



## Safety Data Sheet

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LOC PLASTIC BONDR SYR 8P PTB

SDS No. : 157307

V001.0

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### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

<b>Product name:</b>	LOC PLASTIC BONDR SYR 8P PTB
<b>Intended use:</b>	Structural adhesive
<b>Supplier:</b>	Henkel New Zealand Ltd 2 Allens Rd Auckland, 2013 New Zealand Phone: +64 (9) 272-6710
<b>Emergency information:</b>	24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

### SECTION 2 HAZARDS IDENTIFICATION

#### Classification of the substance or mixture

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

#### GHS Classification:

<u>Hazard Class</u>	<u>Hazard Category</u>	<u>Target organ</u>
Flammable liquids	Category 2	
Skin irritation	Category 2	
Skin sensitizer	Category 1	
Target Organ Systemic Toxicant - Single exposure	Category 3	respiratory tract irritation
Acute hazards to the aquatic environment	Category 1	
Chronic hazards to the aquatic environment	Category 2	

#### Hazard pictogram:



**Signal word:** Danger

**Hazard statement(s):** H225 Highly flammable liquid and vapour.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.  
H411 Toxic to aquatic life with long lasting effects.

**Precautionary Statement(s):**

**Prevention:** P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 Keep container tightly closed.  
P240 Ground and bond container and receiving equipment.  
P241 Use explosion-proof electrical/ventilating/lighting equipment.  
P242 Use non-sparking tools.  
P243 Take action to prevent static discharges.  
P261 Avoid breathing mist/vapours.  
P264 Wash hands thoroughly after handling.  
P271 Use only outdoors or in a well-ventilated area.  
P272 Contaminated work clothing should not be allowed out of the workplace.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.

**Response:** P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].  
P304+P340+P312 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or physician if you feel unwell.  
P333+P313 If skin irritation or rash occurs: 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.  
P391 Collect spillage.

**Storage:** P403+P233 Store in a well-ventilated place. Keep container tightly closed.  
P403+P235 Store in a well-ventilated place. Keep cool.  
P405 Store locked up.

**Disposal:** P501 Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations.

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS**

**General chemical description:** Mixture

**Identity of ingredients:**

Chemical ingredients	CAS-No.	Proportion
methyl methacrylate	80-62-6	50- < 70 %
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine	34562-31-7	1- < 10 %
non hazardous ingredients~		30- <= 60 %

**SECTION 4 FIRST AID MEASURES**

**Ingestion:** Do not induce vomiting.  
Have victim rinse mouth thoroughly with water.  
Seek medical advice.

**Skin:** Immediately flush skin with plenty of water (using soap, if available).  
Remove contaminated clothing and footwear.  
Seek medical advice.  
Wash clothing before reuse.

<b>Eyes:</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical advice.
<b>Inhalation:</b>	Move to fresh air. Keep warm and in a quiet place. Seek medical advice.
<b>First Aid facilities:</b>	Eye wash and safety shower Normal washroom facilities
<b>Medical attention and special treatment:</b>	Treat symptomatically.

### SECTION 5. FIRE FIGHTING MEASURES

<b>Suitable extinguishing media:</b>	Carbon dioxide, foam, powder Fine water spray
<b>Improper extinguishing media:</b>	Water spray jet
<b>Decomposition products in case of fire:</b>	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen. Cyanides.
<b>Particular danger in case of fire:</b>	WARNING FLAMMABLE! Vapours may accumulate in low or confined areas, travel considerable distance to source of ignition, and flash back.
<b>Special protective equipment for fire-fighters:</b>	Wear protective equipment. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
<b>Additional fire fighting advice:</b>	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.
<b>Hazchem code:</b>	•3YE

### SECTION 6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions:</b>	Keep away from sources of ignition. Danger of slipping on spilled product. Wear impervious gloves and chemical splash goggles. Do not breathe solvent vapors. Ensure adequate ventilation. Avoid skin and eye contact.
<b>Environmental precautions:</b>	Do not empty into drains / surface water / ground water.
<b>Clean-up methods:</b>	Soak up with inert absorbent. Use noncombustible absorbent material such as sand. Dispose of contaminated material as waste according to Section 13.

