

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations Date of issue: 05/01/2015 Supersedes: 03/25/2014

| SECTION 1: Identification of the subst | ance/mixture and of the company/u | ndertaking | |
|---|---|---|--|
| 1.1. Product identifier | | | |
| | Mixture | | |
| Product name : | R 85 DVM | | |
| CAS No : Product code : | Mixture | | |
| | 3109 Alumina-Silicate Dry Vibratable | | |
| | , | | |
| | nce or mixture and uses advised against Refractory | | |
| 1.3. Details of the supplier of the safety date | - | | |
| Resco Products, Inc. | | | |
| One Robinson Plaza, Suite 300 | | | |
| 6600 Steubenville Pike | | | |
| Pittsburgh, PA 15205 - United States | | | |
| 412-494-4491 www.rescoproducts.com | | | |
| | | | |
| 1.4. Emergency telephone number | | anada 1 800 40 | 4.0200 |
| Emergency number : | EMERGENCY ONLY (CHEMTREC) USA & C Outside USA & Canada +1 703-741-5970 | anaua 1-600-42 | 4-9300 |
| SECTION 2: Hazards identification | | | |
| 2.1. Classification of the substance or mixed | ture | | |
| GHS-US classification | | | |
| Not classified | | | |
| 2.2. Label elements | | | |
| GHS-US labelling | | | |
| Hazard pictograms (GHS-US) : | | | |
| | | | |
| | | | |
| | | | |
| | GHS07 GHS08 | | |
| Signal word (GHS-US) : | Danger | | |
| Hazard statements (GHS-US) : | H315 - Causes skin irritation | | |
| | H320 - Causes eye irritation | | |
| | H350 - May cause cancer (Inhalation) | | |
| Precautionary statements (GHS-US) : | P280 - Wear eye protection, Dust respirator, p | | |
| | P305+P351+P338 - If in eyes: Rinse cautiousl lenses, if present and easy to do. Continue rin | | several minutes. Remove contact |
| | P337+P313 - If eye irritation persists: Get med | | ntion |
| | P260 - Do not breathe dust | | |
| 2.3. Other hazards | | | |
| No additional information available | | | |
| 2.4. Unknown acute toxicity (GHS US) | | | |
| Not applicable | | | |
| SECTION 3: Composition/information | on ingredients | | |
| 3.1. Substance | | | |
| Not applicable | | | |
| 3.2. Mixture | | | |
| | | | |
| Name | Product identifier | % | GHS-US classification |
| | Product identifier (CAS No) 14464-46-1 | % 0.1 - 1 | GHS-US classification Carc. 1A, H350 |
| Name cristobalite | | | |
| Name cristobalite Full text of H-phrases: see section 16 | | | |
| Name cristobalite Full text of H-phrases: see section 16 SECTION 4: First aid measures | | | |
| Name cristobalite Full text of H-phrases: see section 16 SECTION 4: First aid measures 4.1. Description of first aid measures | (CAS No) 14464-46-1 | 0.1 - 1 | Carc. 1A, H350 |
| Name cristobalite Full text of H-phrases: see section 16 SECTION 4: First aid measures 4.1. Description of first aid measures | (CAS No) 14464-46-1 Never give anything by mouth to an unconscio | 0.1 - 1 | Carc. 1A, H350 |
| Name cristobalite Full text of H-phrases: see section 16 SECTION 4: First aid measures 4.1. Description of first aid measures | (CAS No) 14464-46-1 | 0.1 - 1 us person. If yo | Carc. 1A, H350 |
| Name cristobalite Full text of H-phrases: see section 16 SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : First-aid measures after inhalation : First-aid measures after skin contact : | (CAS No) 14464-46-1 Never give anything by mouth to an unconscio advice (show the label where possible). Allow victim to breathe fresh air. Allow the vict Gently wash with plenty of soap and water. | 0.1 - 1 us person. If yo m to rest. | Carc. 1A, H350 u feel unwell, seek medical |
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| Name cristobalite Full text of H-phrases: see section 16 SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : First-aid measures after inhalation : First-aid measures after skin contact : First-aid measures after eye contact : First-aid measures after ingestion : | (CAS No) 14464-46-1 Never give anything by mouth to an unconscio advice (show the label where possible). Allow victim to breathe fresh air. Allow the vict Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for se and easy to do. Continue rinsing. Rinse mouth. Do NOT induce vomiting. Obtain | 0.1 - 1 us person. If yo m to rest. veral minutes. | Carc. 1A, H350 nu feel unwell, seek medical Remove contact lenses, if present |
| Name cristobalite Full text of H-phrases: see section 16 SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general First-aid measures after inhalation First-aid measures after skin contact First-aid measures after eye contact First-aid measures after ingestion State and measures after ingestion First-aid measures after symptoms and effects | (CAS No) 14464-46-1 Never give anything by mouth to an unconscio advice (show the label where possible). Allow victim to breathe fresh air. Allow the vict Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for se and easy to do. Continue rinsing. Rinse mouth. Do NOT induce vomiting. Obtair both acute and delayed | 0.1 - 1 us person. If yo m to rest. veral minutes. I emergency me | Carc. 1A, H350 au feel unwell, seek medical Remove contact lenses, if present adical attention. |
| Name cristobalite Full text of H-phrases: see section 16 SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : First-aid measures after inhalation : First-aid measures after skin contact : First-aid measures after eye contact : First-aid measures after ingestion : All measures after ingestion : All measures after ingestion : | (CAS No) 14464-46-1 Never give anything by mouth to an unconscio advice (show the label where possible). Allow victim to breathe fresh air. Allow the vict Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for se and easy to do. Continue rinsing. Rinse mouth. Do NOT induce vomiting. Obtair both acute and delayed May cause cancer by inhalation. Danger of se | 0.1 - 1 us person. If yo m to rest. veral minutes. I emergency me | Carc. 1A, H350 au feel unwell, seek medical Remove contact lenses, if present adical attention. |
| Name cristobalite Full text of H-phrases: see section 16 SECTION 4: First aid measures 4.1. Description of first aid measures First-aid measures general : First-aid measures after inhalation : First-aid measures after skin contact : First-aid measures after eye contact : First-aid measures after ingestion : All measures after ingestion : All measures after ingestion : | (CAS No) 14464-46-1 Never give anything by mouth to an unconscio advice (show the label where possible). Allow victim to breathe fresh air. Allow the vict Gently wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for se and easy to do. Continue rinsing. Rinse mouth. Do NOT induce vomiting. Obtair both acute and delayed | 0.1 - 1 us person. If yo m to rest. veral minutes. I emergency me | Carc. 1A, H350 au feel unwell, seek medical Remove contact lenses, if present adical attention. |

