

## 1. Identification

|   |  |
|---|--|
| <b>Product identifier</b>                                     | <b>GenFlex EPDM Bonding Adhesive LVOC</b>  |
| <b>Other means of identification</b>                          |  |
| <b>Product code</b>   | W590010174   |
| <b>Recommended use</b>  | Construction. Adhesive.  |
| <b>Recommended restrictions</b>                               | Uses other than the recommended use.   |
| <b>Manufacturer/Importer/Supplier/Distributor information</b> |  |
| <b>Distributed by</b>   | Holcim Solutions and Products US, LLC  |
| <b>Address</b>  | 26 Century Boulevard, Suite 205<br>Nashville, TN 37214<br>GenFlex™ is a Holcim Solutions and Products US, LLC brand  |
| <b>Website</b>  | Genflex.com  |
| <b>Telephone Number</b>                                       | Technical: 1-800-443-4272  |
| <b>Emergency Telephone Number</b>                             | For Chemical Emergency, Spill, Leak, Fire, Exposure, or Incident:<br><br>CHEMTREC within USA and Canada: 1-800-424-9300<br>CHEMTREC outside USA and Canada: +1 703-527-3887 (collect calls accepted) |

## 2. Hazard(s) identification

|                              |  |   |
|------------------------------|--|---|
| <b>Physical hazards</b>      | Flammable liquids                                      | Category 2                              |
| <b>Health hazards</b>        | Serious eye damage/eye irritation                      | Category 2                              |
|                              | Reproductive toxicity                                  | Category 2                              |
|                              | Specific target organ toxicity, single exposure        | Category 3 respiratory tract irritation |
|                              | Specific target organ toxicity, single exposure        | Category 3 narcotic effects             |
|                              | Specific target organ toxicity, repeated exposure      | Category 2 (central nervous system)     |
| <b>Environmental hazards</b> | Hazardous to the aquatic environment, acute hazard     | Category 2                              |
|                              | Hazardous to the aquatic environment, long-term hazard | Category 2                              |
| <b>OSHA defined hazards</b>  | Not classified.  |   |

### Label elements



|                                |   |
|--------------------------------|---|
| <b>Signal word</b>             | Danger  |
| <b>Hazard statement</b>        | Highly flammable liquid and vapor. Causes serious eye irritation. May cause respiratory irritation. May cause drowsiness or dizziness. Suspected of damaging fertility or the unborn child. May cause damage to organs (central nervous system) through prolonged or repeated exposure. Toxic to aquatic life with long lasting effects.  |
| <b>Precautionary statement</b> |   |
| <b>Prevention</b>              | Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe mist/vapors. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Avoid release to the environment. Wear protective gloves/protective clothing/eye protection/face protection. |

|  |  |
|--|--|
| <b>Response</b>                                  | If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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 eye irritation persists: Get medical advice/attention. In case of fire: Use carbon dioxide, dry powder; water fog (large fires) to extinguish. Collect spillage. |
| <b>Storage</b>                                   | Keep cool. Store in a well-ventilated place. Keep container tightly closed. Store locked up.   |
| <b>Disposal</b>                                  | Dispose of contents/container in accordance with local/regional/national/international regulations.  |
| <b>Hazard(s) not otherwise classified (HNOC)</b> | None known.  |
| <b>Supplemental information</b>                  | Repeated exposure may cause skin dryness or cracking.  |

### 3. Composition/information on ingredients

#### Mixtures

| Chemical name      | CAS number | %       |
|--------------------|------------|---------|
| tert-Butyl acetate | 540-88-5   | 30 - 60 |
| Methyl acetate     | 79-20-9    | 15 - 40 |
| Toluene            | 108-88-3   | 5 - 10  |
| Phenolic resin     | 25085-50-1 | 1 - 5   |
| Zinc oxide         | 1314-13-2  | < 0.5   |

**Composition comments** All concentrations are in percent by weight. Components not listed are either non-hazardous or are below reportable limits. Any concentration shown as a range is to protect confidentiality or is due to batch variation.