**SECTION 7. HANDLING AND STORAGE**

- Precautions for safe handling:** Ventilate working rooms thoroughly. Avoid naked flames, sparking and sources of ignition. Switch off electrical devices. Do not smoke, do not weld. Do not inhale vapors and fumes. Gloves and safety glasses should be worn. Avoid skin and eye contact.
- Conditions for safe storage:** Keep container tightly sealed. Store in a cool, dry place. Keep away from heat and direct sunlight. Refer to AS 1940: The Storage and Handling of Flammable and Combustible Liquids.

**SECTION 8. EXPOSURE CONTROLS / PERSONAL PROTECTION****Workplace exposure standards:**

Ingredient [Regulated substance]	form of exposure	TWA (ppm)	TWA (mg/m3)	Ceiling	STEL (ppm)	STEL (mg/m3)
METHYL METHACRYLATE 80-62-6		50	208	-	-	-
METHYL METHACRYLATE		-	-	-	100	416

**Biological Exposure Indices:**  
None

**Eye protection:** Wear chemical goggles and face shield.

**Skin protection:** Use impermeable gloves and protective clothing as necessary to prevent skin contact. Please note that in practice the working life of chemical resistant gloves may be considerably reduced as a result of many influencing factors (e.g. temperature). Suitable risk assessment should be carried out by the end user. If signs of wear and tear are noticed then the gloves should be replaced.  
Nitrile gloves.  
  
Butyl rubber gloves.

**Respiratory protection:** If inhalation risk exists, wear a respirator or air supplied mask complying with the requirements of AS/NZS 1715 and AS/NZS 1716.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:** Tan, Opaque  
Liquid

**Odor:** None identified.

**pH:** Product is non-soluble (in water).

**Specific gravity:** 0.96

**Boiling point:** > 100 °C (> 212 °F)

**Flash point:** 14 °C (57.2 °F)  
(Setaflash Closed Cup; ASTM D3828 Method B)

**Density:** 1.03 g/cm<sup>3</sup>

**SECTION 10. STABILITY AND REACTIVITY**

**Stability:** Stable under normal conditions of temperature and pressure.

**Conditions to avoid:** Avoid heating.  
Keep away from open flames, hot surfaces and sources of ignition.  
Store away from incompatible materials.  
Protect from direct sunlight.

**Incompatible materials:** Acids.  
Amines.  
Bases.  
Reaction with reducing agents.  
Reaction with strong oxidants.

**Hazardous decomposition products:** Thermal decomposition can lead to release of irritating gases and vapors.  
  
Carbon monoxide.  
Carbon dioxide.  
Oxides of nitrogen.  
Cyanides.

**SECTION 11 TOXICOLOGICAL INFORMATION**

**Health Effects:**

**Ingestion:** Ingestion can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

**Skin:** This product is irritating to the skin.  
Symptoms may include redness, edema, drying, defatting and cracking of the skin.  
May cause sensitization by skin contact.

**Eyes:** May cause mild irritation  
Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

**Inhalation:** This product is irritating to the respiratory system.  
Vapors may cause headaches, nausea, dizziness and respiratory tract irritation.

**Acute toxicity:**

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
methyl methacrylate 80-62-6	LD50	9,400 mg/kg	oral	4 h	rat	not specified
	LC50	29.8 mg/l	inhalation		rat	not specified
	LD50	> 5,000 mg/kg	dermal		rabbit	not specified
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine 34562-31-7	LD50	> 500 mg/kg	oral		rat	other guideline:
	Acute toxicity estimate (ATE)	501 mg/kg	oral		rabbit	Expert judgement
	LD50	> 1,000 mg/kg	dermal			other guideline:

**Skin corrosion/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine 34562-31-7	irritating	4 h	rabbit	EPA OTS 798.4470 (Acute Dermal Irritation)
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine 34562-31-7	not corrosive		Corrositex Biobarrier Membrane (reconstituted collagen matrix)	OECD Guideline 435 (In Vitro Membrane Barrier Test Method for Skin Corrosion)

**Serious eye damage/irritation:**

Hazardous components CAS-No.	Result	Exposure time	Species	Method
3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine 34562-31-7	irritating		rabbit	EPA OTS 798.4500 (Acute Eye Irritation)

**Respiratory or skin sensitization:**

Hazardous components CAS-No.	Result	Test type	Species	Method
methyl methacrylate 80-62-6	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

