

SAFETY DATA SHEET

CODE: HP33

ISSUE DATE: 09/10/2024 REVISION: 1.1



adhesivetech

1.0 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE SUPPLIER

Product Name:	HP33 Epoxy Hardener
Product Code:	HP33
Recommended use:	Used in conjunction with epoxy resin for adhesive and composites applications.
Supplier:	Adhesive Technologies NZ Limited
Street Address:	17 Corban Avenue, Henderson, Auckland
Telephone Number:	0064 9 838 6961 (8.00am to 5.00pm, Monday to Friday)
Facsimile:	0064 9 836 4849
Web Address	http://www.adhesivetechnologies.co.nz/
Emergency Telephone:	0064 3 479 7248 (From overseas)
National Poison Information Centre	0800 POISON (764 766) (within New Zealand)
New Zealand Fire Service	111
Date of issue	09/10/2024
Version	1.1

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2.0 HAZARDS IDENTIFICATION

Hazard Classification

Acute Toxicity (oral):	Category 4
Acute toxicity (dermal):	Category 5
Acute Toxicity (inhalation – dust & mist):	Category 4
Skin Sensitisation:	Category 1
Specific Target Organ Toxicity (repeat):	Category 1
Germ Cell Mutagenicity:	Category 2
Skin Corrosion/Irritation:	Category 1B
Serious Eye Damage/Eye Irritation:	Category 1
Aquatic Toxicity (chronic):	Category 2

For the full text of the H-Statements mentioned in this Section, see Section 16.



Signal Word: DANGER

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Precautionary Statements

Hazards Statement

H312 + H332	Harmful in contact with skin or if inhaled
H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H315	Causes skin irritation
H318	Causes serious eye damage
H317	May cause an allergic skin reaction
H341	Suspected of causing genetic defects
H373	May cause damage to organs through prolonged or repeated exposure
H402	Harmful to aquatic life
H412	Harmful to aquatic life with long lasting effects

Prevention

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P201	Obtain special instructions before use
P202	Do not handle until all safety precautions have been read and understood.
P260	Do not breathe dust/gas/mist/vapours
P261	Avoid breathing vapours
P264	Wash hands thoroughly after handling
P270	Do not eat, drink or smoke when using this product
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

Response

P310	Immediately call a POISON CENTER or doctor/physician.
P301 + P330 + P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P303 + P361 + P353 + P352	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Wash with plenty of water.
P304 + P340	IF INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P361	Take off immediately all contaminated clothing.
P362 + P364	Take off contaminated clothing and wash before reuse.
P333 + P313	If skin irritation or rash occurs: Get medical advice/attention.
P361	Remove/Take off immediately all contaminated clothing.
P363	Wash contaminated clothing before reuse.
P391	Collect spillage.

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Storage

P405 Store locked up.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.
Restricted to professional users.

Other hazards

3.0 COMPOSITION / INFORMATION ON INGREDIENTS

Substance / Mixture: Mixture

Hazardous Ingredients:

Chemical Name	CAS No.	Concentration (%)
Isophoronediamine (3-aminomethyl-3,5,5-trimethyl-cyclohexylamine)	2855-13-2	50-60
Triethylenetetramine	112-24-3	10-15
Phenol	108-95-2	20-25
Other non-hazardous components		to 100

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4.0 FIRST AID MEASURES

If poisoning occurs, contact a doctor or Poisons Information Centre Phone 0800 764 766.

General advice:

Move out of dangerous area. Call a POISON CENTRE or doctor/physician if exposed or you feel unwell. Show this safety data sheet to the doctor in attendance. Do not leave the victim unattended.

Ingestion:

Obtain medical attention. Do not give milk or alcoholic beverages. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

Inhalation:

Move to fresh air. Keep patient warm and at rest. If unconscious place in recovery position and seek medical advice

Skin Contact:

Remove contaminated clothing. If irritation develops, get medical attention. If on skin, rinse well with water. Wash contaminated clothing before re-use. If on clothes, remove clothes

Eye Contact:

Immediately flush eye(s) with plenty of water. Remove contact lenses.

Protect unharmed eye.

Notes to physician:

Symptoms: Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhoea) irritation (nose, throat, airways) confusion.

