SAFETY DATA SHEET

F93G116

Section 1. Identification

| Product name | : MIL-DTL-53039E Type IV Polymeric Moisture Cure Topcoat 1K Aliphatic Polyurethane 1.0 VOC CARC Green 383 34094 Q2050 |
|---|---|
| Product code | : F93G116 |
| 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. | |
| | |
| Manufacturer | : THE SHERWIN-WILLIAMS COMPANY 101 W. Prospect Avenue Cleveland, OH 44115 |
| National contact | : Sherwin-Williams Canada Inc. 180 Brunel Road Mississauga, Ontario L4Z 1T5 Canada |
| Emergency telephone number of the company Product Information | US / Canada: (216) 566-2917 Mexico: SETIQ 800-00-214-00 / 55-5559-1588 Available 24 hours and 365 days a year US / Canada: 1-844-290-6044 Maxima Nut April 144 |
| Telephone Number | Mexico: Not Available |
| Regulatory Information Telephone Number | : US / Canada: (216) 566-2902 Mexico: Not Available |
| Transportation Emergency Telephone Number | : US / Canada: (216) 566-2917 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 |
| | SKIN SENSITIZATION - Category 1 |
| | CARCINOGENICITY - Category 2 |
| | TOXIC TO REPRODUCTION - Category 2 |
| | SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 |
| | SPECIFIC TARGET ORGAN TOXICITY (REPEATED EXPOSURE) - Category 2 |
| | Percentage of the mixture consisting of ingredient(s) of unknown acute toxicity: 33.7% (dermal), 33.7% (inhalation) |
| GHS label elements | |
| Hazard pictograms | |
| | |
| Signal word | : Warning |
| Date of issue/Date of revision | : 11/25/2022 Date of previous issue : 6/21/2022 Version : 12 1/18 |

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Section 2. Hazards identification

| Hazard statements Precautionary statements | Flammable liquid and vapor. Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. May cause respiratory irritation. Suspected of causing cancer. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure. |
|--|--|
| Prevention | : Obtain special instructions before use. Do not handle until all safety precautions have |
| | been read and understood. Wear protective gloves, protective clothing and eye or face protection. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Use explosion-proof electrical, ventilating or lighting equipment. Use non-sparking tools. Take action to prevent static discharges. Use only outdoors or in a well-ventilated area. Do not breathe vapor. Wash thoroughly after handling. Contaminated work clothing must not be allowed out of the workplace. |
| Response | : IF exposed or concerned: Get medical advice or attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Wash contaminated clothing before reuse. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice or attention. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice or attention. |
| Storage | : Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep cool. |
| Disposal | : 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. WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm. FOR INDUSTRIAL USE ONLY. 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 are gone. 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 not transfer contents to other containers for storage. |
| Hazards not otherwise | : None known. |

classified

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 |
|---|-------------|------------|
| p-Chlorobenzotrifluoride | 33.72 | 98-56-6 |
| Hexamethylene Diisocyanate Polymer | 15.6 | 28182-81-2 |
| Cobalt Chromite Green Spinel | 9.06 | 68187-49-5 |
| Chromium Oxide | 8.72 | 1308-38-9 |
| Magnesium Ferrite | 2.91 | 12068-86-9 |
| Light Aromatic Hydrocarbons | 1.82 | 64742-95-6 |
| n-Butyl Acetate | 1.27 | 123-86-4 |
| trimethylbenzene | 0.95 | 25551-13-7 |
| Bis(pentamethyl-4-piperidyl)sebacate | 0.61 | 41556-26-7 |
| 1,3,5-Trimethylbenzene | 0.4 | 108-67-8 |
| 1,2,4-Trimethylbenzene | 0.4 | 95-63-6 |
| 1-[2-(Dimethylamino)ethyl]-4-methylpiperazine | 0.27 | 104-19-8 |
| Methyl pentamethylpiperidyl sebacate | 0.15 | 82919-37-7 |
| Xylene, mixed isomers | 0.12 | 1330-20-7 |
| 1,2,3-Trimethylbenzene | 0.12 | 526-73-8 |
| Cumene | 0.12 | 98-82-8 |

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 necess | ary 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. |
| 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. |

