

SAFETY DATA SHEET

1. Identification

| Product identifier | Elevate ISO Twin Pack Insulation Adhesive (Part A) | | |
|----------------------------------|---|--|--|
| Other means of identification | | | |
| Product code | W56RACINTA | | |
| Recommended use | Construction. Adhesive. | | |
| Recommended restrictions | None known. | | |
| Manufacturer/Importer/Supplier/I | Distributor information | | |
| Distributed by | Holcim Solutions and Products US, LLC | | |
| Address | 26 Century Boulevard, Suite 205 | | |
| | Nashville, TN 37214 | | |
| | Elevate™ is a Holcim Solutions and Products US, LLC brand. | | |
| Website | holcimelevate.com | | |
| Telephone Number | 1-800-428-4442 | | |
| Emergency Telephone Number | For Chemical Emergency, Spill, Leak, Fire, Exposure, or Incident: | | |
| | CHEMTREC within USA and Canada: 1-800-424-9300 | | |
| | CHEMTREC outside USA and Canada: +1 703-527-3887 (collect calls accepted) | | |

2. Hazard(s) identification

| Physical hazards | Not classified. | |
|----------------------|--|---|
| Health hazards | Acute toxicity, inhalation | Category 4 |
| | Skin corrosion/irritation | Category 2 |
| | Serious eye damage/eye irritation | Category 2A |
| | Sensitization, respiratory | Category 1 |
| | Sensitization, skin | Category 1 |
| | Carcinogenicity | Category 2 |
| | Specific target organ toxicity, single exposure | Category 3 respiratory tract irritation |
| | Specific target organ toxicity, repeated exposure (inhalation) | Category 2 (lungs) |
| OSHA defined hazards | Not classified. | |

OSHA defined hazards

Signal word

Hazard statement

Label elements



Danger

Causes skin irritation. May cause an allergic skin reaction. Causes serious eye irritation. Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause respiratory irritation. Suspected of causing cancer. May cause damage to organs (lungs) through prolonged or repeated exposure by inhalation.

Precautionary statement Prevention

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Contaminated work clothing must not be allowed out of the workplace. Wear protective gloves/protective clothing/eye protection/face protection. In case of inadequate ventilation wear respiratory protection.

| Response | If on skin: Wash with plenty of water. If inhaled: Remove person to fresh air and keep comfortable for breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If exposed or concerned: Get medical advice/attention. If skin irritation or rash occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. If experiencing respiratory symptoms: Call a poison center/doctor. Take off contaminated clothing and wash it before reuse. | | |
|--|--|--|--|
| Storage | Store in a well-ventilated place. Keep container tightly closed. Store locked up. | | |
| Disposal | Dispose of contents/container in accordance with local/regional/national/international regulations. | | |
| Hazard(s) not otherwise classified (HNOC) | None known. | | |
| Supplemental information | None. | | |

3. Composition/information on ingredients

Mixtures

| Chemical name | | CAS number | % |
|--|--|--|---|
| Polymethylene polyphenylene isocyanate | | 9016-87-9 | 25 - 50 |
| 4,4'-methylenediphenyl Diisocyanate | | 101-68-8 | 25 - 50 |
| Composition comments | All concentrations are in percent by weight u Any concentration shown as a range is to pr | unless otherwise indicated. otect confidentiality or is due to | batch variation. |
| 4. First-aid measures | | | |
| Inhalation | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Oxygen or artificial respiration if needed. Do not use mouth-to-mouth method if victim inhaled the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If experiencing respiratory symptoms: Call a poison center or doctor/physician. | | |
| Skin contact | Remove contaminated clothing immediately and wash skin with soap and water. In case of eczema or other skin disorders: Seek medical attention and take along these instructions. Wash contaminated clothing before reuse. | | |
| Eye contact | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. | | |
| Ingestion | Rinse mouth. Get medical attention if symptom | oms occur. | |
| Most important symptoms/effects, acute and delayed | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects. | | |
| Indication of immediate medical attention and special treatment needed | Provide general supportive measures and treat symptomatically. Keep victim warm. Keep victim under observation. Symptoms may be delayed. | | |
| General information | IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Wash contaminated clothing before reuse. | | |
| 5. Fire-fighting measures | | | |
| Suitable extinguishing media | Powder. Carbon dioxide (CO2). Water spray may be used if no other source is available and then in copious quantities. Reaction between water and hot isocyanate may be vigorous. | | |
| Unsuitable extinguishing media | Do not use water unless flooding amounts are available. Do not use water jet as an extinguisher, as this will spread the fire. | | |
| Specific hazards arising from the chemical | Containers may rupture or explode if exposed to heat. During fire, gases hazardous to health may be formed such as: Carbon oxides (COx). Nitrogen Oxides (NOx). Isocyanates. Hydrogen cyanide. | | |
| Special protective equipment and precautions for firefighters | Self-contained breathing apparatus and full | protective clothing must be worr | n in case of fire. |
| Fire fighting equipment/instructions | In case of fire and/or explosion do not breath so without risk. Cool containers with flooding | ne fumes. Move containers from g quantities of water until well aft | fire area if you can do ter fire is out. |
| Specific methods | Use standard firefighting procedures and con | nsider the hazards of other invo | lved materials. |
| General fire hazards | Will burn if involved in a fire. | | |

