

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Issue date: 6/12/2015 Revision date: 9/17/2024 Supersedes: 9/13/2021

| SECTION 1: Identification | | | | |
|--|---|--------------------|---------|---|
| 1.1. Identification | | | | |
| Product form Product name CAS-No. Product code Other means of identification | : Mixture : RG6-DOL : Mixture : 5010 : Dolomite Resin Bonc | led Brick | | |
| 1.2. Recommended use and restrictions on | | | | |
| Use of the substance/mixture | : Refractory Brick | | | |
| Recommended use | : Industrial use | | | |
| 1.3. Supplier | | | | |
| Resco Products, Inc. One Robinson Plaza, Suite 300 6600 Steubenville Pike Pittsburgh, PA, 15205 United States T 412-494-4491 <u>SDS@RescoProducts.com</u> - <u>WWW.RescoProducts.com</u> | <u>om</u> | | | |
| 1.4. Emergency telephone number | | | | |
| Emergency number | : EMERGENCY ONLY | | | 00-424-9300 |
| | Outside USA & Cana | aa +1 /03-/41-5970 |) | |
| SECTION 2: Hazard(s) identification | | | | |
| 2.1. Classification of the substance or mixtu | ire | | | |
| GHS US classification Skin corrosion/irritation Category 1A Carcinogenicity Category 1A Full text of H statements : see section 16 | H314 H350 | | | is and eye damage when sawing or tear out, Inhalation) |
| 2.2. GHS Label elements, including precaut | onary statements | | | |
| GHS US labeling Hazard pictograms (GHS US) | | | | |
| Signal word (GHS US) Hazard statements (GHS US) | : Danger : H314 - Causes sever H350 - May cause ca | | | Inhalation) |
| Precautionary statements (GHS US) | H350 - May cause cancer (Dust when sawing or tear out, Inhalation) P202 - Do not handle until all safety precautions have been read and understood. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P223 - Do not allow contact with water. Avoid contact with the skin and the eyes P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Gently wash with plenty of soap and water. P333+P313 - If skin irritation or rash occurs: Get medical advice/attention. P301+P330+P331 - If swallowed: rinse mouth. Do NOT induce vomiting. P260 - Do not breathe dust/fume/gas/mist/vapors/spray. | | | |
| 2.3. Other hazards which do not result in cla | ssification | | | |
| No additional information available | | | | |
| 2.4. Unknown acute toxicity (GHS US) No additional information available | | | | |
| SECTION 3: Composition/Information of | n ingredients | | | |
| 3.1. Substances | | | | |
| Not applicable | | | | |
| 3.2. Mixtures | | | | |
| Name | F | Product identifier | % | GHS US classification |
| calcium oxide | (| CAS-No.: 1305-78-8 | 50 – 75 | Skin Corr. 1A, H314 |
| Magnesium Oxide | | CAS-No.: 1309-48-4 | 20 – 50 | Not classified |
| graphite | (| CAS-No.: 7782-42-5 | 1 – 5 | Not classified |
| | | | | |

