

# SAFETY DATA SHEET

RG+ Concrete Adhesive

300ml / 026-2451 (70971142 (141-791)); 828ml / 026-2460 (70975912 (141-792))

## Section 1. Identification

**Product identifier** : RG+ Concrete Adhesive  
**Product code** : Not available.  
**Other means of identification** : Not available.  
**Product type** : Liquid.

### Relevant identified uses of the substance or mixture and uses advised against

**Product use** : Adhesive.  
**Area of application** : Industrial applications.

**Supplier/Manufacturer** : Techniseal  
300, avenue Liberté  
Candiac, QC, Canada, J5R 6X1  
Tel: (514) 523-2110  
Toll free: 1-800-465-7325  
Fax: (450) 633-3035

**e-mail address of person responsible for this SDS** : service@techniseal.com

**Emergency telephone number (with hours of operation)** : CANUTEC (613) 996-6666

## Section 2. Hazard identification

**Classification of the substance or mixture** : H225 FLAMMABLE LIQUIDS - Category 2  
H315 SKIN IRRITATION - Category 2  
H319 EYE IRRITATION - Category 2A  
H351 CARCINOGENICITY - Category 2  
H361 TOXIC TO REPRODUCTION (Fertility) - Category 2  
H361 TOXIC TO REPRODUCTION (Unborn child) - Category 2  
H335 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3  
H336 SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3

### GHS label elements

**Hazard pictograms** :



**Signal word** : Danger

**Hazard statements** : H225 - Highly flammable liquid and vapor.  
H319 - Causes serious eye irritation.  
H315 - Causes skin irritation.  
H361 - Suspected of damaging fertility or the unborn child.  
H351 - Suspected of causing cancer.  
H335 - May cause respiratory irritation.  
H336 - May cause drowsiness or dizziness.

## Section 2. Hazard identification

### Precautionary statements

#### Prevention

- : P201 - Obtain special instructions before use.
- P202 - Do not handle until all safety precautions have been read and understood.
- P280 - Wear protective gloves. Wear protective clothing. Wear eye or face protection.
- P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P271 - Use only outdoors or in a well-ventilated area.
- P261 - Avoid breathing vapor.
- P264 - Wash hands thoroughly after handling.

#### Response

- : P308 + P313 - IF exposed or concerned: Get medical attention.
- P304 + P340 + P312 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.
- P303 + P361 + P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P302 + P352 + P362+P364 - IF ON SKIN: Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse.
- P332 + P313 - If skin irritation occurs: Get medical attention.
- P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337 + P313 - If eye irritation persists: Get medical attention.

#### Storage

- : P405 - Store locked up.

#### Disposal

- : P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.

#### Supplemental label elements

- : Percentage of the mixture consisting of ingredient(s) of unknown acute oral toxicity: 50%
- Percentage of the mixture consisting of ingredient(s) of unknown acute dermal toxicity: 53%
- Percentage of the mixture consisting of ingredient(s) of unknown acute inhalation toxicity: 50%

## Section 3. Composition/information on ingredients

#### Substance/mixture

- : Mixture

#### Other means of identification

- : Not available.

| Ingredient name    | % (w/w)     | CAS number |
|--------------------|-------------|------------|
| Low Voc premix     | 30 - 60 (1) | -          |
| methyl acetate     | 10 - 30 (1) | 79-20-9    |
| n-hexane           | 1 - 5 (1)   | 110-54-3   |
| vinyl acetate      | 0.1 - 1 (1) | 108-05-4   |
| vinyl neodecanoate | 0.1 - 1 (1) | 51000-52-3 |

(1) The actual concentration or actual concentration range is withheld as a trade secret.

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

**Occupational exposure limits, if available, are listed in Section 8.**

## Section 4. First-aid measures

### Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If necessary, call a poison center or physician. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.
- Skin contact** : Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention. If necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

### Most important symptoms/effects, acute and delayed

#### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression.

#### Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

## Section 4. First-aid measures

- Skin contact** : Adverse symptoms may include the following:  
irritation  
redness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

### Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

## Section 5. Fire-fighting measures

### Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO<sub>2</sub>, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

**Specific hazards arising from the chemical** : Highly flammable liquid and vapor. Runoff to sewer may create fire or explosion hazard. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:  
carbon dioxide  
carbon monoxide

**Special protective actions for fire-fighters** : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

**Special protective equipment for fire-fighters** : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## Section 6. Accidental release measures

### Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapor or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

## Section 6. Accidental release measures

**For emergency responders** : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

**Environmental precautions** : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### Methods and materials for containment and cleaning up

**Small spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill** : Stop leak if without risk. Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see Section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilled product. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

## Section 7. Handling and storage

### Precautions for safe handling

**Protective measures** : Put on appropriate personal protective equipment (see Section 8). Avoid exposure - obtain special instructions before use. Avoid exposure during pregnancy. Do not handle until all safety precautions have been read and understood. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapor or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use only non-sparking tools. Take precautionary measures against electrostatic discharges. Empty containers retain product residue and can be hazardous. Do not reuse container.

**Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

**Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

### [Control parameters](#)

#### [Occupational exposure limits](#)

| Ingredient name | Exposure limits  |
|-----------------|--|
| methyl acetate  | <p><b>CA Alberta Provincial (Canada, 6/2018).</b><br/>           8 hrs OEL: 606 mg/m<sup>3</sup> 8 hours.<br/>           15 min OEL: 757 mg/m<sup>3</sup> 15 minutes.<br/>           15 min OEL: 250 ppm 15 minutes.<br/>           8 hrs OEL: 200 ppm 8 hours.</p> <p><b>CA British Columbia Provincial (Canada, 7/2018).</b><br/>           TWA: 200 ppm 8 hours.<br/>           STEL: 250 ppm 15 minutes.</p> <p><b>CA Ontario Provincial (Canada, 1/2018).</b><br/>           TWA: 200 ppm 8 hours.<br/>           STEL: 250 ppm 15 minutes.</p> <p><b>CA Quebec Provincial (Canada, 1/2014).</b><br/>           TWAEV: 200 ppm 8 hours.<br/>           TWAEV: 606 mg/m<sup>3</sup> 8 hours.<br/>           STEV: 250 ppm 15 minutes.<br/>           STEV: 757 mg/m<sup>3</sup> 15 minutes.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b><br/>           STEL: 250 ppm 15 minutes.<br/>           TWA: 200 ppm 8 hours.</p> |
| n-hexane        | <p><b>CA Alberta Provincial (Canada, 6/2018).</b><br/> <b>Absorbed through skin.</b><br/>           8 hrs OEL: 50 ppm 8 hours.<br/>           8 hrs OEL: 176 mg/m<sup>3</sup> 8 hours.</p> <p><b>CA British Columbia Provincial (Canada, 7/2018).</b> <b>Absorbed through skin.</b><br/>           TWA: 20 ppm 8 hours.</p> <p><b>CA Ontario Provincial (Canada, 1/2018).</b><br/> <b>Absorbed through skin.</b><br/>           TWA: 50 ppm 8 hours.</p> <p><b>CA Quebec Provincial (Canada, 1/2014).</b><br/> <b>Absorbed through skin.</b><br/>           TWAEV: 50 ppm 8 hours.<br/>           TWAEV: 176 mg/m<sup>3</sup> 8 hours.</p> <p><b>CA Saskatchewan Provincial (Canada, 7/2013).</b> <b>Absorbed through skin.</b><br/>           STEL: 62.5 ppm 15 minutes.<br/>           TWA: 50 ppm 8 hours.</p>  |
| vinyl acetate   | <p><b>CA Alberta Provincial (Canada, 6/2018).</b><br/>           15 min OEL: 53 mg/m<sup>3</sup> 15 minutes.<br/>           15 min OEL: 15 ppm 15 minutes.<br/>           8 hrs OEL: 35 mg/m<sup>3</sup> 8 hours.<br/>           8 hrs OEL: 10 ppm 8 hours.</p> <p><b>CA British Columbia Provincial (Canada, 7/2018).</b><br/>           TWA: 10 ppm 8 hours.<br/>           STEL: 15 ppm 15 minutes.</p> <p><b>CA Ontario Provincial (Canada, 1/2018).</b><br/>           TWA: 10 ppm 8 hours.<br/>           STEL: 15 ppm 15 minutes.</p> <p><b>CA Quebec Provincial (Canada, 1/2014).</b></p>  |