6. Accidental release measures

| Personal precautions, protective equipment and emergency procedures | Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist/vapors. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be |
|---|---|
| | contained. For personal protection, see section 8 of the SDS. |
| Methods and materials for containment and cleaning up | The product is immiscible with water and will spread on the water surface. |
| | Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use neutralizing agent. |
| | 1. A mixture of 90% water. 3-8% ammonium hydroxide or concentrated ammonia, and 2% liquid detergent. |
| | 2. A mixture of 80% water, 20% non-ionic surfactant. |
| | decontaminated. Apply drum lid but DO NOT secure. Let containers vent for 72 hours allowing carbon dioxide to escape. Secure drum lid. |
| | Following product recovery, flush area with water. Reacts with water and emits carbon dioxide gas. Retain and dispose of contaminated wash water. Store in closed, unsealed containers. |
| | For waste disposal, see section 13 of the SDS. |
| Environmental precautions | Avoid discharge into drains, water courses or onto the ground. |
| 7. Handling and storage | |
| Precautions for safe handling | Persons already sensitized to diisocyanates may develop allergic reactions when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breathe mist/vapors. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Observe good industrial hygiene practices. |
| Conditions for safe storage, including any incompatibilities | Store locked up. Store in tightly closed container. Protect from moisture. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS). Storage temperature: 0-32°C (32-90°F). |

8. Exposure controls/personal protection

Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

| Components | Туре | , Value | |
|--|--|------------|--|
| 4,4'-methylenediphenyl Diisocyanate (CAS 101-68-8) | Ceiling | 0.2 mg/m3 | |
| | | 0.02 ppm | |
| US. ACGIH Threshold Limit Va | lues | | |
| Components | Туре | Value | |
| 4,4'-methylenediphenyl Diisocyanate (CAS 101-68-8) | TWA | 0.005 ppm | |
| US. NIOSH: Pocket Guide to Cl | nemical Hazards | | |
| Components | Туре | Value | |
| 4,4'-methylenediphenyl Diisocyanate (CAS 101-68-8) | Ceiling | 0.2 mg/m3 | |
| | | 0.02 ppm | |
| | TWA | 0.05 mg/m3 | |
| | | 0.005 ppm | |
| logical limit values | No biological exposure limits noted for the ingredient(s). | | |

| Appropriate engineering controls | Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. General ventilation normally adequate. Provide eyewash station and safety shower. |
|-----------------------------------|---|
| Individual protection measure | es, such as personal protective equipment |
| Eye/face protection | Wear approved chemical safety goggles. |
| Skin protection | |
| Hand protection | Wear appropriate chemical resistant gloves. Examples of preferred glove barrier materials include: Nitrile rubber. Butyl rubber. Chloroprene rubber. Suitable gloves can be recommended by the glove supplier. |
| Skin protection | |
| Other | Wear appropriate chemical resistant clothing. Use of an impervious apron is recommended. |
| Respiratory protection | If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Organic vapor cartridge with a particulate pre-filter. Appropriate respirator selection should be made by a qualified professional. |
| Thermal hazards | Wear appropriate thermal protective clothing, when necessary. |
| General hygiene considerations | Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace. |

