

Safety Data Sheet

Issue Date: 06/29/2023

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Section 1: Chemical Product and Company Identification

Cat#: Part of Catalog Number 21255 (Lowicryl HM20 Embedding Kit)

Part Name: MONOMER E SOLUTION (LOWICRYL HM20)

Supplier: Ladd Research

3 Ewing Place

Essex Junction, VT 05452 USA

Telephone +1-802-658-4961 Fax: +1-802-660-8859 Emergency: +1-703-741-5500 (Chemtrec)

Identified uses: Laboratory use, manufacture of substances

Section 2: Hazards Identification

Hazard Overview

Flammable liquid and vapor.

GHS Classification

Flammable Liquids Category 3

Signal word: Danger



Hazard and Precautionary Statements

H226 Flammable liquid and vapour.

P285 In case of inadequate ventilation wear respiratory protection.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P305B IF IN EYES, Separate eyelids with finger tips.

P315 Get immediate medical advice/attention.

P351 Rinse cautiously with water for several minutes.

NFPA Rating

Hazard Ratings:

These ratings are independent assessments of the properties of the material using the ANSI/NFPA 704 Standard.

Additional information can be found by consulting in the NFPA published ratings lists (List 325 and List 49).

If no data is listed the information is not available.

Health	Flammability	Reactivity
0	3	0

Section 3: Composition/ Information on Ingredients

Note: Items listed with a CASRN... number have no CAS# available.

Item#	Name	EINECS	CAS#	% in product
1	2-Propenoic acid, 2-methyl-, ethyl ester	202-597-5	0000097632	81 - 90
2	4-Methoxyphenol	205-769-8	0000150765	0 - 5
3	n-Hexyl methacrylate	205-521-9	0000142096	21 - 30

Section 4: First Aid Measures

Contact medical personnel immediately.

Flush eyes with flowing water for at least 15 minutes.

If swallowed, wash out mouth with water if person is conscious.

Separate eyelids with finger tips.

Wash skin with deluge of water for at least 15 minutes.

Section 5: Fire Fighting Measures

Flash point, deg F.: 76

Method: PMCC (DALARE 010301

UEL: no data LEL: 1.8

Autoignition temperature, deg. F.: 739 F

Flammability Classification: IC

Flame Propagation Rate: no data

Hazardous Combustion Products: none

Section 6: Accidental Release Measures

Any information listed below is to be considered in addition to internal guidelines for isolation of spill, containment of spill, removal of ignition sources from immediate area, and collection for disposal of spill by trained, properly protected clean up personnel.

Remove ignition sources.

Section 7: Handling and Storage

Store at room temp

Section 8: Exposure Controls/ Personal Protection

OSHA (ACGIH) Exposure Limits

		TWA		STEL		CEILING	
		ppm	mg/	ppm	mg/m3	ppm	mg/m3
CAS#: 0000097632	IDLH: --						
OSHA		Not classifi	--	--	--	--	--
ACGIH		--	--	--	--	--	--
CAS#: 0000142096	IDLH: NE						
OSHA		NE	NE	NE	NE	NE	NE
ACGIH		NE	NE	NE	NE	NE	NE
CAS#: 0000150765	IDLH: --						
OSHA		Not classifi	--	--	--	--	--
ACGIH		--	5	--	--	--	--

The use of eye protection in the form of safety glasses with side shields and the use of skin protection for hands in the form of gloves are considered minimum and non-discretionary in work places and laboratories. Any recommended personal protection equipment or environmental equipment is to be considered as additional to safety glasses and gloves.

Use process enclosures, local exhaust ventilation, or other engineering controls.

Chemical-resistant gloves should be worn whenever this material is handled. The glove material has to be impermeable and resistant to the product. Gloves should be removed and replaced immediately if there is any indication of degradation or chemical breakthrough.

Rinse and remove gloves immediately after use. Wash hands with soap and water. All glove recommendations presume that the risk of exposure is through splash and not intentional immersion of the hands into the product.