## Section 8. Exposure controls/personal protection

TWAEV: 10 ppm 8 hours.  
 TWAEV: 35 mg/m<sup>3</sup> 8 hours.  
 STEV: 15 ppm 15 minutes.  
 STEV: 53 mg/m<sup>3</sup> 15 minutes.  
**CA Saskatchewan Provincial (Canada, 7/2013).**  
 STEL: 15 ppm 15 minutes.  
 TWA: 10 ppm 8 hours.

- Appropriate engineering controls** : Use only with adequate ventilation. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.
- Environmental exposure controls** : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
- Individual protection measures**
- Hygiene measures** : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
- Eye/face protection** : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: chemical splash goggles.
- Skin protection**
- Hand protection** : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.
- Body protection** : Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. When there is a risk of ignition from static electricity, wear anti-static protective clothing. For the greatest protection from static discharges, clothing should include anti-static overalls, boots and gloves.
- Other skin protection** : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
- Respiratory protection** : Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.

## Section 9. Physical and chemical properties

### Appearance

|   |   |
|---|---|
| <b>Physical state</b>                               | : Liquid. [Paste.]  |
| <b>Color</b>  | : Beige.  |
| <b>Odor</b>   | : Solvent. [Strong]   |
| <b>Odor threshold</b>                               | : Not available.  |
| <b>pH</b>   | : Not available.  |
| <b>Melting point</b>                                | : Not available.  |
| <b>Boiling point</b>                                | : 54.44°C (130°F)   |
| <b>Flash point</b>                                  | : Closed cup: -13°C (8.6°F) [Setaflash.]                          |
| <b>Evaporation rate</b>                             | : >1 (butyl acetate = 1)  |
| <b>Flammability (solid, gas)</b>                    | : Not applicable.   |
| <b>Lower and upper explosive (flammable) limits</b> | : Not available.  |
| <b>Vapor pressure</b>                               | : Not available.  |
| <b>Vapor density</b>                                | : Not available.  |
| <b>Relative density</b>                             | : 1.18746   |
| <b>Solubility</b>                                   | : Insoluble in the following materials: cold water and hot water. |
| <b>Partition coefficient: n-octanol/water</b>       | : Not available.  |
| <b>Auto-ignition temperature</b>                    | : Not available.  |
| <b>Decomposition temperature</b>                    | : Not available.  |
| <b>Viscosity</b>                                    | : Not available.  |
| <b>Flow time (ISO 2431)</b>                         | : Not available.  |

## Section 10. Stability and reactivity

|   |   |
|---|---|
| <b>Reactivity</b>                         | : No specific test data related to reactivity available for this product or its ingredients.  |
| <b>Chemical stability</b>                 | : The product is stable.  |
| <b>Possibility of hazardous reactions</b> | : Under normal conditions of storage and use, hazardous reactions will not occur.<br>Under normal conditions of storage and use, hazardous polymerization will not occur. |
| <b>Conditions to avoid</b>                | : Avoid all possible sources of ignition (spark or flame). Do not pressurize, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition. |
| <b>Incompatible materials</b>             | : Reactive or incompatible with the following materials:<br>oxidizing materials   |
| <b>Hazardous decomposition products</b>   | : Under normal conditions of storage and use, hazardous decomposition products should not be produced.  |



## Section 11. Toxicological information

### Information on toxicological effects

#### Acute toxicity

| Product/ingredient name | Result                | Species | Dose                    | Exposure |
|-------------------------|-----------------------|---------|-------------------------|----------|
| methyl acetate          | LC50 Inhalation Vapor | Rat     | 48.48 mg/l              | 4 hours  |
|                         | LD50 Dermal           | Rabbit  | >5 g/kg                 | -        |
|                         | LD50 Oral             | Rat     | >5 g/kg                 | -        |
| n-hexane                | LC50 Inhalation Vapor | Rat     | 169.2 mg/l              | 4 hours  |
|                         | LC50 Inhalation Vapor | Rat     | 48000 ppm               | 4 hours  |
|                         | LD50 Oral             | Rat     | 15840 mg/kg             | -        |
| vinyl acetate           | LC50 Inhalation Vapor | Rat     | 11400 mg/m <sup>3</sup> | 4 hours  |
|                         | LC50 Inhalation Vapor | Rat     | 3680 ppm                | 4 hours  |
|                         | LD50 Dermal           | Rabbit  | 2335 mg/kg              | -        |
|                         | LD50 Oral             | Rat     | 2900 mg/kg              | -        |