### 4. First-aid measures

|   |  |
|---|--|
| <b>Inhalation</b>   | Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a poison center or doctor/physician if you feel unwell.  |
| <b>Skin contact</b>   | Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical attention if irritation develops and persists.   |
| <b>Eye contact</b>  | Immediately flush eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>  | Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Get medical attention if symptoms occur.  |
| <b>Most important symptoms/effects, acute and delayed</b>                     | May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Prolonged exposure may cause chronic effects.  |
| <b>Indication of immediate medical attention and special treatment needed</b> | Provide general supportive measures and treat symptomatically. Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital. Keep victim under observation. Symptoms may be delayed.  |
| <b>General information</b>  | Take off all contaminated clothing immediately. 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. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse. |

### 5. Fire-fighting measures

|  |   |
|--|---|
| <b>Suitable extinguishing media</b>                                  | Water fog. Dry sand. Dry chemical powder. Carbon dioxide (CO <sub>2</sub> ).  |
| <b>Unsuitable extinguishing media</b>                                | Do not use water jet as an extinguisher, as this will spread the fire.  |
| <b>Specific hazards arising from the chemical</b>                    | Vapors may form explosive mixtures with air. Vapors may travel considerable distance to a source of ignition and flash back. During fire, gases hazardous to health may be formed such as: Carbon oxides (CO <sub>x</sub> ). Hydrogen Chloride (HCl). Hydrocarbons. |
| <b>Special protective equipment and precautions for firefighters</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.   |
| <b>Fire fighting equipment/instructions</b>                          | In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk. Water runoff can cause environmental damage.   |
| <b>Specific methods</b>  | Use standard firefighting procedures and consider the hazards of other involved materials.  |
| <b>General fire hazards</b>  | Highly flammable liquid and vapor.  |

## 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). 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. Ventilate closed spaces before entering them. 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

Eliminate all ignition sources (no smoking, flares, sparks, or flames in immediate area). Keep combustibles (wood, paper, oil, etc.) away from spilled material. Take precautionary measures against static discharge. Use only non-sparking tools. This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Use a non-combustible material like vermiculite, sand or earth to soak up the product and place into a container for later disposal. Following product recovery, flush area with water.

Small Spills: Absorb with earth, sand or other non-combustible material and transfer to containers for later disposal. Clean surface thoroughly to remove residual contamination.

Never return spills to original containers for re-use. For waste disposal, see section 13 of the SDS. The product is insoluble in water.

### Environmental precautions

Avoid release to the environment. Inform appropriate managerial or supervisory personnel of all environmental releases. Prevent further leakage or spillage if safe to do so. Avoid discharge into drains, water courses or onto the ground.

## 7. Handling and storage

### Precautions for safe handling

Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. When using do not smoke. Explosion-proof general and local exhaust ventilation. Take precautionary measures against static discharges. All equipment used when handling the product must be grounded. Use non-sparking tools and explosion-proof equipment. Do not breathe mist/vapors. Avoid contact with eyes. Avoid prolonged exposure. Pregnant or breastfeeding women must not handle this product. Should be handled in closed systems, if possible. Wear appropriate personal protective equipment. Avoid release to the environment. Observe good industrial hygiene practices.

### Conditions for safe storage, including any incompatibilities

Store locked up. Keep away from heat, sparks and open flame. Prevent electrostatic charge build-up by using common bonding and grounding techniques. Store in a cool, dry place out of direct sunlight. Store in tightly closed container. Store in a well-ventilated place. Keep in an area equipped with sprinklers. Store away from incompatible materials (see Section 10 of the SDS).

## 8. Exposure controls/personal protection

### Occupational exposure limits

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

| Components                        | Type | Value                 | Form                 |
|-----------------------------------|------|-----------------------|----------------------|
| Methyl acetate (CAS 79-20-9)      | PEL  | 610 mg/m <sup>3</sup> |                      |
|                                   |      | 200 ppm               |                      |
| tert-Butyl acetate (CAS 540-88-5) | PEL  | 950 mg/m <sup>3</sup> |                      |
|                                   |      | 200 ppm               |                      |
| Zinc oxide (CAS 1314-13-2)        | PEL  | 5 mg/m <sup>3</sup>   | Fume.                |
|                                   |      | 5 mg/m <sup>3</sup>   | Respirable fraction. |
|                                   |      | 15 mg/m <sup>3</sup>  | Total dust.          |

