SAFETY DATA SHEET

GH1093

| Section 1. Identifi | cation |
|--|--|
| Product name | : GENESIS® M 3.5 Low VOC Hardener |
| Product code | : GH1093 |
| Other means of identification | : Not available. |
| Product type | : Liquid. |
| Relevant identified uses of t | he substance or mixture and uses advised against |
| Paint or paint related material. | |
| Supplier | : Sherwin Williams Automotive Mexico S. de R.L. de C.V Lago Alberto 319 Piso 8, Col. Granada. Del. Miguel Hidalgo, C.P. 11520 Ciudad de México, México. |
| Emergency telephone number of the company | : US / Canada: (800) 424-9300 Mexico: 55-4160-8800 / 55-4160-8819 Monday to Friday from 8:30 a.m. to 5:30 p.m. |
| Product Information Telephone Number | : US / Canada: (800) 798-5872 Mexico: 800-022-7926 |
| Regulatory Information Telephone Number | : US / Canada: (216) 566-2902 Mexico: 55-4160-8819 / 55-4160-8806 |
| Transportation Emergency Telephone Number | : US / Canada: (800) 424-9300 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year |

Section 2. Hazards identification

| Classification of the | : FLAMMABLE LIQUIDS - Category 3 | | | | | |
|-----------------------|---|--|--|--|--|--|
| substance or mixture | SKIN CORROSION/IRRITATION - Category 2 | | | | | |
| | SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A | | | | | |
| | RESPIRATORY SENSITIZATION - Category 1 | | | | | |
| | SKIN SENSITIZATION - Category 1 | | | | | |
| | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | | | | | |
| | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | | | | | |
| | SPEČIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | | | | | |
| | Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 5.7% (dermal), 5.7% (inhalation) | | | | | |
| GHS label elements | | | | | | |
| Hazard pictograms | | | | | | |
| nazara protogramo | $\wedge \wedge \wedge$ | | | | | |

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Signal word

: Danger



Section 2. Hazards identification

| Hazard statements | : H226 - Flammable liquid and vapor. H315 - Causes skin irritation. |
|--------------------------------|---|
| | H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. H335 - May cause respiratory irritation. H336 - May cause drowsiness or dizziness. H373 - May cause damage to organs through prolonged or repeated exposure. |
| Precautionary statements | |
| Prevention | P280 - Wear protective gloves, protective clothing and eye or face protection. P284 - Wear respiratory protection. P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P241 - Use explosion-proof electrical, ventilating or lighting equipment. P242 - Use non-sparking tools. P243 - Take action to prevent static discharges. P271 - Use only outdoors or in a well-ventilated area. P260 - Do not breathe vapor. P264 - Wash thoroughly after handling. P272 - Contaminated work clothing must not be allowed out of the workplace. |
| Response | P314 - Get medical advice or attention if you feel unwell. P304 + P340, P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or docto P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. P363 - Wash contaminated clothing before reuse. P302 + P352 - IF ON SKIN: Wash with plenty of water. P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention. P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313 - If eye irritation persists: Get medical advice or attention. |
| Storage | P405 - Store locked up. P403 + P233 - Store in a well-ventilated place. Keep container tightly closed. P403 + P235 - Keep cool. |
| Disposal | : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations. |
| Supplemental label elements | DELAYED EFFECTS FROM LONG TERM OVEREXPOSURE. Contains solvents which can cause permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents can be harmful or fatal. FOR PROFESSIONAL USE ONLY. This product must be mixed with other components before use. Before opening the packages, READ AND FOLLOW WARNING LABELS ON ALL COMPONENTS. VAPOR AND SPRAY MIST HARMFUL. Gives off harmful vapor of solvents and isocyanates. DO NOT USE IF YOU HAVE CHRONIC (LONG-TERM) LUNG OR BREATHING PROBLEMS, OR IF YOU HAVE EVER HAD A REACTION TO ISOCYANATES. USE ONLY WITH ADEQUATE VENTILATION. WHERE OVERSPRAY IS PRESENT, A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR (NIOSH approved) SHOULD BE WORN TO PREVENT EXPOSURE. IF UNAVAILABLE, AN APPROPRIATE PROPERLY FITTED APPROVED NIOSH VAPOR PARTICULATE RESPIRATOR MAY BE EFFECTIVE. Follow directions for respirator use. Wear the respirator for the whole time of spraying and until all vapors and mists argone. If you have any breathing problems during use, LEAVE THE AREA and get fresh air. If problems remain or happen later, IMMEDIATELY call a doctor - If not available get emergency medical treatment. Have this label with you. Reacts with water in closed container to produce pressure which may cause container to burst. Please refer to the SDS for additional information. Keep out of reach of children. Do no transfer contents to other containers for storage. |
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Section 2. Hazards identification

Hazards not otherwise classified

: None known.

