



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 (CO₂), 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,

	which may lead to difficulty in breathing and tightness in the chest.
Skin corrosion/irritation	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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