#### US. OSHA Table Z-2 Permissible Exposure Limits (PEL) (29 CFR 1910.1000)

| Components             | Type    | Value   |
|------------------------|---------|---------|
| Toluene (CAS 108-88-3) | Ceiling | 300 ppm |
|                        | TWA     | 200 ppm |

**US. ACGIH Threshold Limit Values (TLV)**

| Components                        | Type | Value    | Form                 |
|-----------------------------------|------|----------|----------------------|
| Methyl acetate (CAS 79-20-9)      | STEL | 250 ppm  |                      |
|                                   | TWA  | 200 ppm  |                      |
| tert-Butyl acetate (CAS 540-88-5) | STEL | 150 ppm  |                      |
|                                   | TWA  | 50 ppm   |                      |
| Toluene (CAS 108-88-3)            | TWA  | 20 ppm   |                      |
| Zinc oxide (CAS 1314-13-2)        | STEL | 10 mg/m3 | Respirable fraction. |
|                                   | TWA  | 2 mg/m3  | Respirable fraction. |

**NIOSH. Immediately Dangerous to Life or Health (IDLH) Values, as amended**

| Components                        | Type | Value     |
|-----------------------------------|------|-----------|
| Methyl acetate (CAS 79-20-9)      | IDLH | 3.1 %     |
|                                   |      | 3100 ppm  |
| tert-Butyl acetate (CAS 540-88-5) | IDLH | 1.5 %     |
|                                   |      | 1500 ppm  |
| Toluene (CAS 108-88-3)            | IDLH | 1.1 %     |
|                                   |      | 500 ppm   |
| Zinc oxide (CAS 1314-13-2)        | IDLH | 500 mg/m3 |

**US. NIOSH: Pocket Guide to Chemical Hazards**

| Components                        | Type    | Value     | Form  |
|-----------------------------------|---------|-----------|-------|
| Methyl acetate (CAS 79-20-9)      | STEL    | 760 mg/m3 |       |
|                                   |         | 250 ppm   |       |
|                                   |         | 610 mg/m3 |       |
| tert-Butyl acetate (CAS 540-88-5) | TWA     | 200 ppm   |       |
|                                   |         | 950 mg/m3 |       |
|                                   |         | 200 ppm   |       |
| Toluene (CAS 108-88-3)            | STEL    | 560 mg/m3 |       |
|                                   |         | 150 ppm   |       |
|                                   | TWA     | 375 mg/m3 |       |
|                                   |         | 100 ppm   |       |
| Zinc oxide (CAS 1314-13-2)        | Ceiling | 15 mg/m3  | Dust. |
|                                   | STEL    | 10 mg/m3  | Fume. |
|                                   | TWA     | 5 mg/m3   | Fume. |
|                                   |         | 5 mg/m3   | Dust. |

**Biological limit values****ACGIH Biological Exposure Indices (BEI)**

| Components             | Value     | Determinant               | Specimen            | Sampling Time |
|------------------------|-----------|---------------------------|---------------------|---------------|
| Toluene (CAS 108-88-3) | 0.3 mg/g  | o-Cresol, with hydrolysis | Creatinine in urine | *             |
|                        | 0.03 mg/l | Toluene                   | Urine               | *             |
|                        | 0.02 mg/l | Toluene                   | Blood               | *             |

\* - For sampling details, please see the source document.

**Exposure guidelines****US - California OELs: Skin designation**

Toluene (CAS 108-88-3)

Can be absorbed through the skin.

## US - Minnesota Haz Subs: Skin designation applies

Toluene (CAS 108-88-3)

Skin designation applies.