5.0 FIRE FIGHTING MEASURES

Hazardous Combustion Products

In case of fire, the following hazardous smoke fumes may be produced: Carbon Oxides, Nitrous gases, ammonia.

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Fire Fighting Procedures

Clear fire area of all non-emergency personnel. Isolate fire and deny unnecessary entry. Cool fire exposed containers with water. Irritating fumes are released in fire situations. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimize property damage. Do not allow material or run-off to enter waterways. Stay upwind, keep out of low areas.

Fire-fighting equipment

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves).

Avoid contact with this material during firefighting operations. If contact is likely, change to full chemical resistant firefighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location

HAZCHEM

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6.0 ACCIDENTAL RELEASE MEASURES

Emergency procedures:

Personal precautions: Evacuate personnel to safe areas. Remove all sources of ignition. Use personal protective equipment. Ensure adequate ventilation. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Comply with all applicable federal, state, and local regulations. Suppress (knock down) gases/vapours/mists with a water spray jet.

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Environmental precautions:

Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. If the product contaminates rivers and lakes or drains inform respective authorities. Methods for containment & Contain spillage, and then collect with noncombustible absorbent clean up: material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations

7.0 HANDLING & STORAGE

Handling advice:

Open drum carefully as content may be under pressure. Avoid formation of aerosol. Provide sufficient air exchange and/or exhaust in work rooms. Do not breathe vapours/dust. Do not smoke. Container hazardous when empty. Take precautionary measures against static discharges. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Smoking, eating and drinking should be prohibited in the application area. For personal protection see section 8. Dispose of rinse water in accordance with local and national regulations. Secondary operations, such as grinding and sanding, may reduce dust. Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards.

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Storage advice: Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Observe label precautions. No smoking. Electrical installations / working materials must comply with the technological safety standards.

Handling Precautions:

Avoid breathing vapors. Use in a well-ventilated area. Wear rubber gloves (nitrile or butyl) and chemical resistant apron. Wear chemical splash goggles. Do not reuse empty containers.

Storage Precautions: Keep container closed. Handle containers with care. Open slowly in order to control possible pressure release. Store in a cool, well ventilated area.

8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

Ingredients with workplace control measures

Component	CAS-No.	Value	Control parameters	Basis
Phenol	108-95-2	WES-STEL	2 ppm / 7.7mg/m ³	New Zealand. Workplace Exposure Standards for Atmospheric Contaminants
Triethylenetetramine	112-24-3		Contains no substances with occupational exposure limit values.	
Isophoronediamine (3-aminomethyl-3,5,5-trimethyl-cyclohexylamine)	2855-13-2		MAK sensitization of skin (SH)	

Biological occupational exposure limits

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Component	CAS-No.	Parameters	Value	Biological specimen	Basis
Phenol	108-95-2	Total phenol	100 mg/l	Urine	New Zealand. Biological Exposure Indices.
Triethylenetetramine	112-24-3		Contains no substances with occupational exposure limit values.		
Isophoronediamine (3-aminomethyl-3,5,5-trimethyl-cyclohexylamine)	2855-13-2		No data available		

Exposure controls (Phenol)

Appropriate engineering controls

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

Personal protective equipment (Phenol)

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Tightly fitting safety goggles

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves/

Full contact

Material: Viton®

Minimum layer thickness: 0.7 mm

Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

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Splash contact

Material: Viton®

Minimum layer thickness: 0.7 mm

Break through time: 480 min

Material tested: Vitoject® (KCL 890 / Aldrich Z677698, Size M)

Body Protection

Flame retardant antistatic protective clothing.

Respiratory protection

required when dusts/vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Control of environmental exposure

Do not let product enter drains.

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9.0 PHYSICAL & CHEMICAL PROPERTIES

Appearance	Liquid
Colour	Pale Straw Yellow
Odour	Sweet Odour
pH	Not available
Vapour pressure	82 Pa (4.5 mm Hg)
Vapour density	82 Pa (4.5 mm Hg)
Boiling Point	Not available
Melting/Freezing Point	Not available
Solubility (water)	Soluble
Specific Gravity/Density	0.98 gcm ⁻³ @ 25°C
Flash Point	110°C (closed cup)
Flammable Limits	LFL: Not available UFL: