Safety Data Sheet

Loctite Epoxy Marine Hardener

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SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product name: Loctite Epoxy Marine Hardener

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

GHS Classification:

Hazard Class	Hazard Category
Skin corrosion	Sub-category 1B
Serious eye damage/eye irritation	Category 1
Skin sensitizer	Category 1
Target Organ Systemic Toxicant - Repeated exposure	Category 1

Hazard pictogram:

Signal word: Danger

Hazard statement(s):
H314 Causes severe skin burns and eye damage.
H317 May cause an allergic skin reaction.
H372 Causes damage to organs through prolonged or repeated exposure.

Precautionary Statement(s):

Prevention:
P260 Do not breathe mist/vapours.
P264 Wash hands thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

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 [or 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 remove. Continue rinsing. Get immediate medical advice/attention.
P314 Get medical advice/attention 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.

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

Identity of ingredients:

Chemical ingredients	CAS-No.	Proportion
Quartz (SiO2) respirable particulates (RCS) >=10%	14808-60-7	30- < 50 %
1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched	68479-04-9	5- < 10 %
benzyl alcohol	100-51-6	1- < 10 %
3- Aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2	3- < 5 %
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2	1- < 3 %
2-piperazin-1-ylethylamine	140-31-8	1- < 3 %
4-tert-butylphenol	98-54-4	1- < 3 %
non hazardous ingredients~		10- <= 30 %

SECTION 4 FIRST AID MEASURES

Ingestion:
Do not induce vomiting.
Rinse mouth and throat.
Never give anything by mouth to an unconscious person.
Get immediate medical attention.

Skin:
For skin contact flush with large amounts of water.
Remove contaminated clothing and footwear.
Get immediate medical attention.
Wash clothing before reuse.

Eyes:	Immediately flush eyes with plenty of water for at least 15 minutes. Immediate medical treatment necessary.
Inhalation:	Move to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical attention.
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:	Water spray (fog), foam, dry chemical or carbon dioxide.
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. Ammonia.
Special protective equipment for fire-fighters:	Wear full protective clothing. 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.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions:	Keep unprotected persons away. Ensure adequate ventilation. If vapors are generated, wear suitable respiratory equipment. Avoid skin and eye contact. Wear protective equipment.
Environmental precautions:	Do not allow product to enter sewer or waterways.
Clean-up methods:	Evacuate and ventilate spill area; dike spill to prevent entry into water system; wear full protective equipment during clean-up. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Scrape up spilled material and place in a closed container for disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling:

Avoid naked flames, sparking and sources of ignition.
Prevent contact with eyes, skin and clothing. Do not breathe vapor and mist. Wash thoroughly after handling.
Wear suitable protective clothing, safety glasses and gloves.
Use only with adequate ventilation.
Keep container closed.

Conditions for safe storage:

Store in locked premises or with access restricted to especially instructed personnel.
Store in sealed original container.
Ensure that storage and workrooms are adequately ventilated.
Keep away from sources of ignition.
Isolate from incompatible substances.

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)
SILICA-CRYSTALLINE (ALL FORMS), RESPIRABLE DUST 14808-60-7	Respirable dust.		0.05	-	-	-

Biological Exposure Indices:

Ingredient [Regulated substance]	Parameters	Biological specimen	Sampling time	Conc.	Basis of biol. exposure index	Remark	Additional Information
4-tert-Butylphenol 98-54-4	PTBP (with hydrolysis)	Urine	Sampling time: End of shift.	2 mg/l	DE BGW		

Engineering controls:

Draw off vapours directly at the point of generation and exit. In the case of regular work, provide bench-mounted extraction equipment.

Eye protection:

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

Skin protection:

Wear suitable protective clothing.
Impervious gloves should be used at all times when handling this product.
Protective clothing that covers arms and legs.
Use of Butyl or Nitrile Rubber gloves is recommended.
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: White
Liquid
Odor: Mercaptan
Melting point / freezing point: Not available.
Flash point: > 93 °C (> 199.4 °F)
Vapor pressure:
Not available.
Vapor density: Not available.
Density: 1.55 g/cm3
Solubility in water: Insoluble

SECTION 10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions of temperature and pressure.

Conditions to avoid: Keep away from heat, ignition sources and incompatible materials.
Avoid moisture.
Avoid mixing resin (Part A) and curing agent (Part B) unless you plan to use immediately.

Incompatible materials: Acids.
Peroxides.
Oxidizing agents.

Hazardous decomposition products: Thermal decomposition may release toxic and/or hazardous gases.

carbon monoxide
Carbon dioxide.
Oxides of nitrogen.
Ammonia.

Hazardous polymerization: None under normal processing.

SECTION 11 TOXICOLOGICAL INFORMATION

Health Effects:

Ingestion: If ingested, severe burns of the mouth and throat may occur, as well as perforation of the esophagus and the stomach.

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

Eyes: Contact with this product may cause severe 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.

