SAFETY DATA SHEET

1. Identification

Product identifier
Carlon Low-VOC Solvent Cement for PVC Plastic Pipe

Other means of identification
SDS number: SDS-00060
Product code: VC9965C, VC9964, VC9963, VC9963C, VC9962, VC9961P, VC9924-24, VC9924, VC9923, VC9922, VC9941P, VC9LV4, VC9LV4-24, VC9LV4L-24, VC9LV3L-12, VC9LV2, VC9LV3

Recommended use
Low-VOC solvent cement for PVC plastic pipe

Recommended restrictions
None known.

Manufacturer/Importer/Supplier/Distributor information
Company name: Thomas & Betts Corporation
Address: 8155 T & B Boulevard
Memphis, TN 38125
US
Telephone: 901-252-5000 ext.8324
E-mail: Not available.
Emergency phone number: For Hazardous Materials [or Dangerous Goods] Incident
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night
+1 703-741-5970

2. Hazard(s) identification

Physical hazards
Flammable liquids Category 2

Health hazards
Acute toxicity, oral Category 4
Acute toxicity, inhalation Category 4
Skin corrosion/irritation Category 2
Serious eye damage/eye irritation Category 2A
Carcinogenicity Category 2
Specific target organ toxicity, single exposure Category 3 respiratory tract irritation

OSHA defined hazards
Not classified.

Label elements
Signal word: Danger


Precautionary statement
Prevention
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. Avoid breathing mist or vapor. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection.

Response
If swallowed: Call a poison center/doctor if you feel unwell. Rinse mouth. 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. Immediately call a poison center/doctor. If skin irritation occurs: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use alcohol-resistant foam, carbon dioxide, dry powder or water fog for extinction.

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Carlon Low-VOC Solvent Cement for PVC Plastic Pipe
933443 Revision: 0 Revision date: - Issue date: 06-May-2016
3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone (Methyl ethyl ketone)</td>
<td>78-93-3</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Acetone</td>
<td>67-64-1</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Cyclohexanone</td>
<td>108-94-1</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC;</td>
<td>9002-86-2</td>
<td>Proprietary</td>
</tr>
<tr>
<td>Furan, Tetrahydro-</td>
<td>109-99-9</td>
<td>Proprietary</td>
</tr>
</tbody>
</table>

Composition comments

The exact percentage (concentration) of composition has been withheld as a trade secret. Components not listed are either non-hazardous or are below reportable limits. All concentrations are in percent by weight unless ingredient is a gas.

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. Call a POISON CENTER or doctor/physician if you feel unwell.

Skin contact
Take off immediately all contaminated clothing. Rinse skin with water/shower. Get medical advice/attention if you feel unwell. If skin irritation occurs: Get medical advice/attention. 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. Get medical attention immediately.

Ingestion
Rinse mouth. If vomiting occurs, keep head low so that stomach content doesn’t get into the lungs. Get medical advice/attention if you feel unwell.

Most important symptoms/effects, acute and delayed
Headache. Dizziness. Nausea. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure to dust may cause chronic effects.

Indication of immediate medical attention and special treatment needed
Provide general supportive measures and treat symptomatically.

General information

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

Suitable extinguishing media
Water fog. Alcohol resistant foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
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.

Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
In case of fire and/or explosion do not breathe fumes. Move containers from fire area if you can do so without risk.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
Highly flammable firefighting procedures and consider the hazards of other involved materials.
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. Avoid inhalation of vapors and spray mists. 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

Use water spray to reduce vapors or divert vapor cloud drift. 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 product is miscible in water.

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. 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. Wipe up with absorbent material (e.g. cloth, fleece). 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.

Environmental precautions

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. 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 get this material in contact with eyes. Do not taste or swallow. Avoid inhalation of vapors and spray mists. Avoid contact with eyes, skin, and clothing. Avoid prolonged exposure. When using, do not eat, drink or smoke. Should be handled in closed systems, if possible. Use only outdoors or in a well-ventilated area. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Wash contaminated clothing before reuse. 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 original 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 Specifically Regulated Substances (29 CFR 1910.1001-1050)

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)</td>
<td>STEL</td>
<td>5 ppm</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>1 ppm</td>
</tr>
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</table>

