---------------------------------|--|
| For non-emergency personnel | : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through 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 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. |

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. 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.

| Conforms | s to Regulation (EC |) No. 1907/2006 (REACH), Annex II |
|----------|---|--|
| Code | : 00444780 | Date of issue/Date of revision: 20 September2022 |
| SIGMAC | OVER 246/410/430 | _T HARDENER |
| SECTI | ON 7: Handlir | ig and storage |
| | on general tional 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. |
| | litions for safe including any tibilities | : 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 2 5000 | ific and usa(s) | |

7.3 Specific end use(s)

See Section 1.2 for Identified uses.

Recommendations: Not available.Industrial sector specific: Not available.solutions: Not available.

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 |
|------------------------------|--|
| x ylene | EU OEL (Europe, 10/2019). [xylene, mixed isomers] Absorbed |
| | through skin. |
| | STEL: 442 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 221 mg/m ³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| 2-methylpropan-1-ol | ACGIH TLV (United States, 1/2021). |
| | TWA: 152 mg/m³ 8 hours. |
| | TWA: 50 ppm 8 hours. |
| ethylbenzene | EU OEL (Europe, 10/2019). Absorbed through skin. |
| | STEL: 884 mg/m ³ 15 minutes. |
| | STEL: 200 ppm 15 minutes. |
| | TWA: 442 mg/m³ 8 hours. |
| | TWA: 100 ppm 8 hours. |
| 3,6-diazaoctanethylenediamin | IPEL (-). Absorbed through skin. |
| | TWA: 1 ppm |
| toluene | EU OEL (Europe, 10/2019). Absorbed through skin. |
| | STEL: 384 mg/m ³ 15 minutes. |
| | STEL: 100 ppm 15 minutes. |
| | TWA: 192 mg/m³ 8 hours. |
| | TWA: 50 ppm 8 hours. |

| Conforms to Regulation (EC) | No. 1907/2006 (REACH), Annex II | |
|--|--|---|
| Code : 00444780 | Date of issue/Date of revision | : 20 September 2022 |
| SIGMACOVER 246/410/430 L | THARDENER | |
| SECTION 8: Exposur | e controls/personal protection | |
| Recommended monitoring procedures | : If this product contains ingredients with exposure limits, personal atmosphere or biological monitoring may be required to determin the ventilation or other control measures and/or the necessity to a protective equipment. Reference should be made to monitoring a following: European Standard EN 689 (Workplace atmospheres assessment of exposure by inhalation to chemical agents for con values and measurement strategy) European Standard EN 1404 atmospheres - Guide for the application and use of procedures for exposure to chemical and biological agents) European Standard atmospheres - General requirements for the performance of procedures for measurement of chemical agents) Reference to national guidance methods for the determination of hazardous substances will also | e the effectiveness of use respiratory standards, such as the - Guidance for the parison with limit -2 (Workplace or the assessment of EN 482 (Workplace cedures for the ce documents for |
| 8.2 Exposure controls | | |
| Appropriate engineering controls | : Use only with adequate ventilation. Use process enclosures, loca other engineering controls to keep worker exposure to airborne c recommended or statutory limits. The engineering controls also rvapour or dust concentrations below any lower explosive limits. I ventilation equipment. | ontaminants below any need to keep gas, |
| Individual protection measured | | a luna duata da fana |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemic eating, smoking and using the lavatory and at the end of the work Appropriate techniques should be used to remove potentially con Contaminated work clothing should not be allowed out of the wor contaminated clothing before reusing. Ensure that eyewash stati showers are close to the workstation location. | king period. taminated clothing. kplace. Wash |
| Eye/face protection Skin protection | : Chemical splash goggles and face shield. | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approve worn at all times when handling chemical products if a risk asses necessary. Considering the parameters specified by the glove m during use that the gloves are still retaining their protective prope noted that the time to breakthrough for any glove material may be glove manufacturers. In the case of mixtures, consisting of seven protection time of the gloves cannot be accurately estimated. Wh frequently repeated contact may occur, a glove with a protection of (breakthrough time greater than 480 minutes according to EN 374 When only brief contact is expected, a glove with a protection cla (breakthrough time greater than 30 minutes according to EN 374 The user must check that the final choice of type of glove selecte product is the most appropriate and takes into account the particu- as included in the user's risk assessment. | sment indicates this is anufacturer, check rties. It should be different for different ral substances, the nen prolonged or class of 6 4) is recommended. ss of 2 or higher) is recommended. d for handling this |
| Gloves | : butyl rubber | |
| Body protection | : Personal protective equipment for the body should be selected by performed and the risks involved and should be approved by a sp handling this product. When there is a risk of ignition from static static protective clothing. For the greatest protection from static of should include anti-static overalls, boots and gloves. Refer to Eu 1149 for further information on material and design requirements | becialist before electricity, wear anti- discharges, clothing ropean Standard EN |
| Other skin protection | Appropriate footwear and any additional skin protection measures based on the task being performed and the risks involved and sh specialist before handling this product. | |
| Respiratory protection | : | |

