

GU-PLAST SEKUNDENKLEBER

MSDS Revision Date (dd/mm/yyyy): 01/03/2010

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MATERIAL SAFETY DATA SHEET

SECTION 1 - IDENTIFICATION

Product identifier : **GU-PLAST SEKUNDENKLEBER**

Product Code(s) : 9-38969-00-0-0 (in unit)
9-C9019-20-0-0 (box of 20)

Product Use : Cyanoacrylate adhesive

Chemical Family : Mixture.

Supplier's name and address:
Ferco Ferrures de bâtiment
2000, rue Berlier
Laval, QC, Canada
H7L 4S4

Information Telephone # : (514) 973-1437

24 Hr. Emergency Tel # : Not available.

Manufacturer's name and address:
Refer to Supplier

SECTION 2 - HAZARDS IDENTIFICATION

Classification : WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). WHMIS classification:
Class B3 (Combustible Liquids);
Class D2B (Materials Causing Other Toxic Effects, Toxic Material).

OSHA: This material is classified as hazardous under OSHA regulations (29CFR 1910.1200). Hazardous classification:
Combustible liquid;
Acute Health Hazard;
Chronic Health Hazard.

Emergency Overview : Clear, colourless liquid. Characteristic odour.
WARNING!
Combustible liquid and vapor. BONDS SKIN WITH SKIN INSTANTLY. May be harmful if inhaled.
IRRITANT. May cause respiratory irritation. May cause eye irritation.

POTENTIAL HEALTH EFFECTS:

Signs and symptoms of short-term (acute) exposure

Inhalation : May cause irritation to the nose, throat and upper respiratory tract. May cause sore throat, coughing, and tightness of chest.

Skin : May cause skin irritation. Bonds skin instantly. Cyanoacrylate adhesives may give off enough heat during curing to cause burns to skin, in rare cases.

Eyes : May cause mild to moderate irritation. Symptoms will include pain, redness and tearing. Bonds skin with skin instantly - eyelid bonding.

Ingestion : Harmful effects are not expected under normal usage. Material may polymerise in the mouth, making it difficult to swallow. If material is ingested, may cause irritation to mucous membranes.

Effects of long-term (chronic) exposure

: Prolonged or repeated contact may cause drying, cracking and defatting of the skin.

Carcinogenic status : See TOXICOLOGICAL INFORMATION, Section 11.

Additional health hazards : Possible sensitizer. See TOXICOLOGICAL INFORMATION, Section 11.

Potential environmental effects : See ECOLOGICAL INFORMATION, Section 12.

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SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients	CAS #	Wt.%
Ethyl-2-cyanoacrylate	7085-85-0	60.00 - 100.00

SECTION 4 - FIRST AID MEASURES

- Inhalation** : Remove exposed person to fresh air immediately. Get medical attention.
- Skin contact** : Bonds skin instantly. Do not force apart. Soak affected areas in warm, soapy water then gently peel bonded surfaces apart. When symptoms persist or in all cases of doubt seek medical advice.
- Eye contact** : Bonds skin instantly. If eye is bonded closed, do not force apart. Cover affected eye(s) with a wet pad until debonding is complete, usually within 1 to 3 days. Cyanoacrylate adhesives will bond to proteins in the eye and will cause periods of weeping, which will help to debond the adhesive. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Ingestion** : Never give anything by mouth to an unconscious person. Do not induce vomiting without medical advice. Product may polymerise in the mouth, making it difficult to swallow. Consult a physician.
- Notes For Physician** : Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Fire hazards/conditions of flammability

- : Combustible liquid and vapor. This material may be ignited by heat, sparks and direct flame. Closed containers may rupture if exposed to excess heat or flame due to a build-up of internal pressure. Vapours are heavier than air and collect in confined and low-lying areas. Vapours may cause flash fire. Contact with water may cause polymerization of the product. May polymerize when heated.

Flammability classification (OSHA 29 CFR 1910.1200)

- : Combustible Liquid Class III A.

Oxidizing properties

- : None known.

Explosion data: Sensitivity to mechanical impact / static discharge

- : Not expected to be sensitive to mechanical impact or static discharge.

Suitable extinguishing media

- : Dry chemical, carbon dioxide and foam. Do not use water if possible.

Special fire-fighting procedures/equipment

- : During a fire, irritating and toxic gases may be generated by thermal decomposition or combustion. Do not enter fire area without proper protection. Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece operated in positive pressure mode. Move containers from fire area if safe to do so. Water spray may ONLY be useful in cooling equipment exposed to heat and flame.

Hazardous combustion products

- : Carbon oxides, nitrogen oxides, cyanides and other irritating fumes and smoke.