Section 4. First aid measures

| Section 4. First a | iu measures |
|-----------------------------|---|
| 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. 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. |
| Most important symptoms | |
| Potential acute health effe | <u>ects</u> |
| Eye contact | : Causes serious eye irritation. |
| Inhalation | : May cause respiratory irritation. |
| Skin contact | : Causes skin irritation. May cause an allergic skin reaction. |
| Ingestion | : No known significant effects or critical hazards. |
| Over-exposure signs/sym | iptoms |
| Eye contact | : Adverse symptoms may include the following: pain or irritation watering redness |
| Inhalation | : Adverse symptoms may include the following: respiratory tract irritation coughing reduced fetal weight increase in fetal deaths skeletal malformations |
| Skin contact | : Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations |
| Ingestion | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
| Indication of immediate me | edical attention and special treatment needed, if necessary |
| Notes to physician | In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours. |
| Specific treatments | : No specific treatment. |
| 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)

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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. |
| Hazardous thermal decomposition products | : Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides halogenated compounds carbonyl halides metal oxide/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. |

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 | nt | ainment 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.

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Section 6. Accidental release measures

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 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 vapor or mis 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, 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 container 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 limi | ts | | |
|--|--------------|-------------------------------------|---|--|--|------|
| p-Chlorobenzotrifluoride Hexamethylene Diisocyanate F Cobalt Chromite Green Spinel | olymer | 98-56-6 28182-81-2 68187-49-5 | ACGIH TLV (I and inorganic Inhalation se TWA: 0.02 m NIOSH REL (I [chromium (II TWA: 0.5 m OSHA PEL (I | United States, 1 c compounds] 5 nsitizer. ng/m³, (as Co) 8 United States, 1 II) compounds] g/m³, (as CR) 8 h Inited States, 5 II) compounds] | Skin sensiti hours. 10/2020). nours. /2018). | |
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| 1308-38-9 | TWA: 0.5 mg/m ³ , (as Cr) 8 hours. NIOSH REL (United States, 10/2020). [chromium (III) compounds] TWA: 0.5 mg/m ³ , (as CR) 8 hours. ACGIH TLV (United States, 1/2022). |
|-------------------------------------|--|
| | [inorganic chromium III compounds] TWA: 0.003 mg/m ³ , (measured as Cr) 8 hours. Form: Inhalable fraction |
| | OSHA PEL (United States, 5/2018). [Chromium (III) compounds] TWA: 0.5 mg/m ³ , (as Cr) 8 hours. |
| 12068-86-9 | ACGIH TLV (United States, 1/2022). [Iron salts, soluble] |
| | TWA: 1 mg/m³, (as Fe) 8 hours. NIOSH REL (United States, 10/2020). [iron salts] |
| 64742-95-6 123-86-4 | TWA: 1 mg/m³, (as Fe) 10 hours. 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, 1/2022). [Butyl acetates] STEL: 150 ppm 15 minutes. |
| 25551 12 7 | TWA: 50 ppm 8 hours. |
| 20001-10-7 | ACGIH TLV (United States, 1/2022). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours. TWA: 123 mg/m ³ 8 hours. |
| 41556-26-7 108-67-8 | None. ACGIH TLV (United States, 1/2022). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours. TWA: 123 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m ³ 10 hours. |
| 95-63-6 | NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m ³ 10 hours. ACGIH TLV (United States, 1/2022). TWA: 10 ppm 8 hours. |
| 104-19-8 82919-37-7 1330-20-7 | None. None. ACGIH TLV (United States, 1/2022). [xylene TWA: 20 ppm 8 hours. TWA: 434 mg/m ³ 8 hours. STEL: 651 mg/m ³ 15 minutes. OSHA PEL (United States, 5/2018). [Xylenes] TWA: 100 ppm 8 hours. TWA: 435 mg/m ³ 8 hours. |
| | 12068-86-9 64742-95-6 123-86-4 25551-13-7 41556-26-7 108-67-8 95-63-6 95-63-6 |

| • | • | |
|------------------------|----------|---|
| 1,2,3-Trimethylbenzene | 526-73-8 | ACGIH TLV (United States, 1/2022). [trimethyl benzene, isomers] TWA: 10 ppm 8 hours. TWA: 123 mg/m ³ 8 hours. NIOSH REL (United States, 10/2020). TWA: 25 ppm 10 hours. TWA: 125 mg/m ³ 10 hours. |
| Cumene | 98-82-8 | ACGIH TLV (United States, 1/2022). TWA: 5 ppm 8 hours. NIOSH REL (United States, 10/2020). Absorbed through skin. TWA: 50 ppm 10 hours. TWA: 245 mg/m ³ 10 hours. OSHA PEL (United States, 5/2018). Absorbed through skin. TWA: 50 ppm 8 hours. TWA: 245 mg/m ³ 8 hours. |