8/17

| Code : 00444780 | No. 1907/2006 (REACH), Annex II Date of issue/Date of revision 20 September 2022 |
|---------------------------------|--|
| SIGMACOVER 246/410/430 L | HARDENER |
| SECTION 8: Exposur | e controls/personal 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 measuremen | t of all properties are at standard temperature and pressure unless otherwise indicated. |
| 9.1 Information on basic phy | sical and chemical properties |

| <u>Appearance</u> | | | | | | | | |
|---|---------------------------------|--|-----------------------------------|-------------------------|---|-----------------|------------|------------------------|
| Physical state | : | Liquid. | | | | | | |
| Colour | 1 | Not available. | | | | | | |
| Odour | : | Aromatic. | | | | | | |
| Odour threshold | 1 | Not available. | | | | | | |
| Melting point/freezing point | | May start to solidify at the following temperature: $12^{\circ}C$ (53.6°F) This is based on data for the following ingredient: 3,6-diazaoctanethylenediamin. Weighted average: -63.5°C (-82.3°F) | | | | | | |
| Initial boiling point and boiling range | : | >37.78°C | | | | | | |
| Flammability (solid, gas) | : | liquid | | | | | | |
| Upper/lower flammability or explosive limits | 1 | Greatest known rang | ge: Lower: | : 1.7% l | Jpper: 10.9% | 6 (2-meth | ylpropan-1 | I-ol) |
| Auto-ignition temperature | : | Ingredient name | | °C | °F | | Method | |
| | | 3,6-diazaoctanethylened | iamin | 337.78 | 640 | | | |
| | | | | | | | | |
| Decomposition temperature | : | Stable under recomr | mended st | torage a | nd handling | condition | s (see Sec | tion 7). |
| | | Stable under recomr insoluble in water. | mended st | torage a | nd handling | conditions | s (see Sec | tion 7). |
| oH Viscosity | : i | | | torage a | nd handling | conditions | s (see Sec | tion 7). |
| oH /iscosity Solubility(ies) | : i | insoluble in water. Kinematic (40°C): >2 | | torage a | nd handling | conditions | s (see Sec | ction 7). |
| oH /iscosity | : i | insoluble in water. | | torage a | nd handling | conditions | s (see Sec | tion 7). |
| Decomposition temperature pH Viscosity Solubility(ies) Media Fold water | : i | insoluble in water. Kinematic (40°C): >2 | | torage a | nd handling | conditions | s (see Sec | tion 7). |
| pH Viscosity Solubility(ies) Media | : : | insoluble in water. Kinematic (40°C): >2 Result Not soluble | | torage a | nd handling | conditions | s (see Sec | tion 7). |
| pH Viscosity Solubility(ies) Media Fold water Partition coefficient: n-octanol/ | : : | insoluble in water. Kinematic (40°C): >2 Result Not soluble Not applicable. | 21 mm²/s | | nd handling | | · | tion 7). |
| oH Viscosity Solubility(ies) Media Fold water Partition coefficient: n-octanol/ water | : : | insoluble in water. Kinematic (40°C): >2 Result Not soluble | 21 mm²/s | ur Press | | | · | |
| oH Viscosity Solubility(ies) Media Fold water Partition coefficient: n-octanol/ water | : : | insoluble in water. Kinematic (40°C): >2 Result Not soluble Not applicable. | 21 mm²/s Vapou | ur Press | sure at 20°C | Vap mm | oour press | sure at 50°C |
| oH Viscosity Solubility(ies) Media Fold water Partition coefficient: n-octanol/ water | : i : : : : : : : | insoluble in water. Kinematic (40°C): >2 Result Not soluble Not applicable. | 21 mm²/s Vapou mm Hg <12 | ur Press kPa <1.6 | Sure at 20°C Method DIN EN 13016-2 | Vap mm Hg | bour press | sure at 50°(Method |