Since glove permeation data does not exist for this material, no recommendation for the glove material can be given for the product.

Permiation data must be obtained from the glove manufacturer to determine if the glove is suitable for the task.

Section 9: Physical and Chemical Properties

Formula:	no data	vapor pressure:	21.3 mbar
Formula Weight:	no data	vapor density:	>1
boiling point:	246	Specific gravity:	0.9
melting point:	-103 F	ph:	no data
solubility:	slight	appearance:	clear colorless liquid

Section 10: Stability and Reactivity

Chemical Stability stable

Conditions to Avoid: heat; ignition sources

Incompatibility with other materials: oxidizers; initiators

Hazardous Decomposition Products: none

Hazardous Polymerization: will not occur

Section 11: Toxicological Information

Acute Data: LD oral rat 13424 mg/kg; LD50 dermal rabbit >9100 mg/kg; LC50 inhalation rat 8300 ppm/4H

Subchronic data: Tests positive as mutagen on laboratory animals.

Section 12: Ecological Information

no data

Section 13: Disposal Considerations

The following chart lists the status of the chemical and its components in reference to 40 CFR Part 261.33. If the product is listed by code number the substance may be subject to special federal and state disposal regulations. If no codes are listed the material must be disposed in compliance with all Federal, State and Local Regulations.

CAS#	Waste Code	Regulated Name
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0000097632	U118	Ethyl methacrylate
0000142096	not listed	not listed
0000150765	not listed	not listed

Section 14: Transportation Data

Proper Shipping Name	RESIN SOLUTION
Chemical Name	
UN	UN1866
Class	3
PG	III

Section 15: Regulatory Information

All components of this product are on the TSCA public inventory.

All components of this product are on the TSCA public inventory.

Prop 65 - Column A identifies those items which are known to the State of California to cause cancer. Column B identified items which are known to the State of California to cause reproductive toxicity.

CAS#	Column A	Column B
0000097632	no	no
0000142096	no	no
0000150765	no	no

State Regulatory Information :If a CAS# is listed below this material is subject to the listed state right-to-know requirements.

CAS#	
0000097632	not listed
0000142096	not listed
0000150765	not listed

SARA Toxic Release Chemicals(as defined in Section 313 of SARA Title III)

This list identifies the toxic chemicals, including their de minimis concentrations for which reporting is required under Section 313 of the Emergency Planning and Community Right-to-Know Act (EPCRA). The list is also referred to as the Toxics Release Inventory (TRI) List.

CAS#	Regulated name	de minimis conc. %	Rep. Thres.
0000097632	not listed	not listed	not listed
0000142096	not listed	not listed	not listed
0000150765	not listed	not listed	not listed

SARA Extremely Hazardous Substances and TPQs

This list includes hazardous chemicals as defined in 29 CFR 1910.1200(c); and extremely hazardous substances regulated under Section 302 of SARA Title III with their TPQs (in pounds), as listed in 40 CFR 355, Appendices A and B.

CAS#	Regulated name	TPQ (pounds)	EHS-RQ(pounds)
0000097632	not listed	not listed	not listed
0000142096	not listed	not listed	not listed
0000150765	not listed	not listed	not listed

CERCLA

The hazardous substances, and their reportable quantities (RQs) are listed in the federal regulations at 40 CFR Part 302, Table 302.4. Release of a CERCLA hazardous substance in an amount equal to or greater than its RQ, in any 24-hour period, must be reported to the National Response Center at (800) 424-8802.

CAS#	Regulated name	RQ (pounds)
0000097632	Not listed	Not listed
0000097632	2-Propenoic acid, 2-methyl-, ethyl ester	1,000
0000097632	Ethyl methacrylate	1,000
0000142096	Not listed	Not listed
0000150765	Not listed	Not listed

Section 16: Other Information

The information presented is believed to be correct and is the most accurate information available to us at this time. However, Ladd Research makes no warranty, express or implied, and assumes no liability for this information and the product described herein.