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|---|---|---|---|--|
| Symptoms/injuries after skin con Symptoms/injuries after eye cor | | Causes skin irritation. Causes eye irritation. | | |
| No additional information availa | ble | tention and special treatment neede | d | |
| SECTION 5: Firefighting | | | | |
| 5.1. Extinguishing media | | | | |
| Suitable extinguishing media Unsuitable extinguishing media | | Use extinguishing media appropriate f No unsuitable extinguishing media know | | |
| 5.2. Special hazards aris | | | | |
| Fire hazard | | Not flammable. | | |
| Reactivity | | None known. | | |
| 5.3. Advice for firefighte | | | | |
| Firefighting instructions | | No specific fire-fighting instructions re- | | |
| Protection during firefighting SECTION 6: Accidental | | | protective equipment, including respiratory protection. | |
| | | | | |
| 6.1.1. For non-emergency | personnel | ment and emergency procedures | | |
| Emergency procedures | | Do not breathe dust. | | |
| 6.1.2. For emergency resp Protective equipment | | Equip cleanup crew with proper protect | ction | |
| Emergency procedures | | Ventilate area. | | |
| 6.2. Environmental preca | | | | |
| No additional information availa | ble | | | |
| 6.3. Methods and materia | | | | |
| For containment Methods for cleaning up | | Collect spillage. | e containers. Minimize generation of dust. | |
| 0 1 | | On land, sweep of shover linto suitable | e containers. Minimize generation of dust. | |
| 6.4. Reference to other s | | | | |
| See Heading 8. Exposure control | | Direction. | | |
| SECTION 7: Handling a | | | | |
| 7.1. Precautions for safe | | | | |
| Precautions for safe handling | : | | ons have been read and understood. Avoid raising dust. | |
| Hygiopo mogsuros | | Avoid contact with skin and eyes. Do | | |
| Tygiene measures | Hygiene measures : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. | | | |
| 7.2. Conditions for safe | | any incompatibilities | | |
| Storage conditions | : | Store in a dry place. | | |
| 7.3. Specific end use(s) | | | | |
| No additional information availa | | | | |
| SECTION 8: Exposure c | ontrols/person | al protection | | |
| 8.1. Control parameters R 85 DVM (Mixture) | | | | |
| ACGIH | Not applicable | | | |
| | | | | |
| OSHA | Not applicable | | | |
| cristobalite (14464-46-1) | | | | |
| ACGIH | ACGIH TWA (mg/ | ′m³) | 0.025 mg/m ³ respirable dust | |
| OSHA | OSHA PEL (TWA |) (mg/m³) | 0.05 mg/m ³ respirable dust | |
| 0.0 Europeuro control | · · · | | | |
| 8.2. Exposure controls Personal protective equipment | | Avoid all unnecessary exposure. | | |
| Hand protection | | Wear protective gloves. | | |
| Eye protection | | Chemical goggles or safety glasses. | | |
| Skin and body protection | : | Wear suitable protective clothing. | | |
| Respiratory protection | : | Wear appropriate mask. | | |
| Other information | | Do not eat, drink or smoke during use | | |
| SECTION 9: Physical ar | nd chemical pro | operties | | |
| 9.1. Information on basic Physical state | | mical properties Solid | | |
| Appearance | | Granular mixture. | | |
| Colour | : | brown | | |
| Odour | : | odourless | | |
| Odour threshold | : | Not applicable | | |
| рН | | No data available | | |
| 04/21/2015 | • | EN (English) | 2/5 | |
| UT/21/2013 | | ะเข (ะแขแอน) | 2/5 | |