NFPA Rating

- | | | | |
|----------------------------------------------------------------------------------------|------------|--------------|-------------|
| 0 - Minimal | 1 - Slight | 2 - Moderate | 3 - Serious |
| : <i>Health: 2 Flammability: 2 Instability: 1 Special Hazards: None</i> | | | |

SECTION 6 - ACCIDENTAL RELEASE MEASURES

Personal precautions

- : Restrict access to area until completion of clean-up. Ensure clean-up is conducted by trained personnel only. All persons dealing with clean-up should wear the appropriate protective equipment including self-contained breathing apparatus. Refer to Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION, for additional information on acceptable personal protective equipment.

Environmental precautions

- : Do not allow material to contaminate ground water system. Dispose of as special waste in compliance with local and national regulations.

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Spill response/cleanup : Ventilate area of release. Eliminate all ignition sources. Remove combustible materials. Stop the spill at source if it is safe to do so. Use only non-sparking tools and equipment in the clean-up process. Contain and absorb spilled liquid with non-combustible, inert absorbent material (e.g. sand), then place absorbent material into a container for later disposal (see Section 13). Contaminated absorbent material may pose the same hazards as the spilled product. Notify the appropriate authorities as required.

Prohibited materials : None known or reported by the manufacturer.

Special spill response procedures

- : If a spill/release in excess of the EPA reportable quantity is made into the environment, immediately notify the national response center in the United States (phone: 1-800-424-8002).
US CERCLA Reportable quantity (RQ): None reported.

SECTION 7 - HANDLING AND STORAGE

Safe Handling procedures : Before handling, it is very important that engineering controls are operating, and that protective equipment requirements and personal hygiene measures are being followed. People working with this chemical should be properly trained regarding its hazards and its safe use. Inspect containers for leaks before handling. Label containers appropriately. Ensure adequate ventilation. Avoid breathing vapour or mist. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks, and open flames. Protect from moisture. Keep away from amines and other incompatible materials. Keep containers closed when not in use. Empty containers retain residue (liquid and/or vapour) and can be dangerous.

Storage requirements : Store in a cool, dry, well ventilated area, away from heat and ignition sources. Store out of direct sunlight. Do not store near any incompatible materials (see Section 10). Inspect all incoming containers to make sure they are properly labelled and not damaged. Keep container tightly closed. Storage area should be clearly identified, clear of obstruction and accessible only to trained and authorized personnel. Have appropriate fire extinguishers and spill clean-up equipment in or near storage area.
Average Shelf Life: 12 months (Storage temperature: 6°C / 43°F).
Average Shelf Life: 6 months (Storage temperature: 15 - 25°C / 59 - 77°F).

Incompatible materials : Avoid WATER, ALCOHOLS, AMINES, STRONG BASES (e.g. Sodium hydroxide), etc.

Special packaging materials : Always keep in containers made of the same materials as the supply container.

SECTION 8 - EXPOSURE CONTROLS AND PERSONAL PROTECTION

<u>Exposure Limits</u>				
<u>Ingredients</u>	<u>ACGIH TLV</u>		<u>OSHA PEL</u>	
	<u>TWA</u>	<u>STEL</u>	<u>PEL</u>	<u>STEL</u>
Ethyl-2-cyanoacrylate	0.2 ppm	N/Av	N/Av	N/Av

Ventilation and engineering measures

- : Local exhaust ventilation is preferred to prevent contaminant dispersion into work area.

Respiratory protection : Respiratory protection is required if the concentrations exceed the TLV. NIOSH-approved respirators are recommended.

Skin protection : Wear chemically protective gloves (impervious), boots, aprons, and gauntlets to prevent prolonged or repeated skin contact.

Eye / face protection : If splashing is anticipated, splash goggles and a faceshield are recommended. A full face shield may also be necessary.

Other protective equipment : An eyewash station and safety shower should be made available in the immediate working area.

General hygiene considerations

- : Avoid contact with skin, eyes and clothing. Avoid breathing vapour or mist. Do not eat, drink, smoke or use cosmetics while working with this product. Handle in accordance with good industrial hygiene and safety practice. Remove and wash contaminated clothing before re-use. Separate contaminated work clothes from street clothes.