**Germ cell mutagenicity:**

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
methyl methacrylate 80-62-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		not specified

**Repeated dose toxicity:**

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
methyl methacrylate 80-62-6	LOAEL=2000 ppm	inhalation	14 weeks 6 hrs/day, 5 days/wk	mouse	Dose Range Finding Study
methyl methacrylate 80-62-6	NOAEL=1000 ppm	inhalation	14 weeks 6 hrs/day, 5 days/wk	mouse	Dose Range Finding Study

**SECTION 12. ECOLOGICAL INFORMATION**

**General ecological information:** Do not empty into drains / surface water / ground water.

**Toxicity:**

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
methyl methacrylate 80-62-6	LC50	350 mg/l	Fish	96 h	Leuciscus idus	OECD Guideline 203 (Fish, Acute Toxicity Test)
methyl methacrylate 80-62-6	EC50	69 mg/l	Daphnia	48 h	Daphnia magna	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test, Freshwater Daphnids)
methyl methacrylate 80-62-6	EC50	170 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methyl methacrylate 80-62-6	NOEC	100 mg/l	Algae	96 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
methyl methacrylate 80-62-6	EC20	> 150 - 200 mg/l	Bacteria	30 min	activated sludge, domestic	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated Sludge)
3,5-Diethyl-1,2-dihydro-1- phenyl-2-propylpyridine 34562-31-7	EC50	0.023 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3,5-Diethyl-1,2-dihydro-1- phenyl-2-propylpyridine 34562-31-7	EC50	0.0431 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
3,5-Diethyl-1,2-dihydro-1- phenyl-2-propylpyridine 34562-31-7	NOEC	0.017 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)

**Persistence and degradability:**

Hazardous components CAS-No.	Result	Route of application	Degradability	Method
methyl methacrylate 80-62-6	readily biodegradable	aerobic	94 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
3,5-Diethyl-1,2-dihydro-1- phenyl-2-propylpyridine 34562-31-7	not readily biodegradable.	aerobic	> 0 - < 60 %	OECD 301 A - F

**Bioaccumulative potential / Mobility in soil:**

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
methyl methacrylate 80-62-6	1.38				20 °C	other guideline:
3,5-Diethyl-1,2-dihydro-1- phenyl-2-propylpyridine 34562-31-7	6.578					QSAR (Quantitative Structure Activity Relationship)

**SECTION 13. DISPOSAL CONSIDERATIONS**

**Waste disposal of product:** Dispose of in accordance with local and national regulations.

**Disposal for uncleaned package:** Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

**SECTION 14. TRANSPORT INFORMATION**

**Dangerous Goods information:**

**Land Transport:**

Classified as Dangerous Goods under the Land Transport Rule: Dangerous Goods 2005.

**Land Transport:**

UN no.: 1133  
 Proper shipping name: ADHESIVES  
 Class or division: 3  
 Packing group: II  
 Hazchem code: •3YE

**Marine transport IMDG:**

UN no.: 1133  
 Proper shipping name: ADHESIVES (3,5-Diethyl-1,2-dihydro-1-phenyl-2-propylpyridine)  
 Class or division: 3  
 Packing group: II  
 EmS: F-E ,S-D  
 Seawater pollutant: Marine pollutant

**Air transport IATA:**

UN no.: 1133  
 Proper shipping name: Adhesives  
 Class or division: 3  
 Packing group: II  
 Packing instructions (passenger): 353  
 Packing instructions (cargo): 364

**SECTION 15. REGULATORY INFORMATION**

**New Zealand regulatory information:**

Classified as hazardous under the New Zealand Hazardous Substances and New Organisms Act (HSNO).

**HSNO Approval Number:** HSR002662

**Site and Storage:** Refer to the site and storage requirements for this Group Standard.  
 Refer to the HSNO controls for approved hazardous substances.

**NZIoC:** Compliant for NZIOC

**SECTION 16. OTHER INFORMATION**

**Abbreviations/acronyms:** HSNO - Hazardous Substances and New Organisms  
 STEL - Short term exposure limit  
 TWA - Time weighted average  
 GHS: Globally Harmonized System  
 CAS: Chemical Abstracts Service  
 IMDG: International Maritime Dangerous Goods code  
 IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

**Reason for issue:** First issue. involved chapters: 1-16



**Disclaimer:**

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