|  |   |
|--|---|
| <b>Appropriate engineering controls</b>                                      | Explosion-proof general and local exhaust ventilation. 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. Provide eyewash station and safety shower.   |
| <b>Individual protection measures, such as personal protective equipment</b> |   |
| <b>Eye/face protection</b>   | Wear chemical goggles.  |
| <b>Skin protection</b>   |   |
| <b>Hand protection</b>   | Wear appropriate chemical resistant gloves. Examples of preferred glove barrier materials include: Fluoroelastomer (FKM). Polyethylene/Ethylene Vinyl Alcohol (PE/EVAL). Polyvinyl alcohol (PVA). Suitable gloves can be recommended by the glove supplier.   |
| <b>Skin protection</b>   |   |
| <b>Other</b>   | Wear suitable protective clothing. Use of an impervious apron is recommended.   |
| <b>Respiratory protection</b>  | 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. Respirator type: Chemical respirator with organic vapor cartridge and full facepiece. Appropriate respirator selection should be made by a qualified professional. In the United States of America, if respirators are used, a program should be instituted to assure compliance with OSHA 29 CFR 1910.134. |
| <b>Thermal hazards</b>   | Wear appropriate thermal protective clothing, when necessary.   |
| <b>General hygiene considerations</b>  | Observe any medical surveillance requirements. When using do not smoke. 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.   |

## 9. Physical and chemical properties

### Appearance

**Physical state**                   Liquid.

**Form**                               Liquid.

**Color**                             Yellow.

**Odor**                                 Characteristic.

**Odor threshold**                   Not available.

**pH**                                    Not determined; product is not soluble in water.

**Melting point/freezing point**   Not determined.

**Initial boiling point and boiling range**   134.6 °F (57 °C)

**Flash point**                         14 °F (-10 °C)

**Evaporation rate**                   Not available.

**Flammability (solid, gas)**         Not applicable.

### Upper/lower flammability or explosive limits

**Explosive limit - lower (%)**   3.1 % v/v

**Explosive limit - upper (%)**   16 % v/v

**Vapor pressure**                    220 hPa (68 °F (20 °C))  
  165 mm Hg (68 °F (20 °C))

**Vapor density**                     Not determined.

**Relative density**                  > 0.91 - < 0.95

### 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**                         > 2500 - < 3500 cP R.V.F. Brookfield, #3 Spindle @ 10 RPM

|                             |  |
|-----------------------------|--|
| <b>Other information</b>    | Ignition temperature: 455 °C (851 °F)<br>Solids: 22% |
| <b>Density</b>              | > 7.6 - < 8 lbs/gal                                  |
| <b>Explosive properties</b> | Not explosive.                                       |
| <b>Kinematic viscosity</b>  | Not determined.                                      |
| <b>Oxidizing properties</b> | Not oxidizing.                                       |
| <b>VOC</b>                  | < 250 g/l (less water and exempt solvents)           |

## 10. Stability and reactivity

|   |  |
|---|--|
| <b>Reactivity</b>                         | The product is stable and non-reactive under normal conditions of use, storage and transport.  |
| <b>Chemical stability</b>                 | Material is stable under normal conditions.  |
| <b>Possibility of hazardous reactions</b> | No dangerous reaction known under conditions of normal use.  |
| <b>Conditions to avoid</b>                | Avoid heat, sparks, open flames and other ignition sources. Avoid temperatures exceeding the flash point. Contact with incompatible materials. |
| <b>Incompatible materials</b>             | Strong oxidizing agents. Nitrates.   |
| <b>Hazardous decomposition products</b>   | No hazardous decomposition products are known. In the event of fire: See Section 5.  |

## 11. Toxicological information

### Information on likely routes of exposure

|                     |  |
|---------------------|--|
| <b>Inhalation</b>   | May cause drowsiness or dizziness. Headache. Nausea, vomiting. May cause irritation to the respiratory system. Prolonged inhalation may be harmful.  |
| <b>Skin contact</b> | Prolonged or repeated skin contact may cause drying, cracking, or irritation. The product contains a sensitizing substance which may provoke an allergic reaction among sensitive individuals. |
| <b>Eye contact</b>  | Causes serious eye irritation.   |
| <b>Ingestion</b>    | Expected to be a low ingestion hazard.   |

**Symptoms related to the physical, chemical and toxicological characteristics** May cause drowsiness or dizziness. Narcosis. Headache. Nausea, vomiting. Behavioral changes. Decrease in motor functions. Severe eye irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. May cause respiratory irritation. Prolonged exposure may cause chronic effects.