Section 3. Composition/information on ingredients

Substance/mixture

: Mixture

Other means of identification

: Not available.

CAS number/other identifiers

| Ingredient name | % by weight | CAS number |
|------------------------------------|-------------|------------|
| Hexamethylene Diisocyanate Polymer | ≥50 - ≤75 | 28182-81-2 |
| n-Butyl Acetate | ≥10 - ≤25 | 123-86-4 |
| 2-Butoxyethyl Acetate | ≤10 | 112-07-2 |
| Ethyl 3-Ethoxypropionate | ≤10 | 763-69-9 |
| Methyl n-Amyl Ketone | ≤5 | 110-43-0 |
| 2-methoxy-1-methylethyl acetate | ≤3 | 108-65-6 |
| Hexamethylene Diisocyanate (max.) | ≤0.3 | 822-06-0 |

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified and hence require reporting in this section.

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

Section 4. First aid measures

Description of necessary first aid measures

| Eye contact | Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention. |
|--------------|---|
| Inhalation | : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. 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. In the event of any complaints or symptoms, avoid further exposure. |
| Skin contact | : Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing before reuse. Clean shoes thoroughly before reuse. |
| Ingestion | : Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. |

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Section 4. First aid measures

| Most important symptoms/e | ffects, acute and delayed |
|-------------------------------|---|
| Potential acute health effect | <u>ets</u> |
| Eye contact | : Causes serious eye irritation. |
| Inhalation | : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion | : Can cause central nervous system (CNS) depression. |
| Over-exposure signs/symp | <u>toms</u> |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing wheezing and breathing difficulties asthma nausea or vomiting headache drowsiness/fatigue dizziness/vertigo unconsciousness |
| Skin contact | : Adverse symptoms may include the following: irritation redness |
| Ingestion | : No specific data. |
| Indication of immediate med | lical attention and special treatment needed, if necessary |
| Notes to physician | : In case of inhalation of decomposition products in a fire, symptoms may be delayed. |
| Notes to physician | The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |
| 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. |

See toxicological information (Section 11)

Section 5. Fire-fighting measures

| Extinguishing media | |
|--|--|
| Suitable extinguishing media | : Use dry chemical, CO ₂ , water spray (fog) or foam. |
| Unsuitable extinguishing media | : Do not use water jet. |
| Specific hazards arising from the chemical | : Flammable liquid and vapor. 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. The vapor/gas is heavier than air and will spread along the ground. Vapors may accumulate in low or confined areas or travel a considerable distance to a source of ignition and flash back. |

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Section 5. Fire-fighting measures

| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides |
|---|--|
| Special protective actions 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. |
| Remark | : Flammable liquid. |

Section 6. Accidental release measures

Personal precautions, protective 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 spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. |
|--------------------------------|--|
| For emergency responders | : If specialized 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". |
| Environmental precautions | : Avoid dispersal of spilled 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). |
| Methods and materials for co | ontainment 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 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 (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal. |

Section 7. Handling and storage

Precautions for safe handlingProtective measures: Put on appropriate personal protective equipment (see Section 8). Persons with a
history of skin sensitization problems or asthma, allergies or chronic or recurrent
respiratory disease should not be employed in any process in which this product is used.
Do not get in eyes or on skin or clothing. Do not breathe vapor or mist. Do not ingest.
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,

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Section 7. Handling and storage

| | 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. |
| Conditions for safe storage, including any incompatibilities | : 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 oxidizing 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 unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use. |