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SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Physical state	: Liquid	Appearance	: Clear colourless liquid.
Odour	: Characteristic odour.	Odour threshold	: N/Av
pH	: N/Av		
Boiling point	: > 200°C (392°F)	Specific gravity	: 1.05
Melting/Freezing point	: N/Av	Coefficient of water/oil distribution	: N/Av
Vapour pressure (mmHg @ 20° C / 68° F)	: N/Av	Solubility in water	: Not miscible.
Vapour density (Air = 1)	: N/Av	Evaporation rate (n-Butyl acetate = 1)	: N/Av
Volatile organic Compounds (VOC's)	: N/Av	Volatiles (% by weight)	: N/Av
Flash point	: 87°C (188.6°F)		
Flash point Method	: closed cup	Auto-ignition temperature	: N/Av
Lower flammable limit (% by vol.)	: N/Av	Upper flammable limit (% by vol.)	: N/Av
Flame Projection Length	: N/Av	Flashback observed	: N/Av

Section 10: Stability And Reactivity

Stability and reactivity	: Stable under the recommended storage and handling conditions prescribed. May polymerize when heated or on contact with incompatible materials. Contact with water may cause polymerization of the product.
Hazardous polymerization	: Hazardous polymerisation does not occur.
Conditions to avoid	: Avoid heat, open flames, sparks, static electricity and electrical equipment. Keep away from direct sunlight.
Materials To Avoid And Incompatibility	: See Section 7 (Handling and Storage) for further details.
Hazardous decomposition products	: May release small amounts of Formaldehyde during polymerisation (curing). Refer to Section 5 for additional 'Hazardous combustion products'.

SECTION 11 - TOXICOLOGICAL INFORMATION

Target organs	: Eyes, skin, respiratory system and digestive system.
Routes of exposure	: <i>Inhalation:</i> YES <i>Skin Absorption:</i> NO <i>Skin & Eyes:</i> YES <i>Ingestion:</i> YES
Toxicological data	: There is no available data for the product itself, only for the ingredients. See below for individual ingredient acute toxicity data.

<u>Ingredients</u>	<u>LC₅₀(4hr)</u>	<u>LD₅₀</u>	
	<u>inh, rat</u>	<u>(Oral, rat)</u>	<u>(Rabbit, dermal)</u>
Ethyl-2-cyanoacrylate	N/Av	> 5 mL/kg	N/Av

Carcinogenic status	: No components are listed as carcinogens by ACGIH, IARC, OSHA or NTP.
Reproductive effects	: None known.
Teratogenicity	: None known.
Mutagenicity	: None known.
Epidemiology	: Not available.
Sensitization to material	: This product contains cyanoacrylates. Cyanoacrylates are known to cause skin sensitization with allergic contact dermatitis symptoms such as swelling, rash, and exzema. However, some studies have shown that allergic skin reactions are most impossible due to the speed at which the cyanoacrylate polymerizes after contact with the skin. Cyanoacrylates are known to cause respiratory sensitization with asthmatic symptoms such as wheezing and chest tightness. However, data on respiratory sensitisation reactions for this particular material are inconsistent or incomplete.

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- Synergistic materials** : None known.
Irritancy : Mild skin irritant. Mild to moderate eye irritant.
other important hazards : None known or reported by the manufacturer.
Conditions aggravated by overexposure : Pre-existing skin and respiratory disorders.

SECTION 12 - ECOLOGICAL INFORMATION

- Ecotoxicity** : No data is available on the product itself. The product should not be allowed to enter drains or water courses, or be deposited where it can affect ground or surface waters.
Mobility : No data is available on the product itself.
Persistence : No data is available on the product itself.
Bioaccumulation potential : No data is available on the product itself.
Other Adverse Environmental effects : No data is available on the product itself.

SECTION 13 - DISPOSAL CONSIDERATIONS

- Handling for Disposal** : Store material for disposal as indicated in Handling and Storage (Section 7). Empty containers retain residue (liquid and/or vapour) and can be dangerous.
Methods of Disposal : Dispose in accordance with all applicable federal, state, provincial and local regulations. Contact your local, state, provincial or federal environmental agency for specific rules.
RCRA : If this product, as supplied, becomes a waste in the United States, it may meet the criteria of a hazardous waste as defined under RCRA, Title 40 CFR 261. It is the responsibility of the waste generator to determine the proper waste identification and disposal method. For disposal of unused or waste material, check with local, state and federal environmental agencies.

SECTION 14: TRANSPORT INFORMATION

Regulatory Information	UN Number	Shipping Name	Class	Packing Group	Label
TDG	None	Not regulated.	Not regulated	none	
TDG Additional information	None.				
49CFR/DOT	None	Not regulated.	Not regulated	none	
49CFR/DOT Additional information	None.				

SECTION 15 - REGULATORY INFORMATION

US Federal Information:

TSCA: All listed ingredients appear on the Toxic Substances Control Act (TSCA) inventory.

US CERCLA Reportable quantity (RQ): None reported.