Acute toxicity:

Hazardous components CAS-No.	Value type	Value	Route of application	Exposure time	Species	Method
Quartz (SiO2) respirable particulates (RCS) >=10% 14808-60-7	LD50 LD50	> 22,500 mg/kg > 5,000 mg/kg	oral dermal		rat rat	not specified not specified
benzyl alcohol 100-51-6	LD50 Acute toxicity estimate (ATE) LC50 Acute toxicity estimate (ATE)	1,620 mg/kg 4.17 mg/l > 4.178 mg/l 2,500 mg/kg	oral inhalation inhalation dermal	 4 h 	rat rat 	not specified Expert judgement OECD Guideline 403 (Acute Inhalation Toxicity) Expert judgement
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	Acute toxicity estimate (ATE) LC50 Acute toxicity estimate (ATE) LD50	1,030 mg/kg > 5.01 mg/l 5.011 mg/l > 2,000 mg/kg	oral inhalation inhalation dermal	 4 h 	rat rat 	Expert judgement OECD Guideline 403 (Acute Inhalation Toxicity) Expert judgement OECD Guideline 402 (Acute Dermal Toxicity)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	LD50	1,200 mg/kg	oral		rat	not specified
2-piperazin-1-ylethylamine 140-31-8	LD50	866 mg/kg	dermal		rabbit	Draize Test
4-tert-butylphenol 98-54-4	LD50 LC50 LD50	4,000 mg/kg > 5.6 mg/l > 16,000 mg/kg	oral inhalation dermal	 4 h 	rat rat rabbit	OECD Guideline 401 (Acute Oral Toxicity) not specified OECD Guideline 402 (Acute Dermal Toxicity)

Skin corrosion/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
benzyl alcohol 100-51-6	not irritating	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	corrosive	4 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
2-piperazin-1-ylethylamine 140-31-8	corrosive	20 min	rabbit	not specified
4-tert-butylphenol 98-54-4	irritating	5 h	rabbit	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

Serious eye damage/irritation:

Hazardous components CAS-No.	Result	Exposure time	Species	Method
benzyl alcohol 100-51-6	irritating	24 h	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	corrosive		rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
4-tert-butylphenol 98-54-4	Category 1 (irreversible effects on the eye)	1 s	rabbit	OECD Guideline 405 (Acute Eye Irritation / Corrosion)

Respiratory or skin sensitization:

Hazardous components CAS-No.	Result	Test type	Species	Method
benzyl alcohol 100-51-6	not sensitising	Mouse local lymphnode assay (LLNA)	mouse	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	not sensitising	Buehler test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	not sensitising	Guinea pig maximisation test	guinea pig	OECD Guideline 406 (Skin Sensitisation)
2-piperazin-1-ylethylamine 140-31-8	sensitising	Guinea pig maximisation test	guinea pig	equivalent or similar to OECD Guideline 406 (Skin Sensitisation)
4-tert-butylphenol 98-54-4	not sensitising	Guinea pig maximisation 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
benzyl alcohol 100-51-6	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		equivalent or similar to OECD Guideline 471 (Bacterial Reverse Mutation Assay)
benzyl alcohol 100-51-6	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		EU Method B.13/14 (Mutagenicity)
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)
2-piperazin-1-ylethylamine 140-31-8	negative negative negative	bacterial reverse mutation assay (e.g Ames test) DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro mammalian cell gene mutation assay	with and without with and without with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay) not specified not specified
2-piperazin-1-ylethylamine 140-31-8	negative	intraperitoneal		mouse	not specified
4-tert-butylphenol 98-54-4	negative	bacterial reverse mutation assay (e.g Ames test)	with and without		OECD Guideline 471 (Bacterial Reverse Mutation Assay)
4-tert-butylphenol 98-54-4	negative	intraperitoneal		mouse	OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)

Repeated dose toxicity:

Hazardous components CAS-No.	Result	Route of application	Exposure time / Frequency of treatment	Species	Method
benzyl alcohol 100-51-6	NOAEL=400 mg/kg	oral: gavage	13 weeksonce daily, 5 days/week	rat	equivalent or similar to OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	NOAEL=< 60 mg/kg	oral: drinking water	13 weeks	rat	OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity in Rodents)
2-piperazin-1-ylethylamine 140-31-8	NOAEL=2000 ppm	oral: drinking water	>= 28 ddaily	rat	OECD Guideline 422 (Combined Repeated Dose Toxicity Study with the Reproduction / Developmental Toxicity Screening Test)
4-tert-butylphenol 98-54-4	LOAEL=>= 200 mg/kg	oral: gavage	daily	rat	not specified

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
1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched 68479-04-9	LC50	0.52 mg/l	Fish	96 h	other:	OECD Guideline 203 (Fish, Acute Toxicity Test)
benzyl alcohol 100-51-6	LC50	460 mg/l	Fish	96 h	Pimephales promelas	EPA OPP 72-1 (Fish Acute Toxicity Test)
benzyl alcohol 100-51-6	EC50	230 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
benzyl alcohol 100-51-6	EC50	770 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
benzyl alcohol 100-51-6	NOEC	310 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
benzyl alcohol 100-51-6	EC10	658 mg/l	Bacteria	17 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	LC50	110 mg/l	Fish	96 h	Leuciscus idus	EU Method C.1 (Acute Toxicity for Fish)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	EC50	23 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	EC10	11.2 mg/l	Algae	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	EC50	> 50 mg/l	Algae	72 h	Desmodesmus subspicatus	EU Method C.3 (Algal Inhibition test)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	EC10	1,120 mg/l	Bacteria	18 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-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	> 100 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	EC50	46.7 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	NOEC	6.44 mg/l	Algae	72 h	Pseudokirchneriella subcapitata	OECD Guideline 201 (Alga, Growth Inhibition Test)
2,4,6-tris(dimethylaminomethyl)phenol	EC0	27 mg/l	Bacteria	16 h	Pseudomonas putida	DIN 38412, part 8 (Pseudomonas Zellvermehrungshe