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| Name | Product identifier % GHS US classification |
|--|---|
| Phenolic Resin | CAS-No.: 108-95-2 1 – 5 Not classified |
| cristobalite | CAS-No.: 14464-46-1 0.5 – 1 Carc. 1A, H350 |
| Full text of hazard classes and H-statements : se SECTION 4: First-aid measures | a section 16 |
| | |
| 4.1. Description of first aid measures | · Cat madiael advice/attention if you feel yours! |
| First-aid measures general First-aid measures after inhalation | Get medical advice/attention if you feel unwell. Dust when sawing or tear out. Remove victim to fresh air and keep at rest in a position comfortable for breathing. |
| First-aid measures after skin contact First-aid measures after eye contact | Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pres and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion 4.2. Most important symptoms and effec | : Do NOT induce vomiting. Rinse mouth. |
| Symptoms/effects after skin contact | : May cause moderate irritation. |
| Symptoms/effects after eye contact | : Causes serious eye irritation. |
| 4.3. Immediate medical attention and spe | ecial treatment, if necessary |
| No additional information available | |
| SECTION 5: Fire-fighting measures | |
| 5.1. Suitable (and unsuitable) extinguish | ing media |
| Suitable extinguishing media Unsuitable extinguishing media | : Carbon dioxide. Dry powder. Sand. : Do not use extinguishing media containing water. |
| 5.2. Specific hazards arising from the ch | emical |
| Fire hazard | : Reactions involving a fire hazard: see "Reactivity Hazard". Do not breathe fumes from fires vapors from decomposition. |
| 5.3. Special protective equipment and pr | - |
| Firefighting instructions Protection during firefighting Other information | In case of fire, use powder extinguisher, "never use water". In case of fire, never use water. Do not enter fire area without proper protective equipment, including respiratory protection. Product will not burn, but does contain small quantities of chemicals which can generate tox and/or irritating vapors when initially heated. Under fire conditions hazardous combustion products such as carbon monoxide may be generated. |
| SECTION 6: Accidental release meas | sures |
| 6.1. Personal precautions, protective equ | upment and emergency procedures |
| General measures | : May release smoke when heated. Combustion products include carbon monoxide, carbon dioxide, and hydrocarbon vapors. |
| 6.1.1. For non-emergency personnel Protective equipment Emergency procedures | : Safety shoes. Protective gloves. Safety glasses. Protective clothing. : Avoid contact with skin and eyes. |
| 6.1.2. For emergency responders Protective equipment | : Do not attempt to take action without suitable protective equipment. |
| 6.2. Environmental precautions | |
| No additional information available | |
| 6.3. Methods and material for containme | nt and cleaning up |
| For containment | : Collect spillage. |
| Methods for cleaning up | : Mechanically recover the product. |
| 6.4. Reference to other sections | |
| No additional information available SECTION 7: Handling and storage | |
| | |
| 7.1. Precautions for safe handling Precautions for safe handling | : Avoid contact with eyes. Contact lenses should be removed. Keep away from any possible |
| 7.2. Conditions for only stores includin | contact with water, because of violent reaction and possible flash fire. |
| 7.2. Conditions for safe storage, includin | |
| Storage conditions Incompatible products | Store this product in a dry location where it can be protected from the elements. Protect fror moisture. Acids; reactive fluoridated, brominated, or phosphorous compounds; aluminum (may form hydrogen gas); reactive metals; organic acid anhydrides; nitro-organic compounds; |

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| SECTION 8: Exposure controls/perso | nal protection |
|---|--|
| 8.1. Control parameters | |
| RG6-DOL (Mixture) | |
| No additional information available | |
| Magnesium Oxide (1309-48-4) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 10 mg/m ³ inhalable dust |
| USA - OSHA - Occupational Exposure Limits | |
| OSHA PEL (TWA) [1] | 10 mg/m ³ respirable dust |
| calcium oxide (1305-78-8) | |
| USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA | 0 ma/m3 |
| | 2 mg/m ³ |
| cristobalite (14464-46-1) | |
| USA - ACGIH - Occupational Exposure Limits ACGIH OEL TWA | 0.025 mg/m ³ respirable dust |
| USA - OSHA - Occupational Exposure Limits | |
| OSHA PEL (TWA) [1] | 0.05 mg/m ³ respirable dust |
| Phenolic Resin (108-95-2) | |
| No additional information available | |
| graphite (7782-42-5) | |
| USA - ACGIH - Occupational Exposure Limits | |
| ACGIH OEL TWA | 2 mg/m ³ (Respirable fraction) |
| 8.2. Appropriate engineering controls | |
| Appropriate engineering controls | : Dust when sawing or tear out. Emergency eye wash fountain with clean water. Provide adequate ventilation to minimize dust concentrations. |
| 8.3. Individual protection measures/Perso | |
| Personal protective equipment: | |
| Avoid all unnecessary exposure. | |
| Hand protection: | |
| Wear protective gloves. | |
| Eye protection: | |
| Chemical goggles or safety glasses | |
| | |
| Skin and body protection: | |
| Safety shoes. Wear suitable protective clothing | |
| Respiratory protection: | |
| Dust when sawing or tear out. Wear appropriate m | |
| SECTION 9: Physical and chemical pr | roperties |
| 9.1. Information on basic physical and ch | emical properties |
| Physical state | : Solid |
| Appearance | : Solid in various shapes. |
| Color Odor | : Black : Resin Odor |
| Odor threshold | : No data available |
| pH | : No data available |
| Melting point | : > 2500 °F |
| Freezing point | : No data available |
| Boiling point | : No data available |
| Flash point Relative evaporation rate (butyl acetate=1) | : No data available : No data available |
| Flammability (solid, gas) | : Not flammable. |
| Vapor pressure | : No data available |
| Relative vapor density at 20°C | · No data available |

Partition coefficient n-octanol/water (Log Pow)

Relative density Solubility

Relative vapor density at 20°C

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|---|--|
| Decomposition temperature : Viscosity, kinematic : Viscosity, dynamic : Explosion limits : Explosive properties : Oxidizing properties : | No data available No data available No data available No data available No data available No data available |
| 9.2. Other information | |
| No additional information available | |
| SECTION 10: Stability and reactivity | |
| 10.1. Reactivity | |
| Reacts exothermically with water (moisture). Reacts w generating heat. | ith water to form Ca(OH)2, Mg(OH)2, and heat. Reacts with acids to form calcium salts while |
| 10.2. Chemical stability | |
| No additional information available. | |
| 10.3. Possibility of hazardous reactions | |
| No additional information available | |
| 10.4. Conditions to avoid | |
| Water, humidity. | |
| 10.5. Incompatible materials | |
| Acids. | |
| 10.6. Hazardous decomposition products | |
| and (2) to advise that the chemical compounds produc | s note is as follows: (1) to apprise the customer/user of the potential for incomplete combustion, ed by incomplete combustion by poor air handling practices may exceed TLV's for specific air may be produced include but are not limited to: carbon monoxide, formaldehyde, phenol, |
| 11.1. Information on toxicological effects | |
| Acute toxicity (oral) : Acute toxicity (dermal) : Acute toxicity (inhalation) : | Not classified Not classified Not classified |
| Magnesium Oxide (1309-48-4) | |
| LD50 oral rat | > 5000 mg/kg (Rat, Literature study, Oral) |
| LD50 dermal rabbit | > 2000 mg/kg body weight (Rabbit, Literature study, Dermal) |
| calcium oxide (1305-78-8) | |
| LD50 oral rat | > 2000 mg/kg body weight (OECD 425: Acute Oral Toxicity: Up-and-Down Procedure, Rat, Female, Experimental value, Oral, 14 day(s)) |
| LD50 dermal rabbit | > 2500 mg/kg body weight (EU Method B.3: Acute toxicity (dermal), 24 h, Rabbit, Male / female, Experimental value, Dermal, 14 day(s)) |
| LC50 Inhalation - Rat | > 6.04 mg/l (OECD 436: Acute inhalation toxicity-acute toxic class method, 4 h, Rat, Male / female, Experimental value, Inhalation (dust), 15 day(s)) |
| graphite (7782-42-5) | |
| LD50 oral rat | > 2000 mg/kg (OECD 423: Acute Oral Toxicity – Acute Toxic Class Method, Rat, Female, Experimental value, Oral) |
| LC50 Inhalation - Rat | > 2000 mg/m ³ air (OECD 403: Acute Inhalation Toxicity, 4 h, Rat, Male / female, Experimental value, Inhalation (dust)) |
| Skin corrosion/irritation : | Causes severe skin burns. |
| Magnesium Oxide (1309-48-4) | |
| рН | 11 (10 %) |
| calcium oxide (1305-78-8) | |
| | |

pН

12.5 (0.13 %, 20 °C)

