

# MSS20; MCT20 Seam Sealers

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations

Revision Date: 01/20/2016

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Version: 1.0

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** MSS20; MCT20 Seam Sealers

#### 1.2. Intended Use of the Product

**Use of the substance/mixture:** Vinyl flooring adhesive /seam sealer

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Mannington Mills, Inc.  
P.O. Box 30 - Route 45  
75 Mannington Mills Road  
Salem, New Jersey 08079  
General: (856) 935-3000

#### 1.4. Emergency Telephone Numbers:

**Product/Medical Emergency phone number (24 hours): (866) 359-5602**

**Transport Emergency:**

**Within the U.S. - CHEMTREC: (800) 424-9300,**

**Outside the U.S. - CHEMTREC: +1-703-527-3887**

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US classification

Flam. Liq. 2 H225

Acute Tox. 4 (Oral) H302

Skin Irrit. 2 H315

Eye Dam. 1 H318

Carc. 2 H351

STOT SE 3 H335

Aquatic Acute 3 H402

Full text of H-phrases: see section 16

#### 2.2. Label Elements

##### GHS-US Labeling

##### Hazard Pictograms (GHS-US)



##### Signal Word (GHS-US)

##### Hazard Statements (GHS-US)

##### Precautionary Statements (GHS-US)

: Danger

: H225 - Highly flammable liquid and vapor.

H302 - Harmful if swallowed.

H315 - Causes skin irritation.

H318 - Causes serious eye damage.

H335 - May cause respiratory irritation.

H351 - Suspected of causing cancer.

H402 - Harmful to aquatic life.

: P201 - Obtain special instructions before use.

P202 - Do not handle until all safety precautions have been read and understood.

P210 - Keep away from extremely high or low temperatures, ignition sources, and incompatible materials. - No smoking.

P233 - Keep container tightly closed.

P240 - Ground/bond container and receiving equipment.

P241 - Use explosion-proof electrical, ventilating, and lighting equipment.

P242 - Use only non-sparking tools.

P243 - Take precautionary measures against static discharge.

P261 - Avoid breathing vapors, mist, or spray.

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P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P273 - Avoid release to the environment.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P301+P312 - If swallowed: Call a poison center or doctor if you feel unwell.  
P303+P361+P353 - If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.  
P304+P340 - If inhaled: Remove person to fresh air and keep at rest in a position comfortable for breathing.  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - If exposed or concerned: Get medical advice/attention.  
P330 - Rinse mouth.  
P332+P313 - If skin irritation occurs: Get medical advice/attention.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P370+P378 - In case of fire: Use appropriate media (see section 5) to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.  
P501 - Dispose of contents/container in accordance with local, regional, national, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate those with pre-existing eye, skin, or respiratory conditions. The substance can form explosive peroxides: Peroxides may accumulate upon prolonged storage in presence of air. The substance may polymerize, if not properly inhibited. Reacts violently with strong oxidants, strong bases, and some metal halides causing fire and explosion hazard. May attack some forms of plastic rubber and coatings.

### 2.4. Unknown Acute Toxicity (GHS-US)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name               | Product Identifier | %     | GHS-US classification   |
|--------------------|--------------------|-------|---|
| Tetrahydrofuran    | (CAS No) 109-99-9  | 72.14 | Flam. Liq. 2, H225<br>Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2A, H319<br>Carc. 2, H351<br>STOT SE 3, H335  |
| Cyclohexanone      | (CAS No) 108-94-1  | 19.12 | Flam. Liq. 3, H226<br>Acute Tox. 4 (Oral), H302<br>Acute Tox. 4 (Dermal), H312<br>Acute Tox. 4 (Inhalation:gas), H332<br>Skin Irrit. 2, H315<br>Eye Dam. 1, H318<br>Aquatic Acute 2, H401 |
| Polyvinyl chloride | (CAS No) 9002-86-2 | 8.3   | Comb. Dust  |

Full text of H-phrases: see section 16

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First Aid Measures

**First-aid Measures General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**First-aid Measures After Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**First-aid Measures After Skin Contact:** Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation develops or persists.

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**First-aid Measures After Eye Contact:** Rinse cautiously with water for at least 60 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**First-aid Measures After Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

## 4.2. Most important symptoms and effects, both acute and delayed

**Symptoms/Injuries:** Causes serious eye damage. Causes skin irritation. May cause respiratory irritation. Harmful if swallowed. Suspected of causing cancer.