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

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)</td>
<td>PEL</td>
<td>590 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>PEL</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>PEL</td>
<td>200 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 ppm</td>
<td></td>
</tr>
<tr>
<td>Components</td>
<td>Type</td>
<td>Value</td>
<td>Form</td>
</tr>
<tr>
<td>---------------------------------------------------------------------------</td>
<td>-------</td>
<td>-----------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>Furan, Tetrahydro- (CAS 109-99-9)</td>
<td>PEL</td>
<td>15 mg/m3</td>
<td>Total dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td>590 mg/m3</td>
<td></td>
</tr>
<tr>
<td>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)</td>
<td></td>
<td>200 ppm</td>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>Furan, Tetrahydro- (CAS 109-99-9)</td>
<td></td>
<td>15 mg/m3</td>
<td>Total dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td>50 mppcf</td>
<td>Total dust</td>
</tr>
<tr>
<td></td>
<td></td>
<td>15 mppcf</td>
<td>Respirable fraction</td>
</tr>
<tr>
<td>US. OSHA Table Z-3 (29 CFR 1910.1000)</td>
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<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)</td>
<td>STEL</td>
<td>300 ppm</td>
<td></td>
</tr>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>TWA</td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>750 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>500 ppm</td>
<td></td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>STEL</td>
<td>50 ppm</td>
<td></td>
</tr>
<tr>
<td>Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)</td>
<td>TWA</td>
<td>20 ppm</td>
<td>Respirable particles</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>3 mg/m3</td>
<td></td>
</tr>
<tr>
<td>Furan, Tetrahydro- (CAS 109-99-9)</td>
<td>STEL</td>
<td>100 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>50 ppm</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)</td>
<td>STEL</td>
<td>885 mg/m3</td>
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<td>TWA</td>
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<tr>
<td></td>
<td></td>
<td>590 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
<td></td>
</tr>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>TWA</td>
<td>590 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>250 ppm</td>
<td></td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>TWA</td>
<td>100 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>25 ppm</td>
<td></td>
</tr>
<tr>
<td>Furan, Tetrahydro- (CAS 109-99-9)</td>
<td>STEL</td>
<td>735 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>250 ppm</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>590 mg/m3</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>200 ppm</td>
<td></td>
</tr>
</tbody>
</table>

US. ACGIH Threshold Limit Values

US. NIOSH: Pocket Guide to Chemical Hazards

Carlon Low-VOC Solvent Cement for PVC Plastic Pipe

SDS US

933443 Revision: 0 Revision date: - Issue date: 06-May-2016

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Biological limit values

ACGIH Biological Exposure Indices

<table>
<thead>
<tr>
<th>Components</th>
<th>Value</th>
<th>Determinant</th>
<th>Specimen</th>
<th>Sampling Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone (Methyl ethyl ketone)</td>
<td>2 mg/l</td>
<td>MEK</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>50 mg/l</td>
<td>Acetone</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>80 mg/l</td>
<td>1,2-Cyclohexanediol, with hydrolysis</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td></td>
<td>8 mg/l</td>
<td>Cyclohexanol, with hydrolysis</td>
<td>Urine</td>
<td>*</td>
</tr>
<tr>
<td>Furan, Tetrahydro- (CAS 109-99-9)</td>
<td>2 mg/l</td>
<td>Tetrahydrofuran</td>
<td>Urine</td>
<td>*</td>
</tr>
</tbody>
</table>

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

Exposure guidelines

**US - California OELs: Skin designation**

- 2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) Can be absorbed through the skin.
- Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

**US - Minnesota Haz Subs: Skin designation applies**

- Cyclohexanone (CAS 108-94-1) Skin designation applies.

**US - Tennessee OELs: Skin designation**

- Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

**US ACGIH Threshold Limit Values: Skin designation**

- Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.
- Furan, Tetrahydro- (CAS 109-99-9) Can be absorbed through the skin.

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

- Cyclohexanone (CAS 108-94-1) Can be absorbed through the skin.

Appropriate engineering controls

Explosion-proof general and local exhaust ventilation. Good general ventilation (typically 10 air changes per hour) 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. Eye wash facilities and emergency shower must be available when handling this product.

Individual protection measures, such as personal protective equipment

- **Eye/face protection**
  - Chemical respirator with organic vapor cartridge and full facepiece.

- **Skin protection**
  - **Hand protection**
    - Wear appropriate chemical resistant gloves. 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**
  - Chemical respirator with organic vapor cartridge and full facepiece.

- **Thermal hazards**
  - Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Observe any medical surveillance requirements. When using do not smoke. Keep away from food and drink. 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**

- Liquid, various colors.