Occupational exposure limits (Canada)

| Ingredient name | CAS # | Exposure limits | | |
|--|------------------------|--|--|--|
| Hexamethylene Diisocyanate Polymer | 28182-81-2 | CA Quebec Provincial (Canada, 6/2021). | | |
| n-butyl acetate | 123-86-4 | [Isocyanate oligomers] Skin sensitizer. CA Alberta Provincial (Canada, 6/2018). 15 min OEL: 200 ppm 15 minutes. 15 min OEL: 950 mg/m ³ 15 minutes. 8 hrs OEL: 150 ppm 8 hours. 8 hrs OEL: 713 mg/m ³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 200 ppm 15 minutes. TWA: 150 ppm 8 hours. CA Ontario Provincial (Canada, 6/2019). [butyl acetates, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA British Columbia Provincial (Canada, 3/2022). [butyl acetate, all isomers] STEL: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). [butyl acetates] STEV: 150 ppm 15 minutes. TWA: 50 ppm 8 hours. | | |
| Xylene | 1330-20-7 | CA Alberta Provincial (Canada, 6/2018). [Dimethylbenzene] 8 hrs OEL: 100 ppm 8 hours. 15 min OEL: 651 mg/m ³ 15 minutes. 15 min OEL: 150 ppm 15 minutes. 8 hrs OEL: 434 mg/m ³ 8 hours. CA British Columbia Provincial (Canada, 3/2022). [Xylene (o, m & p isomers)] TWA: 100 ppm 8 hours. STEL: 150 ppm 15 minutes. CA Quebec Provincial (Canada, 6/2021). [Xylene] TWAEV: 100 ppm 8 hours. | | |
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|--------|---------|--|
| | | TWAEV: 434 mg/m ³ 8 hours. STEV: 150 ppm 15 minutes. STEV: 651 mg/m ³ 15 minutes. CA Ontario Provincial (Canada, 6/2019). [Xylene (o-, m-, p-isomers)] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). [Xylene] STEL: 150 ppm 15 minutes. TWA: 100 ppm 8 hours. |
| Cumene | 98-82-8 | CA Alberta Provincial (Canada, 6/2018). 8 hrs OEL: 50 ppm 8 hours. 8 hrs OEL: 246 mg/m³ 8 hours. CA British Columbia Provincial (Canada, 3/2022). TWA: 25 ppm 8 hours. STEL: 75 ppm 15 minutes. CA Ontario Provincial (Canada, 6/2019). TWA: 50 ppm 8 hours. CA Quebec Provincial (Canada, 6/2021). TWAEV: 50 ppm 8 hours. TWAEV: 50 ppm 8 hours. TWAEV: 246 mg/m³ 8 hours. CA Saskatchewan Provincial (Canada, 7/2013). STEL: 74 ppm 15 minutes. TWA: 50 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. | - |

| Appropriate engineering controls | : Use only with adequate ventilation. Use process enclose other engineering controls to keep worker exposure to ai recommended or statutory limits. The engineering contro vapor or dust concentrations below any lower explosive li- ventilation equipment. | rborne contaminants below any ols also need to keep gas, |
|----------------------------------|---|---|
| Environmental exposure controls | Emissions from ventilation or work process equipment sh they comply with the requirements of environmental prote cases, fume scrubbers, filters or engineering modification will be necessary to reduce emissions to acceptable leve | ection legislation. In some ns to the process equipment |
| Individual protection measur | <u>es</u> | |
| Hygiene measures | : Wash hands, forearms and face thoroughly after handling eating, smoking and using the lavatory and at the end of Appropriate techniques should be used to remove potent Contaminated work clothing should not be allowed out of contaminated clothing before reusing. Ensure that eyews showers are close to the workstation location. | the working period. tially contaminated clothing. the workplace. Wash |
| Eye/face protection | : Safety eyewear complying with an approved standard she assessment indicates this is necessary to avoid exposure gases or dusts. If contact is possible, the following prote the assessment indicates a higher degree of protection: | e to liquid splashes, mists, ction should be worn, unless |
| Skin protection | | |
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| Hand protection | : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
|------------------------|--|
| Body protection | : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear antistatic protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| Respiratory protection | : 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: 35°C (95°F) [Pensky-Martens Closed Cup] |
| Evaporation rate | : 1 (butyl acetate = 1) |
| Flammability | : Not available. |
| Lower and upper explosion limit/flammability limit | : Lower: 0.7% Upper: 10.5% |
| Vapor pressure | : 1.3 kPa (10 mm Hg) |
| Relative vapor density | : 4 [Air = 1] |
| Relative density | : 1.32 |
| Solubility(ies) | : |
| Not available. | |
| 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. |
| Aerosol product | |