**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** Harmful if swallowed. May cause central nervous system effects.

**Chronic Symptoms:** Suspected of causing cancer.

## 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>), water, and water spray.

Water should be used to keep fire-exposed container cool.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. A heavy water stream may spread burning liquid.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Highly flammable liquid and vapor.

**Explosion Hazard:** May form flammable or explosive vapor-air mixture. May form explosive peroxides when exposed to air, may undergo violent self-polymerization if inhibitor is lost or product is exposed to excessive heat. Peroxides and their decomposition products can be flammable, can ignite when heated, and explode under confinement. Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

**Reactivity:** Increased risk of fire or explosion. When exposed to air, unstabilized tetrahydrofuran forms unstable peroxides that may spontaneously explode when their concentrations exceed 1 percent. Contact of tetrahydrofuran with strong oxidizing agents and other incompatible materials may cause violent reactions and explosions. Tetrahydrofuran may polymerize in the presence of cationic initiators. Contact with lithium aluminum hydride, other lithium-aluminum alloys, or with sodium or potassium hydroxide can be hazardous if peroxides are present. Refluxing with calcium hydroxide can cause explosions. Attacks some forms of plastics, rubber, and coatings.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire. Vapors are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapors.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Other Information:** Do not allow run-off from fire fighting to enter drains or water sources.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

#### 6.1.1. For Non-emergency Personnel

**Protective Equipment:** Use appropriate personal protection equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel. Stop leak if safe to do so.

#### 6.1.2. For Emergency Responders

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Ventilate area. Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Eliminate ignition sources.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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## 6.3. Methods and Material for Containment and Cleaning Up

**For Containment:** As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area. Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill. Use only non-sparking tools.

## 6.4. Reference to Other Sections

See Heading 8. Exposure controls and personal protection. See Section 13, Disposal Considerations.

## SECTION 7: HANDLING AND STORAGE

### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** May form explosive peroxides when exposed to air, may undergo violent self-polymerization if inhibitor is lost or product is exposed to excessive heat. Handle empty containers with care because residual vapors are flammable.

**Precautions for Safe Handling:** Do not get in eyes, on skin, or on clothing. Do not breathe gas, mist, vapors, fumes, or spray. Take precautionary measures against static discharge. Use only non-sparking tools. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.

**Storage Conditions:** Store in a dry, cool place. Store in a well-ventilated place. Peroxides may form when stored in unsealed, open containers. Keep away from flame, sparks and excessive temperatures. Keep in fireproof place. Bond and ground containers. Store only in approved containers. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

**Incompatible Products:** Strong oxidizers. Strong bases. Amines. Metallic halides. Lithium-aluminum alloys. Some forms of plastics, rubber, and coatings.

### 7.3. Specific End Use(s)

Vinyl flooring adhesive /seam sealer

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), or OSHA (PEL).

| Tetrahydrofuran (109-99-9) |                                       |  |
|----------------------------|---------------------------------------|--|
| USA ACGIH                  | ACGIH TWA (ppm)                       | 50 ppm   |
| USA ACGIH                  | ACGIH STEL (ppm)                      | 100 ppm  |
| USA ACGIH                  | ACGIH chemical category               | Skin - potential significant contribution to overall exposure by the cutaneous route, Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| USA ACGIH                  | Biological Exposure Indices (BEI)     | 2 mg/l (Medium: urine - Time: end of shift - Parameter: Tetrahydrofuran)   |
| USA NIOSH                  | NIOSH REL (TWA) (mg/m <sup>3</sup> )  | 590 mg/m <sup>3</sup>  |
| USA NIOSH                  | NIOSH REL (TWA) (ppm)                 | 200 ppm  |
| USA NIOSH                  | NIOSH REL (STEL) (mg/m <sup>3</sup> ) | 735 mg/m <sup>3</sup>  |
| USA NIOSH                  | NIOSH REL (STEL) (ppm)                | 250 ppm  |
| USA IDLH                   | US IDLH (ppm)                         | 2000 ppm (10% LEL)   |
| USA OSHA                   | OSHA PEL (TWA) (mg/m <sup>3</sup> )   | 590 mg/m <sup>3</sup>  |
| USA OSHA                   | OSHA PEL (TWA) (ppm)                  | 200 ppm  |
| Cyclohexanone (108-94-1)   |                                       |  |
| USA ACGIH                  | ACGIH TWA (ppm)                       | 20 ppm   |
| USA ACGIH                  | ACGIH STEL (ppm)                      | 50 ppm   |
| USA ACGIH                  | ACGIH chemical category               | Skin - potential significant contribution to overall exposure by the cutaneous route, Confirmed Animal Carcinogen with Unknown Relevance to Humans |
| USA ACGIH                  | Biological Exposure Indices (BEI)     | 80 mg/l (Medium: urine - Time: end of shift at end of workweek -   |