- Vapour density: Highest known value: 7.59 (Air = 1) (4-nonylphenol, branched). Weighted average:
4.68 (Air = 1)
- **Explosive properties** : Product does not present an explosion hazard.
- **Oxidising properties** : Product does not present an oxidizing hazard.
 - English (GB) United Arab Emirates

| Conforms to Regulation (EC) |) No. 1907/2006 (REACH), Annex II | |
|--|--|-------|
| Code : 00444780 | Date of issue/Date of revision : 20 September 2022 | r |
| SIGMACOVER 246/410/430 L | T HARDENER | |
| SECTION 9: Physica | l and chemical properties | |
| Particle characteristics | | |
| Median particle size | : Not applicable. | |
| 9.2 Other information | | |
| No additional information. | | |
| SECTION 10: Stabilit | ty 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 produce Refer to protective measures listed in sections 7 and 8. | ucts. |
| 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 materi carbon oxides nitrogen oxides | ials: |

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|---|------------------------|---------|---------------------|----------|
| xylene | LD50 Dermal | Rabbit | 1.7 g/kg | - |
| - | LD50 Oral | Rat | 4.3 g/kg | - |
| 4-nonylphenol, branched | LD50 Dermal | Rabbit | 2.14 g/kg | - |
| | LD50 Oral | Rat | 1300 mg/kg | - |
| Fatty acids, C18-unsatd., dimers, | LD50 Dermal | Rat | >2000 mg/kg | - |
| oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | | | |
| , | 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 | - |
| 2,4,6-tris(dimethylaminomethyl)phenol | LD50 Dermal | Rabbit | 1.28 g/kg | - |
| | LD50 Dermal | Rat | 1280 mg/kg | - |
| | LD50 Oral | Rat | 1200 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 | - |
| 3,6-diazaoctanethylenediamin | LD50 Dermal | Rabbit | 1465 mg/kg | - |
| | LD50 Oral | Rat | 1716 mg/kg | - |
| toluene | LC50 Inhalation Vapour | Rat | 49 g/m ³ | 4 hours |
| | LD50 Dermal | Rabbit | 8.39 g/kg | - |
| | LD50 Oral | Rat | 5580 mg/kg | - |

Conclusion/Summary Irritation/Corrosion

: There are no data available on the mixture itself.

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| ode : 00444780 | Date of i | issue/Date | of revisi | on : 20 Se 2022 | ptember |
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| SIGMACOVER 246/410/430 LT HARDENER | | | | | |
| SECTION 11: Toxicological ir | nformation | | | | |
| Product/ingredient name | Result | Species | Score | Exposure | Observation |
| X lene | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| 4-nonylphenol, branched | Skin - Erythema/Eschar | Rabbit | 4 | - | - |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | Eyes - Severe irritant | Rabbit | - | - | - |
| | Skin - Irritant | Human | - | - | - |
| 2,4,6-tris(dimethylaminomethyl)phenol | Skin - Visible necrosis | Rabbit | - | 4 hours | 7 days |

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

Sensitisation

| Product/ingredient name | Route of exposure | Species | Result |
|---|-------------------|------------|-------------|
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | skin | Mouse | Sensitising |
| 3,6-diazaoctanethylenediamin | skin | Guinea pig | Sensitising |

| 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 | city (single exposure) |

| Product/ingredient name | Category | Route of exposure | Target organs |
|-------------------------|------------|-------------------|------------------------------|
| xylene | Category 3 | - | Respiratory tract irritation |
| 2-methylpropan-1-ol | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| toluene | Category 3 | - | Narcotic effects |

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

| Product/ingredient name | Result |
|-------------------------|--------------------------------|
| xylene | ASPIRATION HAZARD - Category 1 |
| ethylbenzene | ASPIRATION HAZARD - Category 1 |
| toluene | ASPIRATION HAZARD - Category 1 |