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|---|--|
| Melting point | : > 3000 °F |
| Freezing point | : Not applicable |
| Boiling point | : Not applicable |
| Critical temperature Critical pressure Flash point | : Not applicable : Not applicable : Not applicable |
| Relative evaporation rate (butylacetate=1) | : Not applicable |
| Relative evaporation rate (ether=1) | : Not applicable |
| Flammability (solid, gas) | : None |
| Explosive limits | : Not applicable |
| xplosive properties | : No data available |
| Dxidising properties | : No data available |
| /apour pressure | : Not Applicable |
| /apour pressure at 50 °C Relative density | : Not Applicable : ≈ 2.4 |
| Relative vapour density at 20 °C | : No data available |
| Solubility | : Water: None |
| Log Pow | : No data available |
| log Kow | : No data available |
| Auto-ignition temperature | : Not applicable |
| Decomposition temperature | : No data available |
| /iscosity | : Not Applicable |
| iscosity, kinematic | : Not Applicable |
| /iscosity, dynamic | : Not Applicable |
| .2. Other information | |
| No additional information available | |
| 10.1. Reactivity | |
| None known. | |
| 0.2. Chemical stability | |
| Stable under normal conditions.0.3.Possibility of hazardous reactions | |
| Not established. | |
| 0.4. Conditions to avoid | |
| Void dust formation. 0.5. Incompatible materials | |
| lo additional information available | |
| 0.6. Hazardous decomposition products | |
| No additional information available SECTION 11: Toxicological informat | ion |
| 1.1. Information on toxicological effects | |
| ikely routes of exposure | : Inhalation |
| cute toxicity Skin corrosion/irritation | : Not classified : Not classified |
| Serious eye damage/irritation | : Not classified |
| Respiratory or skin sensitisation | : Not classified |
| Germ cell mutagenicity Carcinogenicity | : Not classified : Not classified |
| cristobalite (14464-46-1) | |
| IARC group | 1 - Carcinogenic to humans |
| Reproductive toxicity | : Not classified |
| Specific target organ toxicity (single exposure) | : Not classified |
| Specific target organ toxicity (repeated xposure) | : Not classified |
| Aspiration hazard Potential adverse human health effects and | : Not classified : Based on available data, the classification criteria are not met. |
| symptoms | . במסכי היו מימוומטור שמנמ, ווור המססוורפעורו הווכרום מוב דוסו דווכו. |
| Symptoms/injuries after inhalation | : May cause cancer by inhalation. Danger of serious damage to health by prolonged exposure through inhalation. |
| Symptoms/injuries after skin contact Symptoms/injuries after eye contact | : Causes skin irritation. : Causes eye irritation. |
| 04/21/2015 | EN (English) 3/5 |
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|--|---|--|--|
| SECTION 12: Ecological information | | | |
| 12.1. Toxicity | | | |
| No additional information available 12.2. Persistence and degradability | | | |
| R 85 DVM (Mixture) | | | |
| Persistence and degradability | Not established. | | |
| | | | |
| cristobalite (14464-46-1) | | | |
| Persistence and degradability | Biodegradability: not applicable. | | |
| Biochemical oxygen demand (BOD) | Not applicable | | |
| Chemical oxygen demand (COD) | Not applicable | | |
| ThOD | Not applicable | | |
| BOD (% of ThOD) | Not applicable | | |
| 12.3. Bioaccumulative potential | | | |
| R 85 DVM (Mixture) | | | |
| Bioaccumulative potential | Not established. | | |
| cristobalite (14464-46-1) | | | |
| Log Pow | Not applicable | | |
| Bioaccumulative potential | No bioaccumulation data available. | | |
| | | | |
| 12.4. Mobility in soil No additional information available | | | |
| 12.5. Other adverse effects | | | |
| | : No known ecological damage caused by this product. | | |
| | None known | | |
| | : Avoid release to the environment. | | |
| SECTION 13: Disposal considerations | | | |
| 13.1. Waste treatment methods | | | |