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SARA TITLE III: Sec. 302, Extremely Hazardous Substances, 40 CFR 355: No Extremely Hazardous Substances are present in this material.

SARA TITLE III: Sec. 311 and 312, MSDS Requirements, 40 CFR 370 Hazard Classes: Fire Hazard; Immediate (Acute) health hazard; Chronic Health Hazard. Under SARA Sections 311 and 312, the EPA has established threshold quantities for the reporting of hazardous chemicals. The current thresholds are 500 pounds for the threshold planning quantity (TPQ), whichever is lower, for extremely hazardous substances and 10,000 pounds for all other hazardous chemicals.

SARA TITLE III: Sec. 313, Toxic Chemicals Notification, 40 CFR 372: This material is not subject to SARA notification requirements, since it does not contain any Toxic Chemical constituents above de minimus concentrations.

US State Right to Know Laws:

California Proposition 65: To the best of our knowledge, this product does not contain any chemicals known to the State of California to cause cancer or reproductive harm.

Other U.S. State "Right to Know" Lists: The following chemicals are specifically listed by individual States: Ethyl 2-cyanoacrylate (NJ).

International Information:

WHMIS information: This product is a WHMIS Controlled Product. It meets one or more of the criteria for a controlled product provided in Part IV of the Canadian Controlled Products Regulations (CPR). Refer to Section 2 for a WHMIS Classification for this product.

Canadian Environmental Protection Act (CEPA): Mixture. All components of this product are on the Canadian DSL list.

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and this MSDS contains all the information required by the CPR.

SECTION 16 - OTHER INFORMATION

HMIS Rating	:	* - Chronic hazard	0 - Minimal	1 - Slight	2 - Moderate	3 - Serious
		<i>Health: *2</i>		<i>Flammability: 2</i>		<i>Reactivity: 1</i>

Legend

- : ACGIH: American Conference of Governmental Industrial Hygienists
- CAS: Chemical Abstract Services
- CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act of 1980
- CFR: Code of Federal Regulations
- CNS: Central Nervous System
- DOT: Department of Transportation
- DSL: Domestic Substances List
- HMIS: Hazardous Materials Identification System
- HSDB: Hazardous Substances Data Bank
- IARC: International Agency for Research on Cancer
- Inh: Inhalation
- LC: Lethal Concentration
- LD: Lethal Dose
- N/Ap: Not Applicable
- N/Av: Not Available
- NFPA: National Fire Protection Association
- NIOSH: National Institute of Occupational Safety and Health
- NJ: New Jersey
- NTP: National Toxicology Program
- OSHA: Occupational Safety and Health Administration
- PEL: Permissible exposure limit
- RCRA: Resource Conservation and Recovery Act
- RTECS: Registry of Toxic Effects of Chemical Substances
- SARA: Superfund Amendments and Reauthorization Act
- STEL: Short Term Exposure Limit
- TDG: Canadian Transportation of Dangerous Goods Act & Regulations
- TLV: Threshold Limit Values
- TSCA: Toxic Substance Control Act
- TWA: Time Weighted Average

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References

- WHMIS: Workplace Hazardous Materials Identification System
- 1. ACGIH, Threshold Limit Values and Biological Exposure Indices for 2009.
 - 2. International Agency for Research on Cancer Monographs, searched 2010.
 - 3. Canadian Centre for Occupational Health and Safety, CCIInfoWeb databases, 2010 (Chempendium, HSDB, RTECs).
 - 4. Material Safety Data Sheet from manufacturer.
 - 5. US EPA Title III List of Lists October 2006 version.
 - 6. California Proposition 65 List February 5, 2010 version.

<p>Prepared for: Ferco Ferrures de bâtiment 2000, Rue Berlier Laval, Qué (Canada), H7L 4S4 Please direct all inquiries to Ferco Ferrures de bâtiment.</p>	
<p>Prepared by: ICC The Compliance Center Inc. http://www.thecompliancecenter.com</p>	

DISCLAIMER OF LIABILITY

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: 2

Revision Information

- : Sections 2 and 3, switched.
- (M)SDS sections updated:
 - 2. HAZARDS IDENTIFICATION;
 - 3. COMPOSITION/INFORMATION ON INGREDIENTS;
 - 5. FIRE-FIGHTING MEASURES;
 - 6. Accidental release measures;
 - 8. EXPOSURE CONTROLS / PERSONAL PROTECTION;
 - 9. PHYSICAL AND CHEMICAL PROPERTIES;
 - 11. TOXICOLOGICAL INFORMATION;
 - 12. ECOLOGICAL INFORMATION;
 - 14. TRANSPORT INFORMATION;
 - 15. REGULATORY INFORMATION.

END OF DOCUMENT