Information on likely : Not available. routes of exposure

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| Conforms to Regulation (EC) | No | . 1907/2006 (REACH), Annex II |
|--|-----|---|
| Code : 00444780 | | Date of issue/Date of revision: 20 September 2022 |
| SIGMACOVER 246/410/430 L1 | ΓH | ARDENER |
| SECTION 11: Toxicol | lo | gical information |
| Potential acute health effect | ts | |
| Inhalation | 1 | May cause respiratory irritation. |
| Ingestion | 4 | Corrosive to the digestive tract. Causes burns. |
| Skin contact | 4 | Causes severe burns. Defatting to the skin. May cause an allergic skin reaction. |
| Eye contact | 1 | Causes serious eye damage. |
| Symptoms related to the ph | ys | ical, chemical and toxicological characteristics |
| Inhalation | : | Adverse symptoms may include the following: respiratory tract irritation coughing 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 |
| 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 |
| Eye contact | : | Adverse symptoms may include the following: pain watering redness |
| Delayed and immediate effe | cts | as well as chronic effects from short and long-term exposure |
| <u>Short term exposure</u> | | |
| Potential immediate effects | 1 | Not available. |
| Potential delayed effects | : | Not available. |
| Long term exposure Potential immediate effects | : | Not available. |
| Potential delayed effects | ÷ | Not available. |
| Potential chronic health effe | ect | <u>S</u> |
| Not available. | | |
| Conclusion/Summary | | Not available. |
| General | | Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | 1 | No known significant effects or critical hazards. |
| Mutagenicity | 1 | No known significant effects or critical hazards. |
| Reproductive toxicity | : | Suspected of damaging fertility. Suspected of damaging the unborn child. |
| Other information | : | Not available. |
| | | |

Date of issue/Date of revision

: 20 September 2022

SIGMACOVER 246/410/430 LT HARDENER

: 00444780

SECTION 11: Toxicological information

Causes digestive tract burns. Prolonged or repeated contact may dry skin and cause irritation. 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.

Code

11.2.2 Other information

Not available.

SECTION 12: Ecological information

12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---------------------------------|----------------------------------|----------|
| [#] -nonylphenol, branched | Acute EC50 0.044 mg/l | Crustaceans - Moina macrocopa | 48 hours |
| | Acute LC50 0.221 mg/l | Fish | 96 hours |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | EC10 1.78 mg/l | Algae | 72 hours |
| 2-methylpropan-1-ol | Acute EC50 1100 mg/l | Daphnia | 48 hours |
| 2,4,6-tris(dimethylaminomethyl)phenol | Acute LC50 175 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 | - |

Conclusion/Summary

: There are no data available on the mixture itself.

12.2 Persistence and degradability

| Product/ingredient name | Test | Result | | Dose | Inoculum | |
|---|---|--------------------------|-------|-------|------------------------|--|
| ethylbenzene | - | 79 % - Readily - 10 days | | - | - | |
| Conclusion/Summary | Conclusion/Summary : There are no data available on the mixture itself. | | | | | |
| Product/ingredient name | | Aquatic half-life | Photo | lysis | Biodegradability | |
| Fatty acids, C18-unsatd., dimers, oligomeric reaction products with tall-oil fatty acids and triethylenetetramine | | - | - | | Readily Not readily | |
| ethylbenzene toluene | | - | - | | Readily Readily | |

12.3 Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---------------------------------------|---------------|-------------|-----------|
| X lene | 3.12 | 7.4 to 18.5 | low |
| 4-nonylphenol, branched | 5.4 | 251.19 | low |
| 2-methylpropan-1-ol | 1 | - | low |
| 2,4,6-tris(dimethylaminomethyl)phenol | 0.219 | - | low |
| ethylbenzene | 3.6 | 79.43 | low |
| 3,6-diazaoctanethylenediamin | -1.66 to -1.4 | - | low |
| toluene | 2.73 | 8.32 | low |

12.4 Mobility in soil

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| Date of issue/Date of revision | : 20 September 2022 | | | | |
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SECTION 12: Ecological information

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

 \mathbf{M} ay 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

| 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 catalog | <u>ie (EWC)</u> |
| 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 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. |
| | drains and sewers. |