**Physical state**

- Liquid.

**Form**

- Not available.

**Color**


**Odor**

- Ether-like.

**Odor threshold**

- 0.88 ppm

**pH**

- Not available.

**Melting point/freezing point**

- - 108 °C
Initial boiling point and boiling range
56 °C

Flash point
- 20 °C

Evaporation rate
> 1.0 (Butyl acetate = 1)

Flammability (solid, gas)
Not applicable.

Upper/lower flammability or explosive limits

- Flammability limit - lower (%)
  Not available.

- Flammability limit - upper (%)
  Not available.

- Explosive limit - lower (%) 1.8 %

- Explosive limit - upper (%) 12.8 %

Vapor pressure
190 mm Hg @ 20 °C

Vapor density
2.5 (Air = 1)

Relative density
0.900 (Water = 1)

Solubility(ies)

- Solubility (water)
  Solvent portion soluble in water. Resin portion separates out.

Partition coefficient (n-octanol/water)
Not available.

Auto-ignition temperature
321 °C

Decomposition temperature
Not available.

Viscosity
Not available.

Other information

- Explosive properties
  Not explosive.

- Oxidizing properties
  Not oxidizing.

- VOC (Weight %)
  VOC emissions when tested per SCAQMD Rule 1168, Test Method 316A is 470 g/L

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
No dangerous reaction known under conditions of normal use.

Conditions to avoid
Avoid heat, sparks, open flames and other ignition sources. Contact with incompatible materials.

Incompatible materials

Hazardous decomposition products

11. Toxicological information

Information on likely routes of exposure

- Inhalation
  Harmful if inhaled.

- Skin contact
  Harmful in contact with skin. Causes skin irritation.

- Eye contact
  Causes serious eye irritation.

- Ingestion
  Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics
Headache. Dizziness. Nausea. Symptoms may include stinging, tearing, redness, swelling, and blurred vision. Permanent eye damage including blindness could result. May cause respiratory irritation. Skin irritation. May cause redness and pain. Prolonged exposure to dust may cause chronic effects.

Information on toxicological effects

Acute toxicity
Harmful if inhaled. Harmful if swallowed.
Components | Species | Test Results
--- | --- | ---
**Acetone (CAS 67-64-1)**

**Acute**

*Dermal*
LD50 | Rabbit | 20 ml/kg

*Inhalation*
LC50 | Rat | 76 mg/l, 4 Hours

LC50 | Rat | 50.1 mg/l, 8 Hours

**Cyclohexanone (CAS 108-94-1)**

**Acute**

*Dermal*
LD50 | Rabbit | 948 mg/kg

*Inhalation*
LC50 | Rat | 8000 ppm, 4 hours

Oral
LD50 | Rat | 800 mg/kg

**Skin corrosion/irritation**
Causes skin irritation.

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

**Respiratory or skin sensitization**

*Respiratory sensitization*
Not a respiratory sensitizer.

*Skin sensitization*
This product is not expected to cause skin sensitization.

**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 Evaluation of Carcinogenicity*
Cyclohexanone (CAS 108-94-1) 3 Not classifiable as to carcinogenicity to humans.
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2) 3 Not classifiable as to carcinogenicity to humans.

**NTP Report on Carcinogens**
Not listed.

Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; Cancer
(CAS 9002-86-2)

**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**
Not classified.

**Aspiration hazard**
Not an aspiration hazard.

**Chronic effects**
Prolonged inhalation may be harmful.

**12. Ecological information**

**Ecotoxicity**
The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

**Components** | **Species** | **Test Results**
--- | --- | ---
**Acetone (CAS 67-64-1)**

**Aquatic**
Fish | LC50 | Fathead minnow (Pimephales promelas) 5490 - 7030 mg/l, 96 hours

**Cyclohexanone (CAS 108-94-1)**

**Aquatic**
Fish | LC50 | Fathead minnow (Pimephales promelas) 481 - 578 mg/l, 96 hours

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

<table>
<thead>
<tr>
<th>Partition coefficient n-octanol / water (log Kow)</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)</td>
<td>0.29</td>
</tr>
<tr>
<td>Acetone (CAS 67-64-1)</td>
<td>-0.24</td>
</tr>
<tr>
<td>Cyclohexanone (CAS 108-94-1)</td>
<td>0.81</td>
</tr>
<tr>
<td>Furan, Tetrahydro- (CAS 109-99-9)</td>
<td>0.46</td>
</tr>
</tbody>
</table>

Mobility in soil: The product is partly soluble in water.