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits (OSHA United States)

| Ingredient name | CAS # | Exposure limits |
|--|------------------------|--|
| Hexamethylene Diisocyanate Polymer n-Butyl Acetate | 28182-81-2 123-86-4 | None. NIOSH REL (United States, 10/2020). TWA: 150 ppm 10 hours. TWA: 710 mg/m ³ 10 hours. STEL: 200 ppm 15 minutes. STEL: 950 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). TWA: 150 ppm 8 hours. TWA: 710 mg/m ³ 8 hours. ACGIH TLV (United States, 1/2023). [Butyl acetates all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. |
| 2-Butoxyethyl Acetate | 112-07-2 | NIOSH REL (United States, 10/2020). TWA: 5 ppm 10 hours. TWA: 33 mg/m ³ 10 hours. ACGIH TLV (United States, 1/2023). TWA: 20 ppm 8 hours. |
| Ethyl 3-Ethoxypropionate Methyl n-Amyl Ketone | 763-69-9 110-43-0 | None. ACGIH TLV (United States, 1/2023). TWA: 50 ppm 8 hours. TWA: 233 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 100 ppm 10 hours. TWA: 465 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). TWA: 100 ppm 8 hours. TWA: 465 mg/m ³ 8 hours. |
| 2-methoxy-1-methylethyl acetate | 108-65-6 | OARS WEEL (United States, 4/2022). TWA: 50 ppm 8 hours. |
| Hexamethylene Diisocyanate (max.) | 822-06-0 | ACGIH TLV (United States, 1/2023). TWA: 0.005 ppm 8 hours. |
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Section 8. Exposure controls/personal protection

| - | - |
|---|--|
| | TWA: 0.03 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). |
| | TWA: 0.005 ppm 10 hours. TWA: 0.035 mg/m ³ 10 hours. CEIL: 0.02 ppm 10 minutes. CEIL: 0.14 mg/m ³ 10 minutes. |

Occupational exposure limits (Canada)

| 28182-81-2 123-86-4 | CA Quebec Provincial (Canada, 6/2022). [Isocyanate oligomers] Skin sensitizer. Inhalation sensitizer. |
|---|---|
| 123-86-4 | |
| 123-86-4 123-86-4 CA Alberta Provincial (C 15 min OEL: 200 ppm 1 15 min OEL: 950 mg/m ³ 8 hrs OEL: 150 ppm 8 h 8 hrs OEL: 713 mg/m ³ 8 CA Saskatchewan Prov 7/2013). STEL: 200 ppm 15 minu TWA: 150 ppm 8 hours. CA Ontario Provincial (C [butyl acetates, all isom STEL: 150 ppm 15 minu TWA: 50 ppm 8 hours. CA British Columbia Pr 6/2022). [butyl acetate, a STEL: 150 ppm 15 minu TWA: 50 ppm 8 hours. CA Quebec Provincial ([butyl acetates (all isom STEV: 150 ppm 15 minu TWAEV: 50 ppm 8 hours. | |
| 112-07-2 | CA British Columbia Provincial (Canada, 6/2022). TWA: 20 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 20 ppm 8 hours. CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 131 mg/m ³ 8 hours. 8 hrs OEL: 20 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 30 ppm 15 minutes. TWA: 20 ppm 8 hours. CA Quebec Provincial (Canada, 6/2022). TWAEV: 10 ppm 8 hours. |
| 110-43-0 | CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 233 mg/m³ 8 hours. 8 hrs OEL: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 6/2022). TWA: 50 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). TWA: 25 ppm 8 hours. TWA: 115 mg/m³ 8 hours. |
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Section 8. Exposure controls/personal protection

| | | CA Quebec Provincial (Canada, 6/2022). TWAEV: 50 ppm 8 hours. TWAEV: 233 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 60 ppm 15 minutes. TWA: 50 ppm 8 hours. |
|----------------------------|----------|---|
| Hexamethylene diisocyanate | 822-06-0 | CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 0.005 ppm 8 hours. 8 hrs OEL: 0.03 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 6/2022). Inhalation sensitizer. TWA: 0.005 ppm 8 hours. C: 0.01 ppm CA Quebec Provincial (Canada, 6/2022). Skin sensitizer. Inhalation sensitizer. TWAEV: 0.005 ppm 8 hours. TWAEV: 0.005 ppm 8 hours. TWAEV: 0.034 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 0.015 ppm 15 minutes. TWA: 0.005 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [Isocyanates, organic compounds] Ceiling Limit: 0.02 ppm TWA: 0.005 ppm 8 hours. |