90-72-2						mm-Test)
2-piperazin-1-ylethylamine 140-31-8	LC50	> 100 mg/l	Fish	96 h	Salmo gairdneri (new name: Oncorhynchus mykiss)	OECD Guideline 203 (Fish, Acute Toxicity Test)
2-piperazin-1-ylethylamine 140-31-8	EC50	32 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
2-piperazin-1-ylethylamine 140-31-8	NOEC	31 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-piperazin-1-ylethylamine 140-31-8	EC50	495 mg/l	Algae	72 h	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-piperazin-1-ylethylamine 140-31-8	EC10	100 mg/l	Bacteria	17 h		not specified
4-tert-butylphenol 98-54-4	LC50	5.14 mg/l	Fish	96 h	Pimephales promelas	EU Method C.1 (Acute Toxicity for Fish)
4-tert-butylphenol 98-54-4	NOEC	> 0.01 - 0.1 mg/l	Fish	128 d	Pimephales promelas	OECD Guideline 210 (fish early lite stage toxicity test)
4-tert-butylphenol 98-54-4	EC50	4.8 mg/l	Daphnia	48 h	Daphnia magna	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
4-tert-butylphenol 98-54-4	EC50	11.2 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
4-tert-butylphenol 98-54-4	NOEC	0.32 mg/l	Algae	72 h	Scenedesmus subspicatus (new name: Desmodesmus subspicatus)	DIN 38412-09
4-tert-butylphenol 98-54-4	EC50	> 10 mg/l	Bacteria	3 h	activated sludge of a predominantly domestic sewage	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)

Persistence and degradability:

Hazardous components CAS-No.	**Result**	**Route of application**	**Degradability**	**Method**
benzyl alcohol 100-51-6	readily biodegradable	aerobic	92 - 96 %	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	not readily biodegradable.	aerobic	8 %	EU Method C.4-A (Determination of the "Ready" BiodegradabilityDissolved Organic Carbon (DOC) Die-Away Test)
2,4,6-tris(dimethylaminomethyl)phenol 90-72-2	not readily biodegradable.	aerobic	4 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
2-piperazin-1-ylethylamine 140-31-8	under test conditions no biodegradation observed	aerobic	0 %	OECD Guideline 301 D (Ready Biodegradability: Closed Bottle Test)
4-tert-butylphenol 98-54-4	readily biodegradable, but failing 10-day window	aerobic	60 %	OECD Guideline 301 F (Ready Biodegradability: Manometric Respirometry Test)

Bioaccumulative potential / Mobility in soil:

Hazardous components CAS-No.	LogPow	Bioconcentration factor (BCF)	Exposure time	Species	Temperature	Method

benzyl alcohol 100-51-6	1.05				20 °C	EU Method A.8 (Partition Coefficient)
3- Aminomethyl-3,5,5-trimethylcyclohexylamine 2855-13-2	0.99				23 °C	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask 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)
2-piperazin-1-ylethylamine 140-31-8	-1.48					OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
4-tert-butylphenol 98-54-4		20 - 48	56 d	Cyprinus carpio		OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
4-tert-butylphenol 98-54-4	3				23 °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: After use, tubes, cartons and bottles containing residual product should be disposed of as chemically contaminated waste in an authorised legal land fill site or incinerated. Disposal must be made according to official regulations.

SECTION 14. TRANSPORT INFORMATION

Land Transport:

UN no.: 2735
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine,1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched)
Class or division: 8
Packing group: III

Marine transport IMDG:

UN no.: 2735
Proper shipping name: AMINES, LIQUID, CORROSIVE, N.O.S. (Isophoronediamine,1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched)
Class or division: 8
Packing group: III
EmS: F-A ,S-B
Seawater pollutant: Marine pollutant

Air transport IATA:

UN no.: 2735
Proper shipping name: Amines, liquid, corrosive, n.o.s. (Isophoronediamine,1,3-Propanediamine, N-[3-(tridecyloxy)propyl]-, branched)
Class or division: 8
Packing group: III
Packing instructions (passenger) 852
Packing instructions (cargo) 856

SECTION 15. REGULATORY INFORMATION

HSNO Approval Number: HSR002658

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

Disclaimer:

The percentage weight (% w/w) of ingredients is not to be taken as a specification guaranteed by Henkel New Zealand Limited, but only as an approximate guide to the content of hazardous ingredients in the material. The information contained herein does not constitute a guarantee by Henkel New Zealand Limited concerning the properties of the material.
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