Other adverse effects: No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions: Collect and reclaim or dispose in sealed containers at licensed waste disposal site. 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 (see: Disposal instructions).

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

<table>
<thead>
<tr>
<th>UN number</th>
<th>UN1133</th>
</tr>
</thead>
<tbody>
<tr>
<td>UN proper shipping name</td>
<td>Adhesives, containing a flammable liquid</td>
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<tr>
<td>Transport hazard class(es)</td>
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</tr>
<tr>
<td>Class</td>
<td>3</td>
</tr>
<tr>
<td>Subsidiary risk</td>
<td>-</td>
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<tr>
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<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
</tr>
<tr>
<td>Special provisions</td>
<td>149, B52, IB2, T4, TP1, TP8</td>
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<td>Packaging exceptions</td>
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IATA

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<tr>
<td>UN proper shipping name</td>
<td>Adhesives containing flammable liquid</td>
</tr>
<tr>
<td>Transport hazard class(es)</td>
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</tr>
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<tr>
<td>Subsidiary risk</td>
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<td>Packing group</td>
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<tr>
<td>Environmental hazards</td>
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<tr>
<td>ERG Code</td>
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<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
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IMDG

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<td>ADHESIVES containing flammable liquid</td>
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<td>Transport hazard class(es)</td>
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<td>Subsidiary risk</td>
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<tr>
<td>Packing group</td>
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<tr>
<td>Environmental hazards</td>
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<td>Marine pollutant</td>
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<td>EmS</td>
<td>F-E, S-D</td>
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<td>Special precautions for user</td>
<td>Read safety instructions, SDS and emergency procedures before handling.</td>
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</tbody>
</table>
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

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.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)
- Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; Cancer (CAS 9002-86-2)
  - Central nervous system
  - Liver
  - Blood
  - Flammability

CERCLA Hazardous Substance List (40 CFR 302.4)
- 2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) LISTED
- Acetone (CAS 67-64-1) LISTED
- Cyclohexanone (CAS 108-94-1) LISTED
- Furan, Tetrahydro- (CAS 109-99-9) LISTED

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
- Immediate Hazard - Yes
- Delayed Hazard - Yes
- Fire Hazard - Yes
- Pressure Hazard - No
- Reactivity Hazard - No

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

Drug Enforcement Administration (DEA). List 2, Essential Chemicals (21 CFR 1310.02(b) and 1310.04(f)(2) and Chemical Code Number
- 2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) 6714
- Acetone (CAS 67-64-1) 6532

Drug Enforcement Administration (DEA). List 1 & 2 Exempt Chemical Mixtures (21 CFR 1310.12(c))
- 2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) 35 %WV
- Acetone (CAS 67-64-1) 35 %WV

DEA Exempt Chemical Mixtures Code Number
- 2-Butanone (Methyl ethyl ketone) (CAS 78-93-3) 6714
- Acetone (CAS 67-64-1) 6532

US state regulations

US. Massachusetts RTK - Substance List
- 2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)
- Acetone (CAS 67-64-1)
- Cyclohexanone (CAS 108-94-1)
- Furan, Tetrahydro- (CAS 109-99-9)
US. New Jersey Worker and Community Right-to-Know Act
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)
Acetone (CAS 67-64-1)
Cyclohexanone (CAS 108-94-1)
Ethene, chloro-, homopolymer, Polyvinyl chloride; PVC; (CAS 9002-86-2)
Furan, Tetrahydro- (CAS 109-99-9)

US. Pennsylvania Worker and Community Right-to-Know Law
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)
Acetone (CAS 67-64-1)
Cyclohexanone (CAS 108-94-1)
Furan, Tetrahydro- (CAS 109-99-9)

US. Rhode Island RTK
2-Butanone (Methyl ethyl ketone) (CAS 78-93-3)
Acetone (CAS 67-64-1)
Cyclohexanone (CAS 108-94-1)
Furan, Tetrahydro- (CAS 109-99-9)

US. California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

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

*A "Yes" indicates this product complies 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 06-May-2016
Revision date -
Revision # 0

HMIS® ratings
Health: 2*
Flammability: 3
Physical hazard: 0
Personal protection: B

NFPA ratings

Disclaimer
Thomas & Betts Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. The information in the sheet was written based on the best knowledge and experience currently available.