Safety Data Sheet

LOCTITE EA 9017 B known as LOCTITE FM POXY PAK 1FO PT B

SDS No. : 352971
V001.3
Revision: 25.07.2017
printing date: 06.10.2021

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: LOCTITE EA 9017 B known as LOCTITE FM POXY PAK 1FO PT B

Intended use: Epoxy Hardener

Supplier:
Henkel New Zealand Ltd
2 Allens Rd
Auckland, 2013
New Zealand

Phone: +64 (9) 272-6710

Emergency information: 24 HOUR EMERGENCY CONTACT NUMBER 0800 243 622

SECTION 2 HAZARDS IDENTIFICATION

Classification of the substance or mixture

HSNO Classification:

6.5B Class 6 - Toxicity, Subclass 6.5 - Sensitisation, Hazard Classification B
Class 6 - Toxicity, Subclass 6.6 - Mutagen, Hazard Classification B
Class 8 - Corrosiveness, Subclass 8.2 - Skin corrosive, Hazard Classification B
Class 8 - Corrosiveness, Subclass 8.3 - Eye corrosive, Hazard Classification A
Class 9 - Ecotoxicity, Subclass 9.1 - Aquatic, Hazard Classification C

GHS Classification:

Hazard Class	Hazard Category
Skin corrosion	Category 1B
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1
Germ cell mutagenicity	Category 2
Acute hazards to the aquatic environment	Category 3
Chronic hazards to the aquatic environment	Category 3

Hazard pictogram:

Signal word: Danger

Hazard statement(s):
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H341 Suspected of causing genetic defects.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statement(s):

Prevention:
P201 Obtain special instructions before use.
P202 Do not handle until all safety precautions have been read and understood.
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P264 Wash hands thoroughly after handling.
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.
P281 Use personal protective equipment as required.

Response:
P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.
P304+P340+P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or physician.
P305+P351+P338+P315 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.

Storage:
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
Type of preparation: Mixture

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
m-Phenylenebis(methylamine)	1477-55-0	10- 30 %
2,4,6-Tris(dimethylaminomethyl)phenol	90-72-2	< 10 %
Phenol	108-95-2	< 3 %
non hazardous ingredients~		60- 100 %

SECTION 4 FIRST AID MEASURES

Ingestion:	Do not induce vomiting. Have victim rinse mouth thoroughly with water. Seek medical advice.
Skin:	In case of contact, immediately remove contaminated clothing and flush skin with copious amounts of water. Seek medical attention from a specialist.
Eyes:	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Seek medical attention from a specialist.
Inhalation:	Move to fresh air. Keep warm and in a quiet place. Seek medical advice.
First Aid facilities:	Eye wash and safety shower Normal washroom facilities
Medical attention and special treatment:	Treat symptomatically and supportively.

SECTION 5. FIRE FIGHTING MEASURES

Suitable extinguishing media:	Carbon dioxide, foam, powder Fine water spray
Improper extinguishing media:	Water spray jet
Decomposition products in case of fire::	Thermal decomposition can lead to release of irritating gases and vapors. Carbon monoxide. Carbon dioxide. Oxides of nitrogen.
Special protective equipment for fire-fighters:	Wear protective equipment. Fire fighters should wear positive pressure self-contained breathing apparatus (SCBA).
Additional fire fighting advice:	In case of fire, keep containers cool with water spray. Collect contaminated fire fighting water separately. It must not enter drains.
Hazchem code:	2X

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Danger of slipping on spilled product. Ensure adequate ventilation. Avoid skin and eye contact. Wear impervious gloves and chemical splash goggles.
Environmental precautions:	Do not empty into drains / surface water / ground water.
Clean-up methods:	Collect spilled material with an inert absorbent such as sand or vermiculite. Place in properly labeled closed container. Dispose of contaminated material as waste according to Section 13.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:	Gloves and safety glasses should be worn Avoid skin and eye contact. Ensure that workrooms are adequately ventilated. Avoid breathing vapors or mists of this product.

Conditions for safe storage: Keep container tightly sealed.
Store in a cool, dry, well-ventilated area.
Protect from direct sunlight.

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)
M-XYLENE A,A'-DIAMINE 1477-55-0		-	-	0.1 mg/m3	-	-
PHENOL 108-95-2		5		-	-	-

Engineering controls: Use local exhaust ventilation if the potential for airborne exposure exists.

Eye protection: For eye protection, use tightly fitted safety goggles and a face-shield

Skin protection: Use of protective coveralls and long sleeves is recommended.
Suitable protective gloves.

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.

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: Amber, Translucent
Liquid
Odor: Amine, Mercaptan
Specific gravity: 1.04
Flash point: > 93 °C (> 199.4 °F)
(Tagliabue closed cup)

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Heat, flames, sparks and other sources of ignition.
Elevated temperatures.
Store away from incompatible materials.

Incompatible materials: Acids.
Oxidizing agents.
Alkalis.

Hazardous decomposition products: Thermal decomposition can lead to release of irritating gases and vapors.

Carbon monoxide.
Carbon dioxide.
Oxides of nitrogen.

Hazardous polymerization: Will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion: Irritation and corrosive action can occur in the mouth, stomach tissue and digestive tract if swallowed.

Skin: Corrosive to skin.
Symptoms may include redness, burning, drying, cracking and skin burns.
May cause skin sensitization.

Eyes: Causes serious eye damage.
Contact with the eyes may cause moderate to severe eye injury. Eye contact may result in corneal injury. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.

Inhalation: Inhalation of vapors or mist can cause severe irritation, tissue and scarring of the respiratory tract.