**Conclusion/Summary** : Not available.

#### Irritation/Corrosion

| Product/ingredient name | Result                   | Species | Score | Exposure                | Observation |
|-------------------------|--------------------------|---------|-------|-------------------------|-------------|
| methyl acetate          | Eyes - Moderate irritant | Rabbit  | -     | 24 hours 100 milligrams | -           |
|                         | Skin - Mild irritant     | Rabbit  | -     | 24 hours 500 milligrams | -           |
|                         | Skin - Moderate irritant | Rabbit  | -     | 24 hours 20 milligrams  | -           |
| n-hexane                | Eyes - Mild irritant     | Rabbit  | -     | 10 milligrams           | -           |

#### Conclusion/Summary

**Skin** : Causes skin irritation. Prolonged or repeated contact can defat the skin and lead to irritation, cracking and/or dermatitis.

**Eyes** : Causes eye irritation.

**Respiratory** : May cause respiratory irritation.

#### Sensitization

##### Conclusion/Summary

**Skin** : Not available.

**Respiratory** : Not available.

#### Mutagenicity

**Conclusion/Summary** : Not available.

#### Carcinogenicity

**Conclusion/Summary** : Not available.

#### Reproductive toxicity

**Conclusion/Summary** : Not available.

#### Teratogenicity

**Conclusion/Summary** : Not available.

#### Specific target organ toxicity (single exposure)

## Section 11. Toxicological information

| Name           | Category                 | Route of exposure                  | Target organs                                    |
|----------------|--------------------------|------------------------------------|--|
| Low Voc premix | Category 3<br>Category 3 | Not applicable.<br>Not applicable. | Narcotic effects<br>Respiratory tract irritation |
| methyl acetate | Category 3<br>Category 3 | Not applicable.<br>Not applicable. | Narcotic effects<br>Respiratory tract irritation |
| n-hexane       | Category 3<br>Category 3 | Not applicable.<br>Not applicable. | Narcotic effects<br>Respiratory tract irritation |
| vinyl acetate  | Category 3               | Not applicable.                    | Respiratory tract irritation                     |

### Specific target organ toxicity (repeated exposure)

| Name     | Category   | Route of exposure | Target organs  |
|----------|------------|-------------------|----------------|
| n-hexane | Category 2 | Inhalation        | nervous system |

### Aspiration hazard

| Name     | Result                         |
|----------|--------------------------------|
| n-hexane | ASPIRATION HAZARD - Category 1 |

**Information on the likely routes of exposure** : Routes of entry anticipated: Oral, Dermal, Inhalation.

### Potential acute health effects

- Eye contact** : Causes serious eye irritation.
- Inhalation** : Can cause central nervous system (CNS) depression. May cause drowsiness or dizziness. May cause respiratory irritation.
- Skin contact** : Causes skin irritation.
- Ingestion** : Can cause central nervous system (CNS) depression.

### Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:  
pain or irritation  
watering  
redness
- Inhalation** : Adverse symptoms may include the following:  
respiratory tract irritation  
coughing  
nausea or vomiting  
headache  
drowsiness/fatigue  
dizziness/vertigo  
unconsciousness  
reduced fetal weight  
increase in fetal deaths  
skeletal malformations

## Section 11. Toxicological information

- Skin contact** : Adverse symptoms may include the following:  
 irritation  
 redness  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations
- Ingestion** : Adverse symptoms may include the following:  
 reduced fetal weight  
 increase in fetal deaths  
 skeletal malformations

### Delayed and immediate effects and also chronic effects from short and long term exposure

#### Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

#### Potential chronic health effects

- Conclusion/Summary** : Not available.
- General** : No known significant effects or critical hazards.
- Carcinogenicity** : Suspected of causing cancer. Risk of cancer depends on duration and level of exposure.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : Suspected of damaging the unborn child.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : Suspected of damaging fertility.

### Numerical measures of toxicity

#### Acute toxicity estimates

| Product/ingredient name | Oral (mg/kg) | Dermal (mg/kg) | Inhalation (gases) (ppm) | Inhalation (vapors) (mg/l) | Inhalation (dusts and mists) (mg/l) |
|-------------------------|--------------|----------------|--------------------------|----------------------------|-------------------------------------|
| methyl acetate          | N/A          | N/A            | N/A                      | 48.48                      | N/A                                 |
| n-hexane                | 15840        | N/A            | 48000                    | 169.2                      | N/A                                 |
| vinyl acetate           | 2900         | 2335           | N/A                      | 11.4                       | N/A                                 |

## Section 12. Ecological information

### Toxicity

## Section 12. Ecological information

| Product/ingredient name | Result                                       | Species                                | Exposure |
|-------------------------|--|--|----------|
| methyl acetate          | Acute EC50 >120 mg/l Fresh water             | Algae                                  | 72 hours |
|                         | Acute EC50 1026.7 mg/l Fresh water           | Daphnia                                | 48 hours |
|                         | Acute LC50 320000 µg/l Fresh water           | Fish - Pimephales promelas             | 96 hours |
|                         | Acute NOEC 120 mg/l Fresh water              | Algae                                  | 72 hours |
| n-hexane                | Acute LC50 2500 µg/l Fresh water             | Fish - Pimephales promelas             | 96 hours |
|                         | Acute EC50 12.7 mg/l Fresh water             | Algae                                  | 72 hours |
| vinyl acetate           | Acute LC50 10000 to 100000 µg/l Marine water | Crustaceans - Crangon crangon - Larvae | 48 hours |
|                         | Acute LC50 14000 µg/l Fresh water            | Fish - Pimephales promelas             | 96 hours |
| vinyl neodecanoate      | Acute EC50 2.8 to 4.4 mg/l Fresh water       | Algae                                  | 72 hours |
|                         | Acute EC50 1.8 mg/l Fresh water              | Daphnia                                | 48 hours |
|                         | Acute LC50 0.84 mg/l Fresh water             | Fish                                   | 96 hours |
|                         | Acute NOEC 1.5 mg/l Fresh water              | Daphnia                                | 48 hours |

**Conclusion/Summary** : Not available.

### Persistence and degradability

| Product/ingredient name | Test  | Result                   | Dose | Inoculum |
|-------------------------|---|--------------------------|------|----------|
| methyl acetate          | OECD 301D Ready Biodegradability - Closed Bottle Test | 70 % - Readily - 28 days | -    | -        |
| vinyl acetate           | 301C Ready Biodegradability - Modified MITI Test (I)  | 82 to 98 % - 14 days     | -    | -        |

**Conclusion/Summary** : Not available.

| Product/ingredient name | Aquatic half-life | Photolysis | Biodegradability |
|-------------------------|-------------------|------------|------------------|
| methyl acetate          | -                 | -          | Readily          |
| n-hexane                | -                 | -          | Readily          |
| vinyl acetate           | -                 | -          | Readily          |
| vinyl neodecanoate      | -                 | -          | Not readily      |

### Bioaccumulative potential

| Product/ingredient name | LogP <sub>ow</sub> | BCF          | Potential |
|-------------------------|--------------------|--------------|-----------|
| methyl acetate          | 0.18               | -            | low       |
| n-hexane                | 4                  | 501.187      | high      |
| vinyl acetate           | 0.73               | 3.16         | low       |
| vinyl neodecanoate      | 4.9                | 1100 to 1390 | high      |