9. Physical and chemical properties

| Appearance | | |
|--|---|--|
| Physical state | Liquid. | |
| Form | Liquid. | |
| Color | Off-white - Light amber. | |
| Odor | Slight aromatic | |
| Odor threshold | Not available. | |
| рН | Not determined; product is not soluble in water. | |
| Melting point/freezing point | Not determined. | |
| Initial boiling point and boiling range | Not determined. | |
| Flash point | 348.8 °F (176 °C) | |
| Evaporation rate | Not available. | |
| Flammability (solid, gas) | Not applicable. | |
| Upper/lower flammability or explosive limits | | |
| Explosive limit - lower (%) | Not determined. | |
| Explosive limit - upper (%) | Not determined. | |
| Vapor pressure | 0 mm Hg | |
| Vapor density | Not determined. | |
| Relative density | Not determined. | |
| Solubility(ies) | | |
| Solubility (water) | Insoluble. | |
| Partition coefficient (n-octanol/water) | Not applicable, product is a mixture. | |
| Auto-ignition temperature | Not self-igniting. | |
| Decomposition temperature | Not applicable as the product is not unstable. | |
| Viscosity | Not available. | |
| Other information | Ignition temperature: 752 °F (400 °C) Organic solvents: 0% | |
| Density | 9.3463 lb/gal (68 °F (20 °C)) 1.12 g/cm³ (68 °F (20 °C)) | |

| Explosive properties | Not explosive. |
|----------------------|-----------------|
| Kinematic viscosity | Not determined. |
| Oxidizing properties | Not oxidizing. |

10. Stability and reactivity

| Reactivity | The product is stable and non-reactive under normal conditions of use, storage and transport. | | |
|-------------------------------------|--|--|--|
| Chemical stability | Material is stable under normal conditions. | | |
| Possibility of hazardous reactions | Diisocyanates react with many materials and the rate of reaction increases with temperature as well as increased contact; these reactions can become violent. Contact is increased with stirring or if the other material mixes with the diisocyanate. Diisocyanates are not soluble in water and sink to the bottom, but react slowly at the interface. The reaction forms carbon dioxide gas and a layer of solid polyurea. Reaction with water will generate carbon dioxide and heat. | | |
| Conditions to avoid | Avoid high temperatures. Moisture. Humidity. Contact with incompatible materials. | | |
| Incompatible materials | Water. Strong oxidizing agents. Acids. Alkaline metals. Alcohols. Amines. Ammonia. Phenols. Bases. | | |
| Hazardous decomposition products | Fire or excessive heat may produce hazardous decomposition products. For hazardous combustion products, see section 5. | | |

11. Toxicological information

Information on likely routes of exposure

| Inhalation | Harmful if inhaled. May cause respiratory irritation. May cause damage to organs through prolonged or repeated exposure by inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |
|--|--|--|
| Skin contact | Causes skin irritation. May cause an allergic skin reaction. | |
| Eye contact | Causes serious eye irritation. | |
| Ingestion | May cause discomfort if swallowed. However, ingestion is not likely to be a primary route of occupational exposure. | |
| Symptoms related to the physical, chemical and toxicological characteristics | Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Coughing. Difficulty in breathing. Skin irritation. May cause redness and pain. May cause an allergic skin reaction. Dermatitis. Rash. Prolonged exposure may cause chronic effects. | |

Information on toxicological effects

| Acute toxicity | Harmful if inhaled. | Harmful if inhaled. | |
|-----------------------------------|--------------------------------------|--|--|
| Components | Species | Test Results | |
| 4,4'-methylenediphenyl Diisocy | vanate (CAS 101-68-8) | | |
| Acute | | | |
| Inhalation | | | |
| Aerosol | | | |
| LC50 | Rat | 431 mg/m³, 4 Hours | |
| Oral | | | |
| LD50 | Rat | > 2000 mg/kg | |
| Polymethylene polyphenylene | isocyanate (CAS 9016-87-9) | | |
| Acute | | | |
| Dermal | | | |
| LD50 | Rabbit | > 10000 mg/kg | |
| Inhalation | | | |
| Mist | | | |
| LC50 | Rat | > 490 mg/m3, 4 Hours | |
| Oral | | | |
| LD50 | Rat | > 10000 mg/kg | |
| Skin corrosion/irritation | Causes skin irritation. | | |
| Serious eye damage/eye irritation | Causes serious eye irritation. | | |
| Respiratory or skin sensitiza | tion | | |
| Respiratory sensitizatior | May cause allergy or asthma symptoms | May cause allergy or asthma symptoms or breathing difficulties if inhaled. | |