| Waste disposal recommendations | Dispose in a safe manner in accordance with local/national regulations. | | |
| Ecology - waste materials SECTION 14: Transport information | : Avoid release to the environment. | | |
| | | | |
| Department of Transportation (DOT) In accordance with DOT | | | |
| Not regulated for transport | | | |
| Additional information | | | |
| | : No supplementary information available. | | |
| ADR No additional information available | | | |
| Transport by sea | | | |
| No additional information available | | | |
| Air transport | | | |
| No additional information available | | | |
| SECTION 15: Regulatory information | | | |
| 15.1. US Federal regulations | | | |
| cristobalite (14464-46-1) | | | |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory | | | |
| 15.2. International regulations | | | |
| | | | |
| R 85 DVM (Mixture) | | | |
| | DOA | | |
| WHMIS Classification | D2A | | |
| EU-Regulations | D2A | | |
| EU-Regulations No additional information available | | | |
| EU-Regulations No additional information available Classification according to Regulation (EC) No No additional information available | . 1272/2008 [CLP] | | |
| EU-Regulations No additional information available Classification according to Regulation (EC) No No additional information available Classification according to Directive 67/548/EE | . 1272/2008 [CLP] | | |
| EU-Regulations No additional information available Classification according to Regulation (EC) No No additional information available Classification according to Directive 67/548/EE Not classified | . 1272/2008 [CLP] | | |
| EU-Regulations No additional information available Classification according to Regulation (EC) No No additional information available Classification according to Directive 67/548/EE Not classified National regulations | . 1272/2008 [CLP] | | |
| EU-Regulations No additional information available Classification according to Regulation (EC) No No additional information available Classification according to Directive 67/548/EE Not classified | . 1272/2008 [CLP] | | |
| EU-Regulations No additional information available Classification according to Regulation (EC) No No additional information available Classification according to Directive 67/548/EE Not classified National regulations No additional information available | . 1272/2008 [CLP] | | |
| EU-Regulations No additional information available Classification according to Regulation (EC) No No additional information available Classification according to Directive 67/548/EE Not classified National regulations No additional information available 15.3. US State regulations | . 1272/2008 [CLP] | | |
| EU-Regulations No additional information available Classification according to Regulation (EC) No No additional information available Classification according to Directive 67/548/EE Not classified National regulations No additional information available 15.3. US State regulations R 85 DVM(Mixture) | . 1272/2008 [CLP] C [DSD] or 1999/45/EC [DPD] | | |

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| cristobalite (14464-46-1) | | | | | |
|--|--|---|---|--------------------------------------|--|
| U.S California - Proposition 65 - Carcinogens List | U.S California - Proposition 65 - Developmental Toxicity | U.S California - Proposition 65 - Reproductive Toxicity - Female | U.S California - Proposition 65 - Reproductive Toxicity - Male | No significance risk level (NSRL) | |
| Yes | No | No | No | | |
| cristobalite (14464-46-1) | | | | | |
| U.S New Jersey - Right to Know Hazardous Substance List | | | | | |
| SECTION 16: Other information | | | | | |
| Other information | : Nono | | | | |

Other information Full text of H-phrases:

| : | None. | |
|---|-------|--|
| | | |

| Carc. 1A | Carcinogenicity, Category 1A | |
|----------|------------------------------|--|
| H350 | May cause cancer | |
| | | |

SDS US (GHS HazCom 2012) 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.