### Information on toxicological effects

**Acute toxicity** Not expected to be acutely toxic.

| Components                 | Species | Test Results        |
|----------------------------|---------|---------------------|
| Toluene (CAS 108-88-3)     |         |                     |
| <b>Acute</b>               |         |                     |
| <b>Dermal</b>              |         |                     |
| LD50                       | Rabbit  | 12200 mg/kg         |
| <b>Inhalation</b>          |         |                     |
| <i>Vapor</i>               |         |                     |
| LC50                       | Rat     | 28.1 mg/l, 4 Hours  |
| Zinc oxide (CAS 1314-13-2) |         |                     |
| <b>Acute</b>               |         |                     |
| <b>Inhalation</b>          |         |                     |
| LC50                       | Mouse   | > 5.7 mg/l, 4 Hours |
| <b>Oral</b>                |         |                     |
| LD50                       | Rat     | > 5000 mg/kg        |

**Skin corrosion/irritation** Prolonged or repeated skin contact may cause drying, cracking, or irritation.

**Serious eye damage/eye irritation** Causes serious eye irritation.

### Respiratory or skin sensitization

|                                  |  |
|----------------------------------|--|
| <b>Respiratory sensitization</b> | Not a respiratory sensitizer.  |
| <b>Skin sensitization</b>        | The product contains a small amount of sensitizing substance which may provoke an allergic reaction among sensitive individuals. |

**Germ cell mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

**Carcinogenicity** Not classifiable as to carcinogenicity to humans.

**IARC Monographs. Overall Evaluation of Carcinogenicity**

Toluene (CAS 108-88-3)

3 Not classifiable as to carcinogenicity to humans.

**NTP Report on Carcinogens**

Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**

Not listed.

**Reproductive toxicity** Possible reproductive hazard. Suspected of damaging fertility or the unborn child.

**Specific target organ toxicity - single exposure** May cause respiratory irritation. May cause drowsiness or dizziness.

**Specific target organ toxicity - repeated exposure** May cause damage to organs (central nervous system) through prolonged or repeated exposure.

**Aspiration hazard** Based on available data, the classification criteria are not met.

**Chronic effects** Prolonged inhalation may be harmful. May cause damage to organs through prolonged or repeated exposure.

## 12. Ecological information

**Ecotoxicity** Toxic to aquatic life with long lasting effects.

| Components             |      | Species              | Test Results        |
|------------------------|------|----------------------|---------------------|
| Toluene (CAS 108-88-3) |      |                      |                     |
| <b>Aquatic</b>         |      |                      |                     |
| <i>Acute</i>           |      |                      |                     |
| Crustacea              | EC50 | Daphnia magna        | 11.5 mg/l, 48 hours |
| Fish                   | LC50 | Oncorhynchus kisutch | 5.5 mg/l, 96 hours  |
| <i>Chronic</i>         |      |                      |                     |
| Crustacea              | NOEC | Ceriodaphnia dubia   | 0.74 mg/l, 7 days   |
| Fish                   | NOEC | Oncorhynchus kisutch | 1.4 mg/l, 40 days   |

**Persistence and degradability** No data is available on the degradability of this product.

**Bioaccumulative potential** No data available for this product.

**Partition coefficient n-octanol / water (log Kow)**

|                                   |      |
|-----------------------------------|------|
| Methyl acetate (CAS 79-20-9)      | 0.18 |
| Toluene (CAS 108-88-3)            | 2.73 |
| tert-Butyl acetate (CAS 540-88-5) | 1.76 |

**Mobility in soil** No data available.

**Other adverse effects** The product contains volatile organic compounds which have a photochemical ozone creation potential. This product contains one or more substances identified as hazardous air pollutants (HAPs) per the US Federal Clean Air Act (see section 15).

## 13. Disposal considerations

**Disposal instructions** Dispose of this material and its container to hazardous or special waste collection point. Incinerate the material under controlled conditions in an approved incinerator. Do not incinerate sealed containers. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international 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 of 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.