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| cristobalite (14464-46-1) | |
|---|--|
| рН | 6 – 7 |
| graphite (7782-42-5) | |
| рН | 7 (1.3 %) |
| Serious eye damage/irritation | : Assumed to cause serious eye damage |
| Magnesium Oxide (1309-48-4) | |
| рН | 11 (10 %) |
| calcium oxide (1305-78-8) | |
| рН | 12.5 (0.13 %, 20 °C) |
| cristobalite (14464-46-1) | |
| рН | 6 – 7 |
| graphite (7782-42-5) | |
| рН | 7 (1.3 %) |
| Respiratory or skin sensitization | : Not classified |
| Germ cell mutagenicity | : Not classified |
| Carcinogenicity | : May cause cancer (Dust when sawing or tear out, Inhalation). |
| Phenolic Resin (108-95-2) | 2. Nat alegaifichte |
| IARC group | 3 - Not classifiable : Not classified |
| Reproductive toxicity STOT-single exposure | : Not classified |
| STOT-repeated exposure | : Not classified |
| Aspiration hazard | : Not classified |
| Viscosity, kinematic | : No data available |
| Magnesium Oxide (1309-48-4) | |
| Viscosity, kinematic | Not applicable (solid) |
| calcium oxide (1305-78-8) | |
| Viscosity, kinematic | Not applicable (solid) |
| Symptoms/effects after skin contact Symptoms/effects after eye contact | : May cause moderate irritation. : Causes serious eye irritation. |
| SECTION 12: Ecological information | |
| 12.1. Toxicity | |
| calcium oxide (1305-78-8) | |
| LC50 - Fish [1] | 51 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Oncorhynchus mykiss, Static system, Fresh water, Read-across, GLP) |
| EC50 - Crustacea [1] | 49 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Read-across, Locomotor effect) |
| ErC50 algae | 185 mg/l (OECD 201: Alga, Growth Inhibition Test, 72 h, Pseudokirchneriella subcapitata, Static system, Fresh water, Read-across, GLP) |
| graphite (7782-42-5) | |
| LC50 - Fish [1] | > 100 mg/l (OECD 203: Fish, Acute Toxicity Test, 96 h, Danio rerio, Static system, Fresh water, Experimental value, Lethal) |
| EC50 - Crustacea [1] | > 100 mg/l (OECD 202: Daphnia sp. Acute Immobilisation Test, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Behaviour) |
| EC50 72h - Algae [1] | > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Growth rate) |

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| graphite (7782-42-5) | | |
|-------------------------------------|---|--|
| EC50 72h - Algae [2] | > 100 mg/l (OECD 201: Alga, Growth Inhibition Test, Pseudokirchneriella subcapitata, Static system, Fresh water, Experimental value, Cell numbers) | |
| 12.2. Persistence and degradability | | |
| Magnesium Oxide (1309-48-4) | | |
| Persistence and degradability | Not applicable. | |
| Chemical oxygen demand (COD) | Not applicable | |
| ThOD | Not applicable | |
| calcium oxide (1305-78-8) | | |
| Persistence and degradability | Biodegradability: not applicable. | |
| Chemical oxygen demand (COD) | Not applicable (inorganic) | |
| ThOD | Not applicable (inorganic) | |
| cristobalite (14464-46-1) | | |
| Persistence and degradability | Mineral. Not applicable. | |
| Chemical oxygen demand (COD) | Not applicable | |
| ThOD | Not applicable | |
| BOD (% of ThOD) | Not applicable | |
| graphite (7782-42-5) | | |
| Persistence and degradability | Biodegradability: not applicable. | |
| Chemical oxygen demand (COD) | Not applicable | |
| ThOD | Not applicable | |
| BOD (% of ThOD) | Not applicable | |
| 12.3. Bioaccumulative potential | | |
| Magnesium Oxide (1309-48-4) | | |
| Bioaccumulative potential | No bioaccumulation data available. | |
| calcium oxide (1305-78-8) | | |
| Bioaccumulative potential | Not bioaccumulative. | |
| cristobalite (14464-46-1) | | |
| Bioaccumulative potential | No data available. | |
| graphite (7782-42-5) | | |
| Bioaccumulative potential | Not bioaccumulative. | |
| 12.4. Mobility in soil | | |
| Magnesium Oxide (1309-48-4) | | |
| Surface tension | No data available in the literature | |
| Ecology - soil | No data available. | |
| calcium oxide (1305-78-8) | | |
| Surface tension | No data available in the literature | |
| Ecology - soil | No data available. | |
| cristobalite (14464-46-1) | | |
| Ecology - soil | No data available. | |