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Section 9. Physical and chemical properties

Heat of combustion : 17.311 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 |
|---------------------------------------|---------------------------------|---------|-------------------------|----------|
| p-Chlorobenzotrifluoride | LD50 Oral | Rat | 13 g/kg | - |
| Hexamethylene Diisocyanate Polymer | LC50 Inhalation Dusts and mists | Rat | 18500 mg/m ³ | 1 hours |
| Light Aromatic Hydrocarbons | LD50 Oral | Rat | 8400 mg/kg | - |
| n-Butyl Acetate | LD50 Dermal | Rabbit | >17600 mg/kg | - |
| - | LD50 Oral | Rat | 10768 mg/kg | - |
| trimethylbenzene | LD50 Oral | Rat | 8970 mg/kg | - |
| 1,3,5-Trimethylbenzene | LC50 Inhalation Vapor | Rat | 24000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 5000 mg/kg | - |
| 1,2,4-Trimethylbenzene | LC50 Inhalation Vapor | Rat | 18000 mg/m ³ | 4 hours |
| • | LD50 Oral | Rat | 5 g/kg | - |
| Xylene, mixed isomers | LC50 Inhalation Gas. | Rat | 6700 ppm | 4 hours |
| | LD50 Oral | Rat | 4300 mg/kg | - |
| Cumene | LC50 Inhalation Vapor | Rat | 39000 mg/m ³ | 4 hours |
| | LD50 Oral | Rat | 1400 mg/kg | - |

Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Observation |
|---------------------------------------|----------------------------------|-----------|-------------|--------------|-------------|
| Hexamethylene Diisocyanate Polymer | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| - | Skin - Moderate irritant | Rabbit | - | 500 mg | - |
| Light Aromatic Hydrocarbons | Eyes - Mild irritant | Rabbit | - | 24 hours 100 | - |
| ° | | | | uL | |
| n-Butyl Acetate | Eyes - Moderate irritant | Rabbit | - | 100 mg | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| trimethylbenzene | Eyes - Mild irritant | Rabbit | - | 24 hours 500 | - |
| | | | | mg | |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 | - |
| ate of issue/Date of revision | : 11/25/2022 Date of previ | ous issue | : 6/21/2022 | Version | :12 11/18 |
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| | | - | | | |
|----------------------------|--|------------------|---|------------------------|---|
| 1,3,5-Trimethylbenzene | Eyes - Mild irritant | Rabbit | - | mg 24 hours 500 | - |
| | Skin - Moderate irritant | Rabbit | - | mg 24 hours 20 | - |
| 1-[2-(Dimethylamino)ethyl] | Eyes - Severe irritant | Rabbit | - | mg 24 hours 750 | - |
| -4-methylpiperazine | Skin - Severe irritant | Rabbit | - | ug 24 hours 5 | - |
| Xylene, mixed isomers | Eyes - Mild irritant | Rabbit | - | mg 87 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 24 hours 5 mg | - |
| | Skin - Mild irritant Skin - Moderate irritant | Rat Rabbit | - | 8 hours 60 uL 100 % | - |
| | Skin - Moderate irritant | Rabbit | - | 24 hours 500 mg | - |
| Cumene | Eyes - Mild irritant | Rabbit | - | 24 hours 500 mg | - |
| | Eyes - Mild irritant Skin - Mild irritant | Rabbit Rabbit | - | 86 mg 24 hours 10 | - |
| | Skin - Moderate irritant | Rabbit | - | mg 24 hours 100 | - |
| | | | | mg | |

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Not available.

