



## **SAFETY DATA SHEET (SDS)**

### **MAXI-CURE**

#### **1. IDENTIFICATION**

Product Name: Maxi-Cure  
Other Name or Code: BSI112  
Use: Cyanoacrylate glue  
Supplier Name: DenPlus Inc.  
Address: 333-M Chemin du Tremblay  
Boucherville, QC, Canada, J4B 7M1  
Phone Number for Information: 450.641.1330  
Emergency Phone Number: 613.996.6666  
Anti-Poison Center of Quebec 1.800.463.5060

#### **2. HAZARDS IDENTIFICATION**

##### **2.1 Classification**

|                                                               |      |                                  |
|---------------------------------------------------------------|------|----------------------------------|
| Flammable liquid - Category 4                                 | H227 | Combustible liquid               |
| Skin irritation – Category 2                                  | H315 | Causes skin irritation           |
| Eye irritation - Category 2A                                  | H319 | Cause serious eye irritation     |
| Specific target organ toxicity – single exposure – Category 3 |      |                                  |
| Respiratory system                                            | H335 | May cause respiratory irritation |

##### **2.2 Label elements**



Signal word: Warning – BOND SKIN IN SECONDS

Hazard statements: H227 Combustible liquid  
H315 Causes skin irritation  
H319 Cause serious eye irritation  
H335 May cause respiratory irritation

Precautionary statements: P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing dust / fume / gas / mist / vapors / spray.  
P264 Wash thoroughly after handling.  
P271 Use only outdoors or in well-ventilated area.

|                |                                                                                                                                  |
|----------------|----------------------------------------------------------------------------------------------------------------------------------|
| P280           | Wear protective gloves/protective clothing/eye protection/face protection.                                                       |
| P302+P352      | IF ON SKIN: Wash with plenty of water.                                                                                           |
| P304+P340+P312 | IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER / doctor if you feel unwell.     |
| P305+P351+P338 | IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. |
| P332+P313      | If skin irritation occurs: get medical advice/attention.                                                                         |
| P337+P313      | If eye irritation persists: get medical advice/attention                                                                         |
| P362+P364      | Take off contaminated clothing and wash it before reuse.                                                                         |
| P370+P378      | In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.                                             |
| P403+P233      | Store in well-ventilated place. Keep container tightly closed.                                                                   |
| P405           | Stored locked up.                                                                                                                |
| P501           | Dispose of contents/container to hazardous waste in accordance with local, state or national legislation.                        |

### 3. INFORMATION ON INGREDIENTS

| Hazardous ingredients       | CAS       | Concentration range |
|-----------------------------|-----------|---------------------|
| Ethyl 2-cyanoacrylate       | 7085-85-0 | 89 to 93 %          |
| Methyl methacrylate polymer | 9011-14-7 | 7 to 11 %           |

### 4. FIRST-AID MEASURES

#### 4.1 Description of first aid measures

|              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|--------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Inhalation   | IF INHALED : Move to fresh air. If not breathing, give artificial respiration. Get medical attention.                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| Skin Contact | IF ON SKIN: Do not pull bonded skin apart. Soak in warm soapy water. Gently peel apart using a blunt instrument. If skin burned due to the rapid generation of heat by a large drop, seek medical attention. If lips bonded, apply warm water to the lips and encourage wetting and pressure from saliva in mouth. Peel or roll lips apart. Do not pull lips apart with direct opposing force.                                                                                                                                                             |
| Eye Contact  | IF IN EYES: Immediately flush with plenty of water for at least 15 minutes. Get medical attention. If eyelids are bonded closed, release eyelashes with warm water by covering with a wet pad. Do not force open eye. Cyanoacrylate will bond to eye protein and will cause a lachrymatory effect which will help to debond the adhesive. Keep eye covered until debonding is complete, usually within 1-3 days. Medical attention should be sought in case solid particles of polymerized cyanoacrylate trapped behind the eyelid caused abrasive damage. |

Ingestion            IF SWALLOWED: Ensure breathing passages are not obstructed. The product will polymerize rapidly and bond to the mouth making it almost impossible to swallow. Saliva will separate any solidified product in several hours. Prevent the patient from swallowing any separated mass. Rinse mouth with water. DO NOT induce vomiting. Consult a physician.

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

May cause an allergic skin reaction.

May cause an eye irritation.

#### **4.3 Indication of any immediate medical attention and special treatment needed**

Surgery is not necessary to separate accidentally bonded tissues. Experience has shown that bonded tissues are best treated by passive, non-surgical first aid. If rapid curing has caused thermal burns they should be treated symptomatically after adhesive is removed.

### **5. FIREFIGHTING MEASURES**

#### **5.1 Extinguishing media**

In case of fire, use water spray, carbon dioxide (CO<sub>2</sub>), spray foam, dry powder.

#### **5.2 Special hazards arising from the substance or mixture**

Carbon oxides and nitrogen oxides.

#### **5.3 Advice for firefighters**

Wear self-contained breathing apparatus for firefighting is necessary.

#### **5.4 Supplementary Information**

Use water spray to cool unopened containers.

### **6. ACCIDENTAL RELEASE MEASURES**

#### **6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all source of ignition. Avoid contact with skin and eyes.

#### **6.2 Environmental precautions**

Avoid release to the environment and do not let product enter drains.

#### **6.3 Methods and material for containment and cleaning up**

Do not use cloths for mopping up. Flood with water to complete polymerization and scrape off the floor. Cured material can be disposed of as non-hazardous waste. Collect in containers for disposal in accordance with local regulations.