### Mobility in soil






**Soil/water partition coefficient (K<sub>oc</sub>)** : Not available.

**Other adverse effects** : No known significant effects or critical hazards.

## Section 13. Disposal considerations

**Disposal methods** : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Vapor from product residues may create a highly flammable or explosive atmosphere inside the container. Do not cut, weld or grind used containers unless they have been cleaned thoroughly internally. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

|                                   | <b>TDG Classification</b>  | <b>DOT Classification</b>  | <b>ADR/RID</b>   | <b>IMDG</b>  | <b>IATA</b>  |
|-----------------------------------|--|--|--|--|--|
| <b>UN number</b>                  | UN1133   | UN1133   | UN1133   | UN1133   | UN1133   |
| <b>UN proper shipping name</b>    | ADHESIVES  | Adhesives  | ADHESIVES  | ADHESIVES  | Adhesives  |
| <b>Transport hazard class(es)</b> | 3<br> | 3<br> | 3<br> | 3<br> | 3<br> |
| <b>Packing group</b>              | III  | III  | III  | III  | III  |
| <b>Environmental hazards</b>      | No.  | No.  | No.  | No.  | No.  |

### Additional information

#### TDG Classification

: Product classified as per the following sections of the Transportation of Dangerous Goods Regulations: 2.18-2.19 (Class 3).  
**Explosive Limit and Limited Quantity Index** 5  
**Passenger Carrying Road or Rail Index** 60

#### DOT Classification

: **Limited quantity** Yes.  
**Packaging instruction** Exceptions: 150. Non-bulk: 173. Bulk: 242.  
**Quantity limitation** Passenger aircraft/rail: 60 L. Cargo aircraft: 220 L.  
**Special provisions** B1, B52, IB3, T2, TP1

#### ADR/RID

: **Limited quantity** 5 L  
**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 450 L according to 2.2.3.1.5.1.  
**Tunnel code** (E)

#### IMDG

: **Emergency schedules** F-E, S-D  
**Special provisions** 223, 955  
**Viscous liquid exception** This class 3 viscous liquid is not subject to regulation in packagings up to 30 L according to 2.3.2.5.

## Section 14. Transport information

**IATA** : **Quantity limitation** Passenger and Cargo Aircraft: 60 L. Packaging instructions: 355. Cargo Aircraft Only: 220 L. Packaging instructions: 366. Limited Quantities - Passenger Aircraft: 10 L. Packaging instructions: Y344.  
**Special provisions** A3

**Special precautions for user** : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**Transport in bulk according to Annex II of MARPOL and the IBC Code** : Not available.

## Section 15. Regulatory information

### Canadian lists

**Canadian NPRI** : The following components are listed: n-hexane

**CEPA Toxic substances** : None of the components are listed.

**Canada inventory** : Not determined.

### International regulations

#### Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

#### Montreal Protocol

Not listed.

#### Stockholm Convention on Persistent Organic Pollutants

Not listed.

#### Rotterdam Convention on Prior Informed Consent (PIC)

Not listed.

#### UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

## Section 16. Other information

### History

**Date of issue/Date of revision** : 02/05/2019

**Date of previous issue** : No previous validation

**Version** : 1

**Prepared by** : Sphera Solutions

**Key to abbreviations** : ATE = Acute Toxicity Estimate  
BCF = Bioconcentration Factor  
GHS = Globally Harmonized System of Classification and Labelling of Chemicals  
HPR = Hazardous Products Regulations  
IATA = International Air Transport Association  
IBC = Intermediate Bulk Container  
IMDG = International Maritime Dangerous Goods  
LogPow = logarithm of the octanol/water partition coefficient  
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)  
N/A = Not available

## Section 16. Other information

UN = United Nations

### Procedure used to derive the classification

| <b>Classification</b>  | <b>Justification</b>  |
|--|-----------------------|
| FLAMMABLE LIQUIDS - Category 2   | On basis of test data |
| SKIN IRRITATION - Category 2   | Calculation method    |
| EYE IRRITATION - Category 2A   | Calculation method    |
| CARCINOGENICITY - Category 2   | Calculation method    |
| TOXIC TO REPRODUCTION (Fertility) - Category 2   | Calculation method    |
| TOXIC TO REPRODUCTION (Unborn child) - Category 2  | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Respiratory tract irritation) - Category 3 | Calculation method    |
| SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) (Narcotic effects) - Category 3             | Calculation method    |

**References** : HPR = Hazardous Products Regulations

✔ Indicates information that has changed from previously issued version.

### Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.