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|--|--|
| 12.5. Other adverse effects | |
| No additional information available | |
| SECTION 13: Disposal considerations | |
| 13.1. Disposal methods | |
| | Dispose in a safe manner in accordance with local/national regulations. |
| SECTION 14: Transport information | |
| In accordance with DOT / TDG / IMDG / IATA Department of Transportation (DOT) In accordance with DOT Not regulated Transportation of Dangerous Goods Not regulated Transport by sea Not regulated Air transport Not regulated | |
| SECTION 15: Regulatory information | |
| 15.1. US Federal regulations | |
| RG6-DOL (Mixture) | |
| Note | This information must be included in all SDS's that are copied and distributed for this material. |
| All components of this product are present and listed as (TSCA) inventory | s Active on the United States Environmental Protection Agency Toxic Substances Control Act |
| Phenolic Resin (108-95-2) | |
| Subject to reporting requirements of United States SAR Listed on EPA Hazardous Air Pollutant (HAPS) | A Section 313 |
| CERCLA RQ | 1000 lb |
| RQ (Reportable quantity, section 304 of EPA's List of Lists) | 1000 lb |
| SARA Section 302 Threshold Planning Quantity (TPQ) | 10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form |
| 15.2. International regulations | |
| CANADA | |
| Magnesium Oxide (1309-48-4) | |
| Listed on the Canadian DSL (Domestic Substances Lis | t) |
| calcium oxide (1305-78-8) | |
| Listed on the Canadian DSL (Domestic Substances Lis | t) |
| cristobalite (14464-46-1) | |
| Listed on the Canadian DSL (Domestic Substances Lis | t) |
| Phenolic Resin (108-95-2) | |

Listed on the Canadian DSL (Domestic Substances List)

graphite (7782-42-5)

Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

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National regulations

| No additional information available | |
|---|--|
| 15.3. US State regulations | |
| RG6-DOL (Mixture) | |
| U.S California - Proposition 65 - Other information | This product contains crystalline silica, a chemical known to the state of California to cause |
| | cancer.For more information go to WWW.P65Warnings.ca.gov |

| cristobalite (14464-4 | 6-1) | | | | |
|-----------------------|------------------------|-----------------------|-----------------------|---------------------|-------------------|
| U.S California - | U.S California - | U.S California - | U.S California - | No significant risk | Maximum allowable |
| Proposition 65 - | Proposition 65 - | Proposition 65 - | Proposition 65 - | level (NSRL) | dose level (MADL) |
| Carcinogens List | Developmental Toxicity | Reproductive Toxicity | Reproductive Toxicity | | |
| | | - Female | - Male | | |
| Yes | No | No | No | | |

| Component | State or local regulations |
|-------------------------------|---|
| Magnesium Oxide(1309-48-4) | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |
| calcium oxide(1305-78-8) | U.S New Jersey - Right to Know Hazardous Substance List |
| cristobalite(14464-46-1) | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |
| Phenolic Resin(108-95-2) | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |
| graphite(7782-42-5) | U.S Massachusetts - Right To Know List; U.S New Jersey - Right to Know Hazardous Substance List; U.S Pennsylvania - RTK (Right to Know) List |
| SECTION 16: Other information | |

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Report language name. English. In the event of any conflict between English and other language versions, the English version shall prevail.

| Full text of H-phrases | | |
|-----------------------------|--|--|
| H314 | H314 Causes severe skin burns and eye damage | |
| H350 May cause cancer | | |
| Safety Data Sheet (SDS) USA | | |

ata Sheet (SDS), USA

Other information

This information and recommendations set forth herein are taken from sources believed to be accurate as of the date herein, however, Resco Products, Inc. makes no warranty with respect to the accuracy of the information or the suitability of the recommendations, and assumes no liability to any user thereof.