Occupational exposure limits (Mexico)

| Ingredient name | CAS # | Exposure limits |
|-----------------------|----------|---|
| n-Butyl Acetate | 123-86-4 | NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 150 ppm 8 hours. STEL: 200 ppm 15 minutes. |
| 2-Butoxyethyl Acetate | 112-07-2 | NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 20 ppm 8 hours. |
| Methyl n-Amyl Ketone | 110-43-0 | NOM-010-STPS-2014 (Mexico, 4/2016). TWA: 50 ppm 8 hours. |

Biological exposure indices (United States)

| Ingredient name | Exposure indices |
|-----------------------------------|---|
| Hexamethylene Diisocyanate (max.) | ACGIH BEI (United States, 1/2023) BEI: 15 μg/g creatinine, 1,6-hexamethylene diamine [in urine]. Sampling time: end of shift. |

Biological exposure indices (Canada)

No exposure indices known.

Biological exposure indices (Mexico)

No exposure indices known.

Appropriate engineering controls

: Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

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Section 8. Exposure controls/personal protection

| Environmental exposure controls | : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels. | |
|---------------------------------|--|----|
| Individual protection meas | <u>s</u> | |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location. | |
| Eye/face protection | : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles. | |
| Skin protection | | |
| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should b worn at all times when handling chemical products if a risk assessment indicates this necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. | is |
| Body protection | : Personal protective equipment for the body should be selected based on the task beir performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. | Ũ |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by specialist before handling this product. | |
| Respiratory protection | : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use. | |

Section 9. Physical and chemical properties

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

| <u>Appearance</u> | |
|---|---|
| Physical state | : Liquid. |
| Color | : Not available. |
| Odor | : Not available. |
| Odor threshold | : Not available. |
| рН | : Not applicable. |
| Melting point/freezing point | : Not available. |
| Boiling point, initial boiling point, and boiling range | : 123°C (253.4°F) |
| Flash point | : Closed cup: 27°C (80.6°F) [Pensky-Martens Closed Cup] |
| Evaporation rate | : 1 (butyl acetate = 1) |
| Flammability | : Flammable liquid. |

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Section 9. Physical and chemical properties

| | | • • |
|--|--------|-------------------------|
| | | ver: 0.5% per: 13.1% |
| Vapor pressure | : 1.3 | kPa (10 mm Hg) |
| Relative vapor density | : 3.94 | 4 [Air = 1] |
| Relative density : 1.0 | | 5 |
| Solubility(ies) | : | |
| Media | | Result |
| cold water | | Not soluble |
| Partition coefficient: n- octanol/water | : Not | applicable. |

| Auto-ignition temperature | : Not available. |
|---------------------------|---|
| Decomposition temperature | : Not available. |
| Viscosity | : Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt) |
| Molecular weight | : Not applicable. |
| Heat of combustion | : 9.451 kJ/g |

Section 10. Stability and reactivity

| Reactivity | : No specific test data related to reactivity available for this product or its ingredients. |
|------------------------------------|--|
| Chemical stability | : The product is stable. |
| Possibility of hazardous reactions | : Under normal conditions of storage and use, hazardous reactions will not occur. |
| Conditions to avoid | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. Do not allow vapor to accumulate in low or confined areas. |
| Incompatible materials | : Reactive or incompatible with the following materials: oxidizing materials |
| Hazardous decomposition products | : Under normal conditions of storage and use, hazardous decomposition products should not be produced. |

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

| Product/ingredient name | Result | Species | Dose | Exposure |
|--------------------------------|------------------------------------|------------|-------------------------|----------------|
| Hexamethylene Diisocyanate | LC50 Inhalation Dusts and mists | Rat | 18500 mg/m ³ | 1 hours |
| Polymer | | | J J | |
| n-Butyl Acetate | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| | LD50 Oral | Rat | 10768 mg/kg | - |
| 2-Butoxyethyl Acetate | LD50 Dermal | Rabbit | 1500 mg/kg | - |
| | LD50 Oral | Rat | 2400 mg/kg | - |
| Ethyl 3-Ethoxypropionate | LD50 Oral | Rat | 3200 mg/kg | - |
| Methyl n-Amyl Ketone | LD50 Oral | Rat | 1600 mg/kg | - |
| 2-methoxy-1-methylethyl | LD50 Dermal | Rabbit | >5 g/kg | - |
| acetate | | | | |
| | LD50 Oral | Rat | 8532 mg/kg | - |
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Section 11. Toxicological information Hexamethylene Diisocyanate (max.) LC50 Inhalation Dusts and mists Rat 124 mg/m³ 4 hours