Classification

| Product/ingredient name | OSHA | IARC | NTP | |
|--------------------------|------|------|--|--|
| p-Chlorobenzotrifluoride | - | 2B | - | |
| Cobalt Chromite Green | - | 2B | Reasonably anticipated to be a human carcinogen. | |
| Spinel | | | | |
| Chromium Oxide | - | 3 | - | |
| Xylene, mixed isomers | - | 3 | - | |
| Cumene | - | 2B | Reasonably anticipated to be a human carcinogen. | |

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

| Name | | | Category | Route of exposure | Target organs |
|------------------|-------------------|--|----------------------------|-------------------|------------------------------|
| p-Chlorober | nzotrifluoride | | Category 3 | - | Respiratory tract irritation |
| Hexamethy | lene Diisocyanate | e Polymer | Category 3 | - | Respiratory tract irritation |
| Light Aroma | atic Hydrocarbons | 3 | Category 3 | - | Respiratory tract irritation |
| | | | Category 3 | | Narcotic effects |
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| v | | | |
|------------------------|------------|---|---------------------------------|
| n-Butyl Acetate | Category 3 | - | Narcotic effects |
| 1,3,5-Trimethylbenzene | Category 3 | - | Respiratory tract irritation |
| 1,2,4-Trimethylbenzene | Category 3 | - | Respiratory tract irritation |
| Xylene, mixed isomers | Category 3 | - | Respiratory tract irritation |
| 1,2,3-Trimethylbenzene | Category 3 | - | Respiratory tract irritation |
| Cumene | Category 3 | - | Respiratory tract irritation |
| | Category 3 | | Narcotic effects |

Specific target organ toxicity (repeated exposure)

| Name | • • | Route of exposure | Target organs |
|-----------------------------|------------|----------------------|---------------|
| Light Aromatic Hydrocarbons | Category 2 | - | - |
| Xylene, mixed isomers | Category 2 | - | - |
| Cumene | Category 2 | - | - |

Aspiration hazard

| Name | Result |
|-----------------------------|--------------------------------|
| Light Aromatic Hydrocarbons | ASPIRATION HAZARD - Category 1 |
| trimethylbenzene | ASPIRATION HAZARD - Category 1 |
| 1,3,5-Trimethylbenzene | ASPIRATION HAZARD - Category 1 |
| 1,2,4-Trimethylbenzene | ASPIRATION HAZARD - Category 1 |
| Xylene, mixed isomers | ASPIRATION HAZARD - Category 1 |
| 1,2,3-Trimethylbenzene | ASPIRATION HAZARD - Category 1 |
| Cumene | ASPIRATION HAZARD - Category 1 |

| Information on the likely routes of exposure | : Not available. | | |
|--|---|------------------|-------|
| Potential acute health effe | <u>cts</u> | | |
| Eye contact | : Causes serious eye irritation. | | |
| Inhalation | : May cause respiratory irritation. | | |
| Skin contact | : Causes skin irritation. May cause an allergic skin reaction. | | |
| Ingestion | : No known significant effects or critical hazards. | | |
| Symptoms related to the p | hysical, 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 reduced fetal weight increase in fetal deaths skeletal malformations | | |
| Skin contact | : Adverse symptoms may include the following: irritation redness reduced fetal weight increase in fetal deaths skeletal malformations | | |
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| Ingestion | : Adverse symptoms may include the following: reduced fetal weight increase in fetal deaths skeletal malformations |
|--------------------------------|--|
| Delayed and immediate ef | fects and also chronic effects from short and long term exposure |
| <u>Short term exposure</u> | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Long term exposure | |
| Potential immediate effects | : Not available. |
| Potential delayed effects | : Not available. |
| Potential chronic health ef | <u>fects</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 | : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure. |
| 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 | : Suspected of damaging fertility. |
| | |

Numerical measures of toxicity

Acute toxicity estimates

| Route | ATE value |
|------------------------------|------------|
| Inhalation (dusts and mists) | 19.67 mg/l |