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|                                       |                                      |  |
|---------------------------------------|--------------------------------------|--|
|                                       |                                      | Parameter: 1,2-Cyclohexanediol with hydrolysis (nonspecific, semi-quantitative)<br>8 mg/l (Medium: urine - Time: end of shift - Parameter: Cyclohexanol with hydrolysis (nonspecific, semi-quantitative) |
| <b>USA NIOSH</b>                      | NIOSH REL (TWA) (mg/m <sup>3</sup> ) | 100 mg/m <sup>3</sup>  |
| <b>USA NIOSH</b>                      | NIOSH REL (TWA) (ppm)                | 25 ppm   |
| <b>USA IDLH</b>                       | US IDLH (ppm)                        | 700 ppm  |
| <b>USA OSHA</b>                       | OSHA PEL (TWA) (mg/m <sup>3</sup> )  | 200 mg/m <sup>3</sup>  |
| <b>USA OSHA</b>                       | OSHA PEL (TWA) (ppm)                 | 50 ppm   |
| <b>Polyvinyl chloride (9002-86-2)</b> |                                      |  |
| <b>USA ACGIH</b>                      | ACGIH TWA (mg/m <sup>3</sup> )       | 1 mg/m <sup>3</sup> (respirable fraction)  |
| <b>USA ACGIH</b>                      | ACGIH chemical category              | Not Classifiable as a Human Carcinogen   |

## 8.2. Exposure Controls

### Appropriate Engineering Controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment. Ensure all national/local regulations are observed.

### Personal Protective Equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection. Face shield.



### Materials for Protective Clothing

: Chemically resistant materials and fabrics. Wear fire/flame resistant/retardant clothing.

### Hand Protection

: Wear protective gloves.

### Eye Protection

: Chemical goggles or face shield.

### Skin and Body Protection

: Wear suitable protective clothing.

### Respiratory Protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation or where exposure levels are not known wear approved respiratory protection.

### Other Information

: When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|  |                           |
|--|---------------------------|
| <b>Physical State</b>                  | : Liquid                  |
| <b>Appearance</b>                      | : Clear, colorless liquid |
| <b>Odor</b>                            | : Solvent odor            |
| <b>Odor Threshold</b>                  | : No data available       |
| <b>pH</b>                              | : No data available       |
| <b>Evaporation Rate</b>                | : Slower than ether       |
| <b>Melting Point</b>                   | : No data available       |
| <b>Freezing Point</b>                  | : No data available       |
| <b>Boiling Point</b>                   | : 66.11 °C (151 °F)       |
| <b>Flash Point</b>                     | : -14.44 °C (6 °F)        |
| <b>Auto-ignition Temperature</b>       | : No data available       |
| <b>Decomposition Temperature</b>       | : No data available       |
| <b>Flammability (solid, gas)</b>       | : No data available       |
| <b>Vapor Pressure</b>                  | : No data available       |
| <b>Relative Vapor Density at 20 °C</b> | : Heavier than air        |
| <b>Relative Density</b>                | : No data available       |
| <b>Specific Gravity</b>                | : 0.92                    |

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**Solubility** : Essentially insoluble in water

**Partition Coefficient: N-Octanol/Water** : No data available

**Viscosity** : No data available

## 9.2. Other Information

**VOC content** : 741 g/l (Approximate value, calculated)

**Volatiles (Wt. %)** : 92%

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity:** Increased risk of fire or explosion. When exposed to air, unstabilized tetrahydrofuran forms unstable peroxides that may spontaneously explode when their concentrations exceed 1 percent. Contact of tetrahydrofuran with strong oxidizing agents and other incompatible materials may cause violent reactions and explosions. Tetrahydrofuran may polymerize in the presence of cationic initiators. Contact with lithium aluminum hydride, other lithium-aluminum alloys, or with sodium or potassium hydroxide can be hazardous if peroxides are present. Refluxing with calcium hydroxide can cause explosions. Attacks some forms of plastics, rubber, and coatings.