#### **6.4 Reference to other sections**

See sections: 7, 8 and 13

## 7. HANDLING AND STORAGE

### 7.1 Precautions for safe handling

Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist.

Do not eat, drink or smoke at the work place.

Wash thoroughly after handling.

Keep container tightly closed.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep containers in a clean, cool and dry area, well ventilated area.

Storage temperature (°C): 2 – 10 °C.

Product is sensitive to light and moisture.

Incompatible materials: None known.

### 7.3 Specific end use(s)

None

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

### 8.1 Control parameters

| Substance             | CAS       | Value | Control parameters |
|-----------------------|-----------|-------|--------------------|
| Ethyl 2-cyanoacrylate | 7085-85-0 | TWA   | 0,2 ppm            |
| Methyl methacrylate   |           |       | none               |

### 8.2 Exposure controls

Appropriate engineering controls

Do not eat, drink or smoke at the work place. Provide adequate ventilation, including appropriate local extraction, to ensure that the occupational exposure limit is not exceeded. Consideration should be given to the work procedures involved and the potential extent of exposure as they may determine whether a higher level of protection is required. The following information is given as general guidance.

|                        |                                                                                                                                                                 |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye/face protection    | Wear eye/face protection. Safety spectacles/goggles/full face shield.                                                                                           |
| Skin protection        | Use of nitrile gloves is recommended. Use proper glove removal technique to avoid skin contact with this product. Dispose gloves after use. Wash and dry hands. |
| Respiratory protection | Not required normally. Use NIOSH approved respirator if there is potential to exceed exposure limit(s).                                                         |

## 9. PHYSICAL AND CHEMICAL PROPERTIES

|                                         |                                     |
|-----------------------------------------|-------------------------------------|
| Appearance                              | Liquid, colorless, transparent      |
| Odor                                    | Pungent                             |
| Odor threshold                          | 1 - 2 ppm                           |
| pH (Value)                              | No data available                   |
| Melting point (°C)                      | -31                                 |
| Boiling Point (°C)                      | 214                                 |
| Flash Point (°C)                        | 85                                  |
| Flammability (solid, gas)               | Not applicable                      |
| Flammable Limits                        | Not applicable                      |
| Vapor pressure (Pascal)                 | < 21                                |
| Vapor Density (Air=1)                   | Not applicable                      |
| Solubility (Water)                      | 0.00002 g/l – insoluble, polymerize |
| Solubility (Other)                      | Not applicable                      |
| Partition Coefficient (n-Octanol/water) | Not applicable                      |
| Ignition Temperature (°C)               | 485                                 |
| Oxidizing properties                    | Not applicable                      |
| Density (g/ml)                          | 1.040                               |

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

No available

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Rapid exothermic polymerization will occur in the presence of water, amines, alkalis, alcohols.

### 10.4 Conditions to avoid

Heat, flames and sparks

### 10.5 Incompatible materials

Reducing agents, water, amines, alcohols, alkali metals, oxidizing agents.

### 10.6 Hazardous decomposition products

Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### Ethyl 2-cyanoacrylate

Acute toxicity

Inhalation

May cause respiratory tract irritation. Exposure to vapors above the established exposure limit results in respiratory irritation,

|                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation     | which may lead to difficulty in breathing and tightness in the chest.<br>May cause skin irritation. Bonds skin in seconds. May cause skin irritation. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates have been reported to cause allergic reaction but due to rapid polymerization at the skin surface, an allergic response is rare. Cyanoacrylates generate heat on solidification. In rare circumstances a large drop will burn the skin. Cured adhesive does not present a health hazard even if bonded to the skin. |
| Serious eye damage/irritation | Irritating to eyes. Causes excessive tearing. Eyelids may bond.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Ingestion                     | Not expected to be harmful by ingestion. Rapidly polymerizes (solidifies) and bonds in mouth. It is almost impossible to swallow.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Germ cell mutagenicity        | Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| Carcinogenicity               | Negative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

### **Methyl methacrylate**

Irritating. No evidence of carcinogenicity

## **12. ECOLOGICAL INFORMATION**

### **12.1 Toxicity**

Not available

### **12.2 Persistence and degradability**

This product has not been tested.

### **12.3 Bioaccumulative potential**

This product has not been tested.

### **12.4 Mobility in soil**

This product has not been tested.

### **12.5 Results of PBT and vPvB assessment**

This product has not been tested.

### **12.6 Other adverse effects**

None known.

## **13. DISPOSAL CONSIDERATIONS**

The waste is considered to be non hazardous. Dispose in accordance with local regulations.

### **13.1 Waste treatment methods**

May be disposed by landfill in accordance with local regulations.

## **14. TRANSPORTATION CONSIDERATIONS**

Not classified as Dangerous for Transport.

### **14.1 UN number**

Not applicable.

### **14.2 UN Proper Shipping Name**

Not applicable.

### **14.3 Transport hazard class(es)**

Not applicable.

### **14.4 Packing group**

Not applicable.

### **14.5 Environmental hazards**

Not applicable.

### **14.6 Special precautions for user**

Not applicable.

### **14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**

Not applicable.

## **15. REGULATORY INFORMATION**

WHMIS 2015

Canadian Hazardous Products Regulations (SORS2015-17)

Canadian Hazardous Products Act (R.S.C., 1985, c. H-3)

Hazardous Products Information Regulation (Quebec S-2.1, r. 8.1)

## **16. OTHER INFORMATION**

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