Section 12. Ecological information

| 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 | |
| trimethylbenzene | Acute LC50 5600 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours | |
| 1,3,5-Trimethylbenzene | Acute LC50 13000 μg/l Marine water | Crustaceans - Cancer magister - Zoea | 48 hours | |
| | Acute LC50 12520 µg/l Fresh water | Fish - Carassius auratus | 96 hours | |
| | Chronic NOEC 0.4 mg/l Fresh water | Daphnia - Daphnia magna | 21 days | |
| 1,2,4-Trimethylbenzene | Acute LC50 4910 µg/l Marine water | | | |
| | Acute LC50 7720 µg/l Fresh water | Fish - Pimephales promelas | 96 hours | |
| Xylene, mixed isomers | Acute LC50 8500 µg/l Marine water | Crustaceans - Palaemonetes pugio | 48 hours | |
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| Section 12. Ecological information | | | | |
|------------------------------------|-----------------------------------|--------------------------------------|----------|--|
| | Acute LC50 13400 µg/l Fresh water | Fish - Pimephales promelas | 96 hours | |
| Cumene | Acute EC50 7.4 mg/l Marine water | Crustaceans - Artemia sp Nauplii | 48 hours | |
| | Acute EC50 10.6 mg/l Fresh water | Daphnia - Daphnia magna - Neonate | 48 hours | |
| | Acute LC50 2700 μg/l Fresh water | Fish - Oncorhynchus mykiss | 96 hours | |

Persistence and degradability

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-----------------------------|-------------------|------------|------------------|
| Light Aromatic Hydrocarbons | - | - | Readily 🥄 |
| n-Butyl Acetate | - | - | Readily |
| Xylene, mixed isomers | - | - | Readily |

Bioaccumulative potential

| Product/ingredient name | LogPow | BCF | Potential | |
|---------------------------------------|--------|-------------|-----------|--|
| Hexamethylene Diisocyanate Polymer | - | 367.7 | low | |
| Light Aromatic Hydrocarbons | - | 10 to 2500 | high | |
| 1,3,5-Trimethylbenzene | - | 161 | low | |
| 1,2,4-Trimethylbenzene | - | 243 | low | |
| Xylene, mixed isomers | - | 8.1 to 25.9 | low | |
| 1,2,3-Trimethylbenzene | - | 194.98 | low | |
| Cumene | - | 35.48 | 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 with soil, waterways, drains and sewers.

Section 14. Transport information

| | DOT Classification | TDG Classification | Mexico Classification | IATA | IMDG |
|--|--|--|---|---|--|
| UN number | UN1263 | UN1263 | UN1263 | UN1263 | UN1263 |
| UN proper shipping name | PAINT | PAINT | PAINT | PAINT | PAINT. Marine pollutant (p- Chlorobenzotrifluorid Light Aromatic Hydrocarbons) |
| Transport hazard class(es) | 3 | 3 | 3 | 3 | |
| Packing group | III | ш | Ш | Ш | |
| Environmental hazards | No. | No. | No. | Yes. The environmentally hazardous substance mark is not required. | Yes. |
| Additional information | - | Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3). | - | The environmentally hazardous substance mark may appear if required by other transportation regulations. | The marine pollutant mark is not required when transported in sizes of ≤5 L or ≤5 kg. <u>Emergency</u> <u>schedules</u> F-E, S E |
| | ERG No. | ERG No. | ERG No. | | |
| | 128 | 128 | 128 | | |
| pecial precautions | | odal shipping descrip | | | |
| | mode c suitably to shipr of the p danger and on | er container sizes. The of transport (sea, air, / for that mode of tran ment, and compliance person offering the pro ous goods must be tr all actions in case of | etc.), does not indic nsport. All packagin e with the applicable oduct for transport. ained on all of the r | ate that the product g must be reviewed e regulations is the s People loading and isks deriving from th | is packaged for suitability prior ole responsibility unloading |
| ransport in bulk ac IMO instruments | cording : Not avai | lable. | | | |

Section 15. Regulatory information

| : 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

| | Justification | | | |
|--|--|--------------------|--|--|
| FLAMMABLE LIQUIDS - SKIN CORROSION/IRRI SERIOUS EYE DAMAGE SKIN SENSITIZATION - (CARCINOGENICITY - Ca TOXIC TO REPRODUCT SPECIFIC TARGET ORG irritation) - Category 3 SPECIFIC TARGET ORG | On basis of test data Calculation method Calculation method Calculation method Calculation method Calculation method Calculation method | | | |
| | | | | |
| <u>History</u> Date of printing | : 11/25/2022 : 11/25/2022 | | | |
| Date of issue/Date of revision | : 11/25/2022 | | | |
| Date of previous issue | : 6/21/2022 | | | |
| Version | : 12 | | | |
| 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 = Internediate Bulk Container IMDG = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 | | | |
| Date of issue/Date of revision | : 11/25/2022 Date of previous issue : 6/21/2022 | Version : 12 17/18 | | |
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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/buver/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.