Date of issue/Date of revision

: 20 September 2022

SIGMACOVER 246/410/430 LT HARDENER

: 00444780

Code

SECTION 14: Transport information

| | ADR/RID | IMDG | ΙΑΤΑ |
|------------------------------------|--------------------------------|---|--|
| 14.1 UN number or ID number | UN3470 | UN3470 | UN3470 |
| 14.2 UN proper shipping name | PAINT, CORROSIVE, FLAMMABLE | PAINT, CORROSIVE, FLAMMABLE | PAINT, CORROSIVE, FLAMMABLE |
| 14.3 Transport hazard class(es) | 8 (3) | 8 (3) | 8 (3) |
| 14.4 Packing group | П | 11 | Ξ |
| 14.5 Environmental hazards | Yes. | Yes. | Yes. The environmentally hazardous substance mark is not required. |
| Marine pollutant substances | Not applicable. | (4-nonylphenol, branched, Polyamide) | 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 ≤5 L or ≤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 i according to IM | |

instruments

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 |
|---|--|-----------|---------------------|------------------|
| 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 |

| Code : 0044780 Date of issue/Date of revision : 20 September 2022 SIGMACOVER 246/410/430 LT HARDENER | Conforms to Regulation (EC | c) No. 1907/2006 (REAC | CH), Annex II | | |
|--|---|---|--|---|--|
| SECTION 15: Regulatory information Annex XVII - Restrictions : Not applicable. on the manufacture, placing on the market and use of cortain danggrous substances, mixtures and articles : Not applicable. Other national and intermational regulations. : Zone depleting substances (1005/2009/EU) Not listed. 15.2 Chemical safety : No Chemical Safety Assessment has been carried out. assessment : ATE - Acute Toxicity Estimate acronyms SECTION 16: Other information : ATE - Acute Toxicity Estimate current Society (2008) DIME - Derived No Effect Level EUH statement - CUP-apocific Hazard statement PNEC = Predicted No Effect Level EUH statement - CUP-apocific Hazard statement PNEC = Predicted No Effect Level Hammable liquid and vapour. Full text of abbreviated H statements : H225 Highly flammable liquid and vapour. H316 Causes serious eve demarge. : H316 H316 Causes serious eve demarge. : H316 H316 Causes serious eve demarge. : H318 H318 Causes serious eve demarging the unborn child. H338 May cause drowsiness or dizziness. H316 Causes serious eve demarging the unborn child. H318 Causes serious eve demarging dunborn child. H338 | Code : 00444780 | | Date of issu | e/Date of revision | |
| Annex XVI - Restrictions : Not applicable. on the manufacture, placing on the market and use of cortain dangerous substances, mixtures and articles Other national and international regulations. Other national and international regulations. 2000 SECTION 16: Other information ************************************ | SIGMACOVER 246/410/430 | LT HARDENER | | | |
| on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles Other national and international regulations. Zeno deplacing 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 has changed from previously issued version. Abbreviations and acronyms : ATE = Acute Toxicity Estimate acronyms : Attended No Effect Lovel EUH statement = CUP-specific Hazard statement PNEC = Predicad No Effect Concentration RRN = REACH Registration Number Full text of abbreviated H : H225 Highly Tammable liquid and vapour. H332 Harmful if availowed and enters airways. H334 Causes serious eye damage. H335 Causes serious eye damage. H336 May cause aerous eye damage. H337 May cause aerous eye damage. H338 May cause drowshees or dizzines. H339 Causes serious eye dimaging the unborn child. H331 May cause drowshees or dizzines. H3410 Suspected of damaging thertilty. Suspected of damaging the unborn child. H331 May cause drowshees or dizzines. H410 Very toxic to aquatic life with long lasting effects. H411 Harmful to a | SECTION 15: Regul | atory informatio | n | | |
| Ozone depleting substances (1005/2009/EU) Not listed. 15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out. SECTION 16: Other information //////////////////////////////////// | on the manufacture, placing on the market and use of certain dangerous substances, | Not applicable. | | | |