| Skin sensitization | May cause an allergic skin reaction. | | |
|---|--|---|--|
| Germ cell mutagenicity | No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. | | |
| Carcinogenicity | Suspected of causing cancer. | | |
| IARC Monographs. Overall E | valuation of Carcinogenicity | | |
| 4,4'-methylenediphenyl Di Polymethylene polyphenyl (CAS 9016-87-9) NTP Report on Carcinogens | isocyanate (CAS 101-68-8) ene isocyanate | 3 Not classifiable as to carcinogenicity to humans.3 Not classifiable as to carcinogenicity to humans. | |
| Not listed. | | | |
| OSHA Specifically Regulated | I Substances (29 CFR 1910.10 | 01-1053) | |
| Not listed. | | | |
| Reproductive toxicity | This product is not expected to cause reproductive or developmental effects. | | |
| Specific target organ toxicity - single exposure | May cause respiratory irritation | | |
| Specific target organ toxicity - repeated exposure | May cause damage to organs (lungs) through prolonged or repeated exposure by inhalation. | | |
| Aspiration hazard | Not an aspiration hazard. | | |
| Chronic effects | Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure. | | |
| 12. Ecological information | | | |
| Ecotoxicity | The product is not classified as possibility that large or frequen | environmentally hazardous. However, this does not exclude the t spills can have a harmful or damaging effect on the environment. | |
| Persistence and degradability | No data is available on the degradability of this product. | | |
| Bioaccumulative potential | No data available. | | |
| Partition coefficient n-octand 4,4'-methylenediphenyl Diisocy | o l / water (log Kow) /anate (CAS 101-68-8) | 5.22 | |
| Mobility in soil | The product is immiscible with | water and will sediment in water systems. | |
| Other adverse effects | No other adverse environmenta potential, endocrine disruption, | al effects (e.g. ozone depletion, photochemical ozone creation global warming potential) are expected from this component. | |
| 13. Disposal consideration | s | | |
| Disposal instructions | Collect and reclaim or dispose incinerate sealed containers. D local/regional/national/international | in sealed containers at licensed waste disposal site. Do not ispose of contents/container in accordance with onal regulations. | |
| Local disposal regulations | Dispose in accordance with all | applicable regulations. | |
| Hazardous waste code | The waste code should be assigned in discussion between the user, the producer and the waste disposal company. | | |
| Waste from residues / unused products | Dispose in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions). | | |
| Contaminated packaging | Since emptied containers may emptied. Empty containers sho disposal. | retain product residue, follow label warnings even after container is uld be taken to an approved waste handling site for recycling or | |

14. Transport information

DOT

Not regulated as dangerous goods.

