

# SAFETY DATA SHEET

According to Work Health and Safety Regulations 2011 and National Model Code of Practice for the preparation of Safety Data Sheets for Hazardous Chemicals

Version 1.0

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SDS Record Number: CSSS-TCO-010-141547

## AL-FIX GEL

### 1. Identification of the material and supplier

**Material name:** AL-FIX GEL

**Other Names:** -

**Recommended use:** Adhesive. Sealing compound.

**Manufacturer:**

**Supplier(Manufacturer):** Novatech International N.V.  
\*Novatio is a registered trademark of Novatech International N.V.

**Address:** Industrielaan 5B  
B-2250 Olen

**Contact person(E-mail):** info@novatio.be

**Telephone:** +32 14 25 76 40

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**Emergency number:** +32 14 58 45 45

**Importer**

**Company name:** Olmurtech

**Address:** P.O. BOX 5939  
Brendale DC, QLD. 4500  
Australia  
[www.olmurtech.com.au](http://www.olmurtech.com.au)

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**Telephone:** +61 0 426 177 310

**Fax:** -

**Emergency number:** Poisons Information Centre ☎ 13 11 26

### 2. Hazards identification

**GHS classification:**

<b>Physical hazards:</b>	Flammable liquids	Category 4
<b>Health hazards:</b>	Skin corrosion/irritation	Category 2
	Serious eye damage/irritation	Category 2A
	Specific target organ toxicity (single exposure)	Category 3
<b>Environmental hazards:</b>	Not classified	

**GHS label elements:**

**Hazard Pictograms :**



**Signal word:** Warning

<b>Hazard statement:</b>	Combustible liquid Causes skin irritation Causes serious eye irritation May cause respiratory irritation
<b>Precautionary statement:</b>	
<b>Prevention:</b>	Keep away from flames and hot surfaces. – No smoking. Avoid breathing dust/fume/gas/mist/vapours/spray. Wash hands thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/eye protection/face protection.
<b>Response:</b>	IF ON SKIN: Wash with plenty of soap and water. IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician if you feel unwell. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. Take off contaminated clothing and wash before reuse. In case of fire: Use Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher for extinction.
<b>Storage:</b>	Store in a well-ventilated place. Keep container tightly closed. Keep cool. Store locked up.
<b>Disposal:</b>	Dispose of contents/container in accordance with local regulation.
<b>Specific hazards:</b>	Not applicable.

### 3. Composition/information on ingredients

Components	CAS No.	Percent
ethyl 2-cyanoacrylate	7085-85-0	80%<C<100%
1,4-dihydroxybenzene	123-31-9	0.01%<C<0.099%

### 4. First aid measures

<b>Inhalation:</b>	Remove victim into fresh air. In case of respiratory problems, consult a doctor/medical service.
<b>Skin:</b>	Do not pull surfaces apart with a direct opposing action. Immerse the bonded surfaces in warm, soapy water. Peel or roll surfaces apart with a blunt edge, e.g. spatula. Consult a doctor/medical service.
<b>Eye:</b>	Do not try to open the eyes by manipulation. Wash thoroughly with warm water. Apply a moist gauze patch. Take victim to an ophthalmologist.
<b>Ingestion:</b>	Do not try to pull the lips with a direct opposing action. Apply lots of warm water and saliva. Immediately consult a doctor/medical service.
<b>Notes to physician:</b>	Treat symptomatically.

### 5. Fire-fighting measures

<b>Suitable extinguishing media:</b>	Small fire: Quick-acting ABC powder extinguisher, Quick-acting BC powder extinguisher, Quick-acting class B foam extinguisher, Quick-acting CO2 extinguisher. Major fire: Class B foam (not alcohol-resistant).
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<b>Extinguishing media which must not be used for safety reasons:</b>	Small fire: Water (quick-acting extinguisher, reel); risk of puddle expansion. Major fire: Water; risk of puddle expansion.
<b>Specific hazards arising from the chemical:</b>	On burning: release of toxic and corrosive gases/vapors (nitrous vapours, carbon monoxide - carbon dioxide). Polymerizes on exposure to water (moisture) and on exposure to temperature rise: pressure rise and possible bursting of container.
<b>Fire Fighting:</b>	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.
<b>HAZCHEM code</b>	None.

## 6. Accidental release measures

<b>Personal precautions:</b>	Stop engines and no smoking. No naked flames or sparks. Spark- and explosion proof appliances and lighting equipment.
<b>Containment procedures:</b>	Contain released product.
<b>Methods for cleaning up:</b>	Take up liquid spill into inert absorbent material. Scoop absorbed substance into closing containers. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling.

## 7. Handling and storage

<b>Precautions for safe handling:</b>	Keep away from naked flames/heat. Gas/vapor heavier than air at 20°C. Observe normal hygiene standards. Remove contaminated clothing immediately. Avoid contact of substance with water. Keep container tightly closed.
<b>Storage:</b>	Store in a cool area. Store in a dry area. Keep out of direct sunlight. Keep container in a well-ventilated place. Keep only in the original container. Meet the legal requirements. Keep away from: Heat sources, oxidizing agents, (strong) acids, water/moisture. Suitable packaging material: Polyethylene.

## 8. Exposure controls/personal protection

### Control parameters

### Occupational exposure limits

#### Australia. National Workplace OELs (Workplace Exposure Standards for Airborne Contaminants, Appendix A)

Components	Type	Value
1,4-dihydroxybenzene (CAS 123-31-9)	TWA	2 mg/m <sup>3</sup>

#### Australia. OELs. (Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment)

Components	Type	Value
1,4-dihydroxybenzene (CAS 123-31-9)	TWA	2 mg/m <sup>3</sup>

#### US. ACGIH Threshold Limit Values

Components	Type	Value
Ethyl 2-cyanoacrylate (CAS 7085-85-0)	STEL	1 ppm
	TWA	0.2 ppm
1,4-dihydroxybenzene (CAS 123-31-9)	TWA	1 mg/m <sup>3</sup>

#### UK. EH40 Workplace Exposure Limits (WELs)

Components	Type	Value
Ethyl 2-cyanoacrylate (CAS 7085-85-0)	STEL	1.5 mg/m <sup>3</sup> 0.3 ppm
	TWA	0.5 mg/m <sup>3</sup>

**Biological limit values:** No biological exposure limits noted for the ingredient(s).

**Appropriate engineering controls:** Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.

**Personal protective equipment:**

<b>Eye/face protection:</b>	Safety glasses (EN 166).
<b>Skin protection:</b>	Protective clothing (EN 14605 or EN 13034).
<b>Respiratory protection:</b>	Full face mask with filter type A at conc. in air > exposure limit.
<b>Hand protection:</b>	Protective gloves against chemicals (EN 374).

## 9. Physical and chemical properties

**Appearance:**

<b>Physical state:</b>	Liquid
<b>Form:</b>	Liquid
<b>Color:</b>	Colorless
<b>Odor:</b>	Characteristic odor
<b>Odour threshold:</b>	Not available
<b>PH:</b>	Not available
<b>Melting point/Freezing point:</b>	Not available
<b>Initial boiling point and boiling range:</b>	> 149 °C
<b>Flash point:</b>	80 °C - 93.4 °C (Closed cup)
<b>Evaporation rate:</b>	Not available
<b>Flammability (solid, gas) :</b>	Not available
<b>Upper/lower flammability or explosive limits:</b>	Not available
<b>Vapor pressure:</b>	0.27 hPa < 700 hPa (50 °C)
<b>Vapor density:</b>	Not available
<b>Relative density:</b>	1.05
<b>Solubility (H<sub>2</sub>O) :</b>	Water; reacts
<b>Partition coefficient (n-octanol/water) :</b>	Not available
<b>Auto-ignition temperature:</b>	Not available
<b>Decomposition temperature:</b>	Not available
<b>Dynamic viscosity:</b>	100000 mPa.s (25 °C)
<b>Kinematic viscosity:</b>	Not available
<b>Organic solvents:</b>	Not available
<b>Water:</b>	Not available
<b>VOC (EC) :</b>	Not available
<b>Solids contents:</b>	Not available
<b>Explosive properties:</b>	No chemical group associated with explosive properties
<b>Oxidising properties:</b>	No chemical group associated with oxidising properties
<b>Molecular Formula:</b>	Not available
<b>Molecular Weight:</b>	Not available
<b>Absolute density:</b>	1050 kg/m <sup>3</sup>

## 10. Stability and reactivity

<b>Reactivity:</b>	Temperature above flashpoint: higher fire/explosion hazard.
<b>Chemical stability:</b>	Unstable on exposure to moisture. Unstable on exposure to air.
<b>Possibility of hazardous reactions:</b>	Polymerizes on exposure to water (moisture) and on exposure to temperature rise: pressure rise and possible bursting of container. Reacts with many compounds e.g.: (strong) oxidizers and (strong) acids.
<b>Conditions to avoid:</b>	Incompatible materials. Keep away from naked flames/heat.

**Incompatible materials:** Oxidizing agents, (strong) acids, water/moisture.  
**Hazardous decomposition products:** On burning: release of toxic and corrosive gases/vapors (nitrous vapors, carbon monoxide - carbon dioxide).

## 11. Toxicological information

### Toxicological data:

#### Acute toxicity:

Ethyl 2-cyanoacrylate (CAS 7085-85-0)

LD50(Oral, Rat): > 5000 mg/kg bw male

LD50(Dermal, Rabbit): > 2000 mg/kg bw male

LC50(Inhalation, Rat): Not available

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

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

**Respiratory or skin sensitization:** No data available.

**Germ cell mutagenicity:** No data available.

**Carcinogenicity:** No data available.

**Reproductive toxicity:** No data available.

**STOT- single exposure:** May cause respiratory irritation.

**STOT-repeated exposure:** No data available.

**Aspiration hazard:** No data available.

**Other information** This product has no known adverse effect on human health.

## 12. Ecological information

### Toxicity:

Acute toxicity		Time	Species	Method	Evaluation	Remarks
LC50	N/A	96h	Fish	OECD 203	N/A	N/A
EC50	N/A	48h	Daphnia	OECD 202	N/A	N/A
EC50	N/A	72h	Algae	OECD 201	N/A	N/A

**Persistence and degradability:** Does not contain any not readily biodegradable component(s).

**Bioaccumulative potential:** Does not contain bioaccumulative component(s).

**Mobility in soil:** Contains component(s) with potential for mobility in the soil.

**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 methods:** Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

**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:** Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.

## 14. Transport information

ADG

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.

#### IATA

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.

#### IMDG

<b>UN number</b>	Not regulated
<b>Proper shipping name</b>	Not regulated
<b>Hazard class</b>	Not regulated
<b>Packing group</b>	Not regulated
<b>Environmental hazards</b>	
<b>Marine pollutant</b>	No
<b>Special precautions</b>	Read safety instructions, SDS and emergency procedures before handling.

**Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code:** Not regulated

## 15. Regulatory information

### Safety, health and environmental regulations

#### National regulations

**Australia Medicines & Poisons Appendix A/B/D/G/H/I/J/K / Australia Medicines & Poisons Schedule 10/3/5/7/8/9**  
Poisons schedule number not allocated.

**Australia Medicines & Poisons Appendix E/F / Australia Medicines & Poisons Schedule 2/4/6**  
1,4-dihydroxybenzene (CAS 123-31-9)

**High Volume Industrial Chemicals (HVIC)**  
Not listed.

**Importation of Ozone Deleting Substances (Customs(Prohibited imports) Regulations 1956, Schedule 10)**  
Not listed.

**National Pollutant Inventory (NPI) substance reporting list**  
Not listed.

**Prohibited Carcinogenic Substances**  
Not regulated.

**Prohibited Substances (National Model Regulation for the control of Workplace Hazardous Substances, Schedule 2 NOHSC:1005 (1994) as amended)**  
Not listed.

**Restricted Importation of Organochlorine Chemicals (Customs(Prohibited Imports) Regulations 1956, Schedule 9)**  
Not listed.

**Restricted Carcinogenic Substances**  
Not regulated.

#### International regulations

**Stockholm Convention**  
Not applicable

**Rotterdam Convention**  
Not applicable.

**Kyoto protocol**

Not applicable.

**Montreal Protocol**

Not applicable.

**Basel Convention**

Ethyl 2-cyanoacrylate (CAS 7085-85-0)

**Inventory status:**

Country(s) or region	Inventory name	On inventory (yes/no)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic /Non-Domestic Substances List (DSL) /(NDSL)	Yes
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial/ Notified Chemical Substances (EINECS) / (ELINCS)	Yes
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

<b>Indication of changes:</b>	Version 1.0
<b>Training instructions:</b>	Not applicable.
<b>Further information:</b>	This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.
<b>Notice to reader:</b>	Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.  This information is furnished without warranty, and any use of the product not in conformance with this Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.