| Not listed. 15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out. SECTION 16: Other information Image: Information that has changed from previously issued version. Abbreviations and acronyms : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] 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 Full text of abbreviation H statements : H225 Full text of abbreviation H statements : H226 Full text of abbreviation H statements : H226 H314 Causes severe skin burns and eye damage. H315 Gauses serious eye damage. H316 Causes serious eye damage. H317 May cause drowsiness or dizziness. H318 Suspected of damaging the unborn child. H336 H335 May cause drowsines or dizziness. H316 H314 Couse seripitatory initation. H336 H337 May cause drowsines or dizziness. H316 H336 Suspected of damaging the unborn child. H337 H337 Way cause damage to regans through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects. H411 | Other national and interna | tional regulations. | | | |
| 15.2 Chemical safety assessment : No Chemical Safety Assessment has been carried out. SECTION 16: Other information If indicates information that has changed from previously issued version. Abbroviations and acronyms : At E = 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 = Prediced No Effect Concentration RRN = REACH Registration Number Full text of abbreviated H statements : H225 Flammable liquid and vapour. H322 Flammable liquid and vapour. H324 Flammable liquid and vapour. H325 Flammable liquid and vapour. H326 Causes serious eye damage. H336 Causes serious eye damage. H337 Causes serious eye damage. H338 Causes serious eye damage. H339 Causes serious eye intitation. H338 May cause respiratory initation. H338 May cause respiratory initation. H336 May cause drowsiness or dizziness. H3410 Very toxic to aquatic life with long lasting effects. H410 Very toxic to aquatic life with long lasting effects. H411 Toxic to quatalic life with long lasting effects. H412 Hammilu to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H412 Hammilu to aquatic life with long lasting effects. H411 Hammilu to aquatic life with long lasting effects. H412 Hammilu to aquatic life with long lasting effects. H413 Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 4 Aquatic Acute 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 Rep Linu. Liq. 2 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 2 Flam. Liq. 3 FLAMMABLE LIQUIDS - Category 2 Skin Corr. 18 Skin CORROSION/IRRITATION | Ozone depleting substan | <u>ces (1005/2009/EU)</u> | | | |
| assessment SECTION 16: Other information Indicates information that has changed from previously issued version. Abbreviations and acronyms : ATE = Acute Toxicity Estimate CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008] DNEL = Derived No Effect Level EUH statement = CLP-specific Hazard statement PNCC = Predicet No Effect Concentration RRN = REACH Registration Number Full text of abbreviated H H225 Highly flammable liquid and vapour. H302 Harmful if swallowed. H304 May be fall if swallowed. H315 Causes serious eye damage. H316 Causes serious eye damage. H317 May cause respiratory irritation. H318 Causes serious eye damage. H319 Causes serious eye damage. H319 Causes damage to organs through prolonged or repeated exposure. H00 Very toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Harmful if serifiely. Suppected of damaging leftects. H412 Harmfu | Not listed. | | | | |
| Functions 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. H304 Hay be fatal if swallowed. H304 H314 Causes servers skin burns and eye damage. H315 Causes servers skin burns and eye damage. H316 Causes servers skin burns and eye damage. H316 H314 Causes servers skin burns and eye damage. H315 Causes serious eye irritation. H332 H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child. H335 H361d Suspected of damaging fertility. Suspected of damaging the unborn child. H361d H361d Suspected of damaging fertility. Suspected of damaging effects. H410 H411 Toxic to aquatic life with long lasting effects. H412 H4110 Very toxic to aquatic life with long lasting effects. H412 H4111 Toxic to aquatic life with long lasting effects. H412 H4111 Toxic to aquatic life with long lasting effects. H412 H4110 Very toxic to aquatic life with long lasting effects. H412 H4111 | | : No Chemical Safet | y Assessment has be | een carried out. | |
| 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 filammable liquid and vapour. H226 Flammable liquid and vapour. H322 Harmful if swallowed. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes serious eye damage. H315 Causes serious eye damage. H316 Causes serious eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H317 May cause drowsiness or dizzness. H3161 Suspected of damaging flet unborn child. H36161 Suspected of damaging flet unborn child. H36171 Suspected of damaging flet with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquatic life with long lasting effects. H411 Toxic to aquati | SECTION 16: Other | information | | | |