| L | | _ |
|------------|------------|---|
| Irritation | /Corrosion | |
| irritation | Corrosion | |

| Intation/Corrosion | | | | | • |
|---------------------------------------|--------------------------|---------|-------|--------------|-------------|
| Product/ingredient name | Result | Species | Score | Exposure | Observation |
| Hexamethylene Diisocyanate Polymer | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 500 mg | - |
| n-Butyl Acetate | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| - | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| 2-Butoxyethyl Acetate | Eyes - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |
| Ethyl 3-Ethoxypropionate | Skin - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| Methyl n-Amyl Ketone | Skin - Mild irritant | Rabbit | - | 24 hours 14 | - |
| | | | | mg | |

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | Category | Route of exposure | Target organs |
|------------------------------------|------------|-------------------|---------------------------------|
| Hexamethylene Diisocyanate Polymer | Category 3 | - | Respiratory tract irritation |
| n-Butyl Acetate | Category 3 | - | Narcotic effects |
| Methyl n-Amyl Ketone | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |
| 2-methoxy-1-methylethyl acetate | Category 3 | - | Narcotic effects |
| Hexamethylene Diisocyanate (max.) | Category 3 | - | Respiratory tract irritation |

Specific target organ toxicity (repeated exposure)

| Name | | Route of exposure | Target organs |
|----------------------|------------|----------------------|---------------|
| Methyl n-Amyl Ketone | Category 2 | - | - |

Aspiration hazard

Not available.

Section 11. Toxicological information

| Information on the likely routes of exposure | 1 | Not available. |
|---|------------|--|
| Potential acute health effe | cts | |
| Eye contact | : | Causes serious eye irritation. |
| Inhalation | : | Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin contact | 1 | Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion | : | Can cause central nervous system (CNS) depression. |
| Symptoms related to the p | ohy | sical, chemical and toxicological characteristics |
| Eye contact | | Adverse symptoms may include the following: |
| | | pain or irritation watering |
| | | redness |
| Inhalation | - | Adverse symptoms may include the following: respiratory tract irritation |
| | | coughing wheezing and breathing difficulties asthma |
| | | nausea or vomiting |
| | | |
| | | drowsiness/fatigue dizziness/vertigo |
| | | unconsciousness |
| Skin contact | : | Adverse symptoms may include the following: irritation redness |
| Ingestion | : | No specific data. |
| | | |
| Delayed and immediate ef | <u>fec</u> | ts and also chronic effects from short and long term exposure |
| Short term exposure | | |
| Potential immediate effects | 1 | Not available. |
| Potential delayed effects | : | Not available. |
| Long term exposure | | |
| Potential immediate effects | 1 | Not available. |
| Potential delayed effects | : | Not available. |
| Potential chronic health ef | ffe | <u>cts</u> |
| Not available. | | |
| General | : | May cause damage to organs through prolonged or repeated exposure. Once sensitized, a severe allergic reaction may occur when subsequently exposed to very low levels. |
| Carcinogenicity | : | No known significant effects or critical hazards. |
| Mutagenicity | : | No known significant effects or critical hazards. |
| Teratogenicity | : | No known significant effects or critical hazards. |
| Developmental effects | : | No known significant effects or critical hazards. |
| Fertility effects | : | No known significant effects or critical hazards. |
| | | |

Section 11. Toxicological information

Numerical measures of toxicity

| Acute | toxicity | <u>v estimates</u> | |
|--------------|----------|--------------------|--|
| | | | |

| Route | ATE value |
|------------------------------|----------------|
| Oral | 15902.12 mg/kg |
| Dermal | 26375.5 mg/kg |
| Inhalation (vapors) | 120.67 mg/l |
| Inhalation (dusts and mists) | 6.93 mg/l |

Section 12. Ecological information

| IOXICITY | | | |
|-------------------------|------------------------------------|------------------------------|------------|
| Product/ingredient name | Result | Species | Exposure |
| n-Butyl Acetate | Acute LC50 32 mg/l Marine water | Crustaceans - Artemia salina | 48 hours 🥄 |
| | Acute LC50 18000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |
| Methyl n-Amyl Ketone | Acute LC50 131000 µg/l Fresh water | Fish - Pimephales promelas | 96 hours |

Persistence and degradability

.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|--|-------------------|------------|-------------------------------|
| n-Butyl Acetate 2-Butoxyethyl Acetate Methyl n-Amyl Ketone | - - | - - | Readily Readily Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential |
|---|--------|----------------|------------|
| Hexamethylene Diisocyanate Polymer Hexamethylene Diisocyanate (max.) | | 367.7 57.63 | Low Low |

Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Other adverse effects

: No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized 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. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. 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. Vapor 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 spilled material and runoff and contact

Section 13. Disposal considerations

with soil, waterways, drains and sewers.

Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | ΙΑΤΑ | IMDG |
|-------------------------------|---|--|---|--|---|
| UN number | UN1263 | UN1263 | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED MATERIAL | PAINT RELATED |
| Transport hazard class(es) | 3 | 3 | 3 | 3 | 3 |
| Packing group | III | ш | ш | ш | |
| Environmental hazards | No. | No. | No. | No. | No. |
| Additional information | - | | - | _ | Emergency schedules F-E, S E |
| | ERG No. | ERG No. | ERG No. | | |
| | 128 | 128 | 128 | | |
| pecial precautions | conside mode c suitably to shipr of the p | dal shipping descriper container sizes. The f transport (sea, air, for that mode of tran nent, and compliance person offering the pro ous goods must be to | e presence of a ship etc.), does not indic nsport. All packaging e with the applicable oduct for transport. | pping description for ate that the product i g must be reviewed f regulations is the so People loading and u | a particular is packaged for suitability prior ble responsibility unloading |

and on all actions in case of emergency situations.

Transport in bulk according : Not available. to IMO instruments

Proper shipping name

: Not available.

Section 15. Regulatory information

International regulations

Montreal Protocol

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

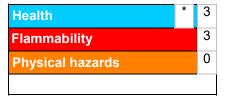
: 6/9/2023

Section 15. Regulatory information

| International lists | : Australia inventory (AIIC): Not determined. |
|---------------------|--|
| | China inventory (IECSC): Not determined. |
| | Japan inventory (CSCL): Not determined. |
| | Japan inventory (ISHL): Not determined. |
| | Korea inventory (KECI): Not determined. |
| | New Zealand Inventory of Chemicals (NZIoC): Not determined. |
| | Philippines inventory (PICCS): Not determined. |
| | Taiwan Chemical Substances Inventory (TCSI): Not determined. |
| | Thailand inventory: Not determined. |
| | Turkey inventory: Not determined. |
| | Vietnam inventory: Not determined. |

Section 16. Other information

Hazardous Material Information System (U.S.A.)



The customer is responsible for determining the PPE code for this material. For more information on HMIS® Personal Protective Equipment (PPE) codes, consult the HMIS® Implementation Manual.

Caution: HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS® ratings and the associated label are not required on SDSs or products leaving a facility under 29 CFR 1910.1200, the preparer may choose to provide them. HMIS® ratings are to be used with a fully implemented HMIS® program. HMIS® is a registered trademark and service mark of the American Coatings Association, Inc.

Procedure used to derive the classification

| Classification | Justification | |
|--|-----------------------|--|
| FLAMMABLE LIQUIDS - Category 3 | On basis of test data | |
| SKIN CORROSION/IRRITATION - Category 2 | Calculation method | |
| SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2A | Calculation method | |
| RESPIRATORY SENSITIZATION - Category 1 | Calculation method | |
| SKIN SENSITIZATION - Category 1 | Calculation method | |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method | |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3 | Calculation method | |
| SPEČIFÍC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 | Calculation method | |

| <u>HISTORY</u> | |
|--------------------------------|---|
| Date of printing | : 9/13/2023 |
| Date of issue/Date of revision | : 9/13/2023 |
| Date of previous issue | : 6/9/2023 |
| Version | : 14 |
| Key to abbreviations | : ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = Iogarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 |

| Date of issue/Date | e of revision | : 9/13/2023 | Date of previous issue | : 6/9/2023 | Version | :14 | 15/16 |
|--------------------|------------------------------------|-------------|------------------------|------------|---------|-----------|-------|
| GH1093 | 93 GENESIS® M 3.5 Low VOC Hardener | | | | SHW-85- | NA-GHS-MX | |

Section 16. Other information

as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations

Indicates information that has changed from previously issued version.

Notice to reader

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