**10.2. Chemical Stability:** Some substances contained within this product are unstable, may degrade or undergo hazardous polymerization when exposed to air, light or are not inhibited. Take appropriate precautions when using, storing, and transporting this material. Follow all applicable regulations.

**10.3. Possibility of Hazardous Reactions:** Hazardous polymerization may occur. May polymerize violently or explosively if contaminated or overheated.

**10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

**10.5. Incompatible Materials:** Strong oxidizers. Strong bases. Amines. Metallic halides. Lithium-aluminum alloys. Some forms of plastics, rubber, and coatings.

**10.6. Hazardous Decomposition Products:** May form explosive peroxides. Carbon oxides (CO, CO<sub>2</sub>). Toxic fumes. Toxic gases.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1. Information On Toxicological Effects

**Acute Toxicity:** Oral: Harmful if swallowed.

| MSS20; MCT20 Seam Sealers  |                                |
|----------------------------|--------------------------------|
| ATE (Oral)                 | 1,801.03 mg/kg body weight     |
| Tetrahydrofuran (109-99-9) |                                |
| LD50 Oral Rat              | 1650 mg/kg                     |
| LC50 Inhalation Rat        | 53.65 mg/l/4h                  |
| LC50 Inhalation Rat        | 21000 ppm (Exposure time: 3 h) |
| Cyclohexanone (108-94-1)   |                                |
| LD50 Oral Rat              | 1620 mg/kg                     |
| LD50 Dermal Rabbit         | 947 mg/kg                      |
| LC50 Inhalation Rat        | 9.8 mg/l/4h                    |
| LC50 Inhalation Rat        | 8000 ppm/4h                    |
| ATE (Dermal)               | 1,100.00 mg/kg body weight     |

**Skin Corrosion/Irritation:** Causes skin irritation.

**Serious Eye Damage/Irritation:** Causes serious eye damage.

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** Suspected of causing cancer.

| Tetrahydrofuran (109-99-9)               |                              |
|--|------------------------------|
| National Toxicology Program (NTP) Status | Evidence of Carcinogenicity. |
| Cyclohexanone (108-94-1)                 |                              |
| IARC group                               | 3                            |
| Polyvinyl chloride (9002-86-2)           |                              |
| IARC group                               | 3                            |

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Specific Target Organ Toxicity (Repeated Exposure):** Not classified

**Aspiration Hazard:** Not classified

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**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. High concentrations may cause central nervous system depression such as dizziness, vomiting, numbness, drowsiness, headache, and similar narcotic symptoms.

**Symptoms/Injuries After Skin Contact:** Causes skin irritation. Symptoms may include: Redness, pain, swelling, itching, burning, dryness, and dermatitis.

**Symptoms/Injuries After Eye Contact:** Causes permanent damage to the cornea, iris, or conjunctiva.

**Symptoms/Injuries After Ingestion:** Harmful if swallowed. May cause central nervous system effects.

**Chronic Symptoms:** Suspected of causing cancer.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1. Toxicity

**Ecology - General** : Harmful to aquatic life. Keep out of sewers and waterways.

| Tetrahydrofuran (109-99-9) |   |
|----------------------------|---|
| LC50 Fish 1                | 1970 (1970 - 2360) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through]) |
| LC 50 Fish 2               | 2700 (2700 - 3600) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])       |
| Cyclohexanone (108-94-1)   |   |
| LC50 Fish 1                | 481 (481 - 578) mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])    |
| EC50 Daphnia 1             | 800 mg/l  |
| LC 50 Fish 2               | 8.9 mg/l (Exposure time: 96 h - Species: Pimephales promelas)                               |

### 12.2. Persistence and Degradability

| MSS20; MCT20 Seam Sealers     |                  |
|-------------------------------|------------------|
| Persistence and Degradability | Not established. |

### 12.3. Bioaccumulative Potential

| MSS20; MCT20 Seam Sealers  |                           |
|----------------------------|---------------------------|
| Bioaccumulative Potential  | Not established.          |
| Tetrahydrofuran (109-99-9) |                           |
| BCF fish 1                 | (will not bioconcentrate) |
| Log Pow                    | 0.45 (at 25 °C)           |
| Cyclohexanone (108-94-1)   |                           |
| BCF fish 1                 | (will not bioconcentrate) |
| Log Pow                    | 0.86 (at 25 °C)           |

**12.4. Mobility in Soil** No additional information available

### 12.5. Other Adverse Effects

**Other Information** : Avoid release to the environment.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, and international regulations.