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| Full text of abbreviated H : H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H226 Hammful if swallowed. H304 May be fatal if swallowed and enters airways. H312 Harmful if swallowed and enters airways. H314 Causes severe skin burns and eye damage. H315 Causes severe skin burns and eye damage. H316 Causes severe skin burns and eye damage. H317 May cause an allergic skin reaction. H318 Causes serious eye irmitation. H336 May cause drowsiness or dizziness. H3616 Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. 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. H411 SHORT: CAUED ANDAGE/EYE LIRITATION - Category 4 Aquatic Acute 1 SHORT: TERM (CHRONIC) AQUATIC HAZARD - Category Aquatic Chronic 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category Aquatic Chronic 2 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 2 As | Abbreviations and | : ATE = Acute Toxic CLP = Classificatio 1272/2008] DNEL = Derived N EUH statement = 0 PNEC = Predicted | city Estimate on, Labelling and Pac lo Effect Level CLP-specific Hazard No Effect Concentra | kaging Regulation [Reູ statement | gulation (EC) No. |
| [CLP/GHS]Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 2 Aquatic Chronic 3 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2SHORT-TERM (ACUTE) AQUATIC HAZARD - Category AOUATIC HAZARD - Category LONG-TERM (CHRONIC) AQUATIC HAZARD - Category AQUATIC HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2SHORT-TERM (ACUTE) AQUATIC HAZARD - Category ASP. Tox. 1 ASPIRATION HAZARD - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Flam. Liq. 3 Repr. 2Flam. Liq. 3 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 Skin Sens. 1SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 2 SKIN SENSITISATION - Category 1 SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2 Skin Sens. 1 | | H226FlammalH302HarmfulH304May be fH312HarmfulH314CausesH315CausesH317May cauH318CausesH319CausesH32HarmfulH335May cauH361dSuspecteH361dSuspecteH373May cauH400Very toxiH410Very toxiH411Toxic to | ble liquid and vapour if swallowed. fatal if swallowed and in contact with skin. severe skin burns an skin irritation. se an allergic skin re- serious eye damage. serious eye irritation. if inhaled. se respiratory irritatio se drowsiness or dizi ed of damaging the u ed of damaging the u ed of damaging fertili se damage to organs ic to aquatic life. ic to aquatic life with long | enters airways. d eye damage. action. ziness. nborn child. ty. Suspected of damages through prolonged or i long lasting effects. lasting effects. | |
| English (GB) United Arab Emirates 16/17 | | : Acute Tox. 4 Aquatic Acute 1 Aquatic Chronic 1 Aquatic Chronic 2 Aquatic Chronic 3 Asp. Tox. 1 Eye Dam. 1 Eye Irrit. 2 Flam. Liq. 2 Flam. Liq. 3 Repr. 2 Skin Corr. 1B Skin Corr. 1C Skin Irrit. 2 | ACUTE TO SHORT-TE LONG-TER LONG-TER ASPIRATIO SERIOUS E SERIOUS E FLAMMABL FLAMMABL REPRODU SKIN CORF SKIN CORF | XICITY - Category 4 RM (ACUTE) AQUATIO M (CHRONIC) AQUAT M (CHRONIC) AQUAT M (CHRONIC) AQUAT M (CHRONIC) AQUAT N HAZARD - Category EYE DAMAGE/EYE IRF EYE DAMAGE/EYE IRF EYE DAMAGE/EYE IRF EYE DAMAGE/EYE IRF EYE DAMAGE/EYE IRF EYE DAMAGE/EYE IRF COUDS - Category CTIVE TOXICITY - Cat ROSION/IRRITATION - ROSION/IRRITATION - ROSION/IRRITATION - | IC HAZARD - Category 1 IC HAZARD - Category 2 IC HAZARD - Category 3 1 RITATION - Category 1 RITATION - Category 2 2 3 egory 2 Category 1B Category 1C Category 2 |
| | | | English (GB) | United Arab Emirates | 5 16/17 |

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|---|----------------------------|---|------------------------|--|--|--|
| Code : 00444780 | | Date of issue/Date of revision | : 20 September 2022 | | | |
| SIGMACOVER 246/410/430 |) LT HARDENER | | | | | |
| SECTION 16: Other | r information | | | | | |
| | Skin Sens. 1A STOT RE 2 | SKIN SENSITISATION - Category SPECIFIC TARGET ORGAN TO> EXPOSURE - Category 2 | | | | |
| | STOT SE 3 | SPECIFIC TARGET ORGAN TO> EXPOSURE - Category 3 | CICITY - SINGLE | | | |
| <u>History</u> | | | | | | |
| Date of issue/ Date of revision | : 20 September 2022 | | | | | |
| Date of previous issue | : 19 July 2021 | | | | | |
| Prepared by | : EHS | | | | | |
| Version | : 2 | | | | | |
| <u>Disclaimer</u> | | | | | | |

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