**Contaminated packaging** Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

## 14. Transport information

### DOT

|                              |   |
|------------------------------|---|
| UN number                    | UN1133  |
| UN proper shipping name      | Adhesives   |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary hazard            | -   |
| Label(s)                     | 3   |
| Packing group                | II  |
| Environmental hazards        |   |
| Marine pollutant             | Yes   |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |
| Special provisions           | 149, B52, IB2, T4, TP1, TP8   |
| Packaging exceptions         | 150   |
| Packaging non bulk           | 173   |
| Packaging bulk               | 242   |

### IATA

|                              |   |
|------------------------------|---|
| UN number                    | UN1133  |
| UN proper shipping name      | Adhesives   |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary hazard            | -   |
| Packing group                | II  |
| Environmental hazards        | Yes   |
| ERG Code                     | 3L  |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

### IMDG

|                              |   |
|------------------------------|---|
| UN number                    | UN1133  |
| UN proper shipping name      | ADHESIVES   |
| Transport hazard class(es)   |   |
| Class                        | 3   |
| Subsidiary hazard            | -   |
| Packing group                | II  |
| Environmental hazards        |   |
| Marine pollutant             | Yes   |
| EmS                          | F-E, S-D  |
| Special precautions for user | Read safety instructions, SDS and emergency procedures before handling. |

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

General information IMDG Regulated Marine Pollutant. DOT Regulated Marine Pollutant.

## 15. Regulatory information

US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

### TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

### CERCLA Hazardous Substance List (40 CFR 302.4)

|                                   |        |
|-----------------------------------|--------|
| Methyl acetate (CAS 79-20-9)      | Listed |
| tert-Butyl acetate (CAS 540-88-5) | Listed |
| Toluene (CAS 108-88-3)            | Listed |
| Zinc oxide (CAS 1314-13-2)        | Listed |

### SARA 304 Emergency release notification

Not regulated.

### OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not listed.

### Toxic Substances Control Act (TSCA)

All components of the mixture on the TSCA 8(b) inventory are designated "active".

## Superfund Amendments and Reauthorization Act of 1986 (SARA)

### SARA 302 Extremely hazardous substance

Not listed.

### SARA 311/312 Hazardous chemical

**Classified hazard categories** Flammable (gases, aerosols, liquids, or solids)  
Serious eye damage or eye irritation  
Reproductive toxicity  
Specific target organ toxicity (single or repeated exposure)

### SARA 313 (TRI reporting)

| Chemical name | CAS number | % by wt. |
|---------------|------------|----------|
| Toluene       | 108-88-3   | 5 - 10   |

## Other federal regulations

### Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Toluene (CAS 108-88-3)

### Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

### Safe Drinking Water Act (SDWA)

Contains component(s) regulated under the Safe Drinking Water Act.

### Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number

Toluene (CAS 108-88-3) 6594

### Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))

Toluene (CAS 108-88-3) 35 %WW

### DEA Exempt Chemical Mixtures Code Number

Toluene (CAS 108-88-3) 594

### FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Methyl acetate (CAS 79-20-9) Low priority

## US state regulations

### US. Massachusetts RTK - Substance List

Methyl acetate (CAS 79-20-9)  
tert-Butyl acetate (CAS 540-88-5)  
Toluene (CAS 108-88-3)  
Zinc oxide (CAS 1314-13-2)

### US. New Jersey Worker and Community Right-to-Know Act

Methyl acetate (CAS 79-20-9)  
tert-Butyl acetate (CAS 540-88-5)  
Toluene (CAS 108-88-3)  
Zinc oxide (CAS 1314-13-2)

### US. Pennsylvania Worker and Community Right-to-Know Law

Methyl acetate (CAS 79-20-9)  
tert-Butyl acetate (CAS 540-88-5)  
Toluene (CAS 108-88-3)  
Zinc oxide (CAS 1314-13-2)

### US. Rhode Island RTK

Methyl acetate (CAS 79-20-9)  
tert-Butyl acetate (CAS 540-88-5)  
Toluene (CAS 108-88-3)  
Zinc oxide (CAS 1314-13-2)

### California Proposition 65



**WARNING:** This product can expose you to Toluene, which is known to the State of California to cause birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

### California Proposition 65 - CRT: Listed date/Developmental toxin

Toluene (CAS 108-88-3) Listed: January 1, 1991

## 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)        | No                     |
| 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) | No                     |
| 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** 14-October-2024

**Revision date** -

**Version #** 01

**HMIS® ratings** Health: 2\*  
Flammability: 3  
Physical hazard: 0

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