ΙΑΤΑ

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

Transport in bulk according to Not established. Annex II of MARPOL 73/78 and

the IBC Code

15. Regulatory information

| US federal regulations | This product is a "H Standard, 29 CFR | Hazardous C 1910.1200. | Chemical" as d | efined by the OSHA Hazard Comm | unication | |
|---|--|--|--|---|-----------------|--|
| TSCA Section 12(b) Ex | port Notification (40 | CFR 707, S | Subpt. D) | | | |
| Not regulated. | | | | | | |
| TSCA Chemical Action | Plans, Chemicals o | f Concern | | | | |
| 4,4'-methylenediphe | 4,4'-methylenediphenyl Diisocyanate (CAS | | Methylene Di Action Plan [I | phenyl Diisocyanate (MDI) And Rel RIN 2070-ZA15] | ated Compounds | |
| Polymethylene poly (CAS 9016-87-9) | Polymethylene polyphenylene isocyanate (CAS 9016-87-9) | | Methylene Di Action Plan [| phenyl Diisocyanate (MDI) And Rel RIN 2070-ZA15] | ated Compounds | |
| CERCLA Hazardous Su | ubstance List (40 CF | R 302.4) | | | | |
| 4,4'-methylenediphe SARA 304 Emergency | enyl Diisocyanate (CA release notification | S 101-68-8) | Listed. | | | |
| Not regulated. OSHA Specifically Reg | ulated Substances (| 29 CFR 191 | 0.1001-1053) | | | |
| Not listed. | · | | - | | | |
| Toxic Substances Control | Act (TSCA) | All com "active" | All components of the mixture on the TSCA 8(b) inventory are designated "active". | | | |
| Superfund Amendments and Ro SARA 302 Extremely hazar Not listed. | eauthorization Act o dous substance | f 1986 (SAF | (A) | | | |
| SARA 311/312 Hazardous chemical | Yes | | | | | |
| Classified hazard categories | Acute toxicity (any Skin corrosion or ir Serious eye damag Respiratory or skin Carcinogenicity Specific target orga | route of exp ritation ge or eye irri sensitizatio an toxicity (s | oosure) itation n ingle or repeat | ted exposure) | | |
| SARA 313 (TRI reporting) | opoonio targot orge | | ingle el lepeu | | | |
| Chemical name | | CAS | number | % by wt. | | |
| 4,4'-methylenediphenyl I Polymethylene polyphen | Diisocyanate Iylene isocyanate | 101- 9010 | -68-8 6-87-9 | 25 - 50 25 - 50 25 - 50 | | |
| Other federal regulations | | | | | | |
| Clean Air Act (CAA) Section | n 112 Hazardous Air | Pollutants | (HAPs) List | | | |
| 4,4'-methylenediphenyl [Clean Air Act (CAA) Section | Diisocyanate (CAS 10 n 112(r) Accidental F | 1-68-8) Release Pre | vention (40 C | FR 68.130) | | |
| Not regulated. | | | | | | |
| Safe Drinking Water Act (SDWA) | Not regulated. | | | | | |
| US state regulations | | | | | | |
| US. Massachusetts RTK - S | Substance List | | | | | |
| 4,4'-methylenediphenyl I US. New Jersey Worker and | Diisocyanate (CAS 10 d Community Right- | 1-68-8) t o-Know Ac | :t | | | |
| 4,4'-methylenediphenyl I Polymethylene polyphen | Diisocyanate (CAS 10 Iylene isocyanate (CA | 1-68-8) S 9016-87-9 | 9) | | | |
| US. Pennsylvania worker a | Ind Community Righ | t-to-Know | Law | | | |
| US. Rhode Island RTK | Diisocyanate (CAS 10 | 1-68-8) | | | | |
| 4,4'-methylenediphenyl | Diisocyanate (CAS 10 | 1-68-8) | | | | |
| California Proposition 65 | | | | | | |
| California Safe Drinking is not known to contain a more information go to w | Water and Toxic Enfo any chemicals current /ww.P65Warnings.ca. | rcement Ac ly listed as c gov. | t of 1986 (Prop arcinogens or | oosition 65): This material reproductive toxins. For | | |
| US. California. Candida subd. (a)) | ate Chemicals List. S | Safer Consu | Imer Products | s Regulations (Cal. Code Regs, tit | t. 22, 69502.3, | |
| 4,4'-methylenediphe | enyl Diisocyanate (CA | S 101-68-8) | | | | |

International Inventories

| Country(s) or region | Inventory name | On inventory (yes/no)* |
|-----------------------------|---|------------------------|
| Australia | Australian Inventory of Industrial Chemicals (AICIS) | Yes |
| Canada | Domestic Substances List (DSL) | Yes |
| Canada | Non-Domestic Substances List (NDSL) | No |
| China | Inventory of Existing Chemical Substances in China (IECSC) | Yes |
| Japan | Inventory of Existing and New Chemical Substances (ENCS) | No |
| Korea | Existing Chemicals List (ECL) | Yes |
| New Zealand | New Zealand Inventory | Yes |
| Philippines | Philippine Inventory of Chemicals and Chemical Substances (PICCS) | Yes |
| Taiwan | Taiwan Chemical Substance Inventory (TCSI) | Yes |
| United States & Puerto Rico | Toxic Substances Control Act (TSCA) Inventory | Yes |

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s) A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

| Issue date | 30-January-2023 |
|---------------|--|
| Revision date | - |
| Version # | 01 |
| HMIS® ratings | Health: 2* Flammability: 1 Physical hazard: 0 |
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