**Additional Information:** Handle empty containers with care because residual vapors are flammable.

**Ecology – Waste Materials:** Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

## SECTION 14: TRANSPORT INFORMATION

### 14.1. In Accordance with DOT

**Proper Shipping Name** : ADHESIVES  
**Hazard Class** : 3  
**Identification Number** : UN1133  
**Label Codes** : 3  
**Packing Group** : II  
**ERG Number** : 128



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## 14.2. In Accordance with IMDG

Proper Shipping Name : ADHESIVES  
 Hazard Class : 3  
 Identification Number : UN1133  
 Packing Group : II  
 Label Codes : 3  
 EmS-No. (Fire) : F-E  
 EmS-No. (Spillage) : S-D



## 14.3. In Accordance with IATA

Proper Shipping Name : ADHESIVES  
 Packing Group : II  
 Identification Number : UN1133  
 Hazard Class : 3  
 Label Codes : 3  
 ERG Code (IATA) : 3L



## SECTION 15: REGULATORY INFORMATION

### 15.1 US Federal Regulations

|   |  |
|---|--|
| <b>MSS20; MCT20 Seam Sealers</b>  |  |
| <b>SARA Section 311/312 Hazard Classes</b>                                | Fire hazard<br>Reactive hazard<br>Immediate (acute) health hazard<br>Delayed (chronic) health hazard |
| <b>Tetrahydrofuran (109-99-9)</b>   |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |
| <b>EPA TSCA Regulatory Flag</b>   | T - T - indicates a substance that is the subject of a Section 4 test rule under TSCA.               |
| <b>Cyclohexanone (108-94-1)</b>   |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |
| <b>Polyvinyl chloride (9002-86-2)</b>                                     |  |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |  |

### 15.2 US State Regulations

|  |  |
|--|--|
| <b>Tetrahydrofuran (109-99-9)</b>  |  |
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List<br>U.S. - Pennsylvania - RTK (Right to Know) List |  |
| <b>Cyclohexanone (108-94-1)</b>  |  |
| U.S. - Massachusetts - Right To Know List<br>U.S. - New Jersey - Right to Know Hazardous Substance List<br>U.S. - Pennsylvania - RTK (Right to Know) - Environmental Hazard List<br>U.S. - Pennsylvania - RTK (Right to Know) List |  |
| <b>Polyvinyl chloride (9002-86-2)</b>  |  |
| U.S. - New Jersey - Right to Know Hazardous Substance List   |  |

## SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Revision Date** : 01/20/2016  
**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200.

### GHS Full Text Phrases:

|                               |  |
|-------------------------------|--|
| Acute Tox. 4 (Dermal)         | Acute toxicity (dermal) Category 4         |
| Acute Tox. 4 (Inhalation:gas) | Acute toxicity (inhalation:gas) Category 4 |



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|                     |  |
|---------------------|--|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4                               |
| Aquatic Acute 2     | Hazardous to the aquatic environment - Acute Hazard Category 2 |
| Aquatic Acute 3     | Hazardous to the aquatic environment - Acute Hazard Category 3 |
| Carc. 2             | Carcinogenicity Category 2                                     |
| Comb. Dust          | Combustible Dust   |
| Eye Dam. 1          | Serious eye damage/eye irritation Category 1                   |
| Eye Irrit. 2A       | Serious eye damage/eye irritation Category 2A                  |
| Flam. Liq. 2        | Flammable liquids Category 2                                   |
| Flam. Liq. 3        | Flammable liquids Category 3                                   |
| Skin Irrit. 2       | Skin corrosion/irritation Category 2                           |
| STOT SE 3           | Specific target organ toxicity (single exposure) Category 3    |
| H225                | Highly flammable liquid and vapor                              |
| H226                | Flammable liquid and vapor                                     |
| Comb. Dust          | May form combustible dust concentrations in air                |
| H302                | Harmful if swallowed   |
| H312                | Harmful in contact with skin                                   |
| H315                | Causes skin irritation   |
| H318                | Causes serious eye damage                                      |
| H319                | Causes serious eye irritation                                  |
| H332                | Harmful if inhaled   |
| H335                | May cause respiratory irritation                               |
| H351                | Suspected of causing cancer                                    |
| H401                | Toxic to aquatic life  |
| H402                | Harmful to aquatic life  |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

SDS US (GHS HazCom)