Mutagenicity: Category 2 (Mutagen), Suspected of causing genetic defects.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
m-Phenylenebis(methylamine) 1477-55-0	LD50 LC50 LD50	980 mg/kg 1.16 mg/l > 3,100 mg/kg	oral inhalation dermal	 4 h 	rat rat rat	not specified OECD Guideline 403 (Acute Inhalation Toxicity)
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	LD50	1,200 mg/kg	oral		rat	not specified
Phenol 108-95-2	LC0 LD50	660 mg/kg	 inhalation dermal	8 h	rat rat	OECD Guideline 403 (Acute Inhalation Toxicity) OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Phenol 108-95-2	corrosive	3 min		not specified

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
Phenol 108-95-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
m-Phenylenebis(methylamine) 1477-55-0	sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)

Germ cell mutagenicity:

Hazardous components CAS-No.	Result	Type of study / Route of administration	Metabolic activation / Exposure time	Species	Method
m-Phenylenebis(methylamine) 1477-55-0	negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test	with and without with and without		not specified not specified
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	negative negative negative	bacterial reverse mutation assay (e.g Ames test) in vitro mammalian chromosome aberration test mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) OECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test) OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Phenol 108-95-2	positive	in vitro mammalian cell micronucleus test	with and without		not specified

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
m-Phenylenebis(methylamine) 1477-55-0	LOAEL=>= 600 mg/kg	oral: gavage	28 daysdaily	rat	Guidelines for 28-Day Repeat Dose Toxicity Test (Japan)

SECTION 12. ECOLOGICAL INFORMATION

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

Ecotoxicity: Harmful to aquatic life with long lasting effects.

Toxicity:

Hazardous components CAS-No.	Value type	Value	Acute Toxicity Study	Exposure time	Species	Method
m-Phenylenebis(methylamine) 1477-55-0	LC50	> 100 mg/l	Fish	96 h	Oncorhynchus mykiss	OECD Guideline 203 (Fish, Acute Toxicity Test)
m-Phenylenebis(methylamine) 1477-55-0	EC50	16 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
m-Phenylenebis(methylamine) 1477-55-0	EC50	33.3 mg/l	Algae	72 h	Selenastrum capricornutum (newname: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
m-Phenylenebis(methylamine) 1477-55-0	NOEC	22.9 mg/l	Algae	72 h	Selenastrum capricornutum (newname: Pseudokirchnerella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	LC50	153 mg/l	Fish	96 h	Brachydanio rerio (new name: Danio rerio)	ISO 7346-1 (Determination of the Acute Lethal Toxicity of Substances to a Freshwater Fish [Brachydanio rerio Hamilton-Buchanan (Teleostei, Cyprinidae)]
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	EC50	84 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	NOEC	6.25 mg/l	Algae	72 h	Desmodesmus subspicatus	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	EC0	27 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Phenol 108-95-2	LC50	8.9 mg/l	Fish	96 h	Oncorhynchus mykiss	EPA-660 (Methods for Acute Toxicity Tests with Fish, Macroinvertebrates and Amphibians)
Phenol 108-95-2	NOEC	0.077 mg/l	Fish	60 d	Cirrhinus mrigala	OECD Guideline 215 (Fish, Juvenile Growth Test)
Phenol 108-95-2	EC50	3.1 mg/l	Daphnia	48 h	Ceriodaphnia dubia	other guideline:
Phenol 108-95-2	EC50	61.1 mg/l	Algae	96 h	Pseudokirchnerella subcapitata (reported as Selenastrum capricornutum)	other guideline:
Phenol 108-95-2	EC50	766 mg/l	Bacteria	3 h	activated sludge, industrial	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	Result	Route of application	Degradability	Method

2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	not readily biodegradable.	aerobic	4 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
Phenol 108-95-2	readily biodegradable	aerobic	62 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method
2,4,6-Tris(dimethylaminomethyl)phenol 90-72-2	-0.66				21.5 °C	EPA OPPTS 830.7550 (Partition Coefficient, n-octanol / H2O, Shake Flask Method)
Phenol 108-95-2		17.5	5 h	Danio rerio (reported as Brachydanio rerio)	25 °C	OECD Guideline 305 E (Bioaccumulation: Flow-through Fish Test)
Phenol 108-95-2	1.47				30 °C	OECD Guideline 117 (Partition Coefficient (n-octanol / water), HPLC Method)

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

Land Transport:

UN no.: 2735
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylylenediamine)
Class or division: 8
Packing group: II
Hazchem code: 2X

Marine transport IMDG:

UN no.: 2735
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (m-Xylylenediamine)
Class or division: 8
Packing group: II
EmS: F-A ,S-B
Seawater pollutant: -

Air transport IATA:

UN no.: 2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (m-Xylylenediamine)
Class or division: 8
Packing group: II
Packing instructions (passenger) 851
Packing instructions (cargo) 855

SECTION 15. REGULATORY INFORMATION

HSNO Approval Number: HSR002658

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:
STEL - Short term exposure limit
TWA - Time weighted average
HSNO - Hazardous Substances and New Organisms
GHS: Globally Harmonized System
CAS: Chemical Abstracts Service
LD 50: Lethal Dose 50%
LC 50: Lethal Concentration 50%
IMDG: International Maritime Dangerous Goods code
IATA-DGR: International Air Transport Association – Dangerous Goods Regulations

Reason for issue: Reviewed SDS. Reissued with new date. involved chapters: 1 - 16

Date of previous issue: 22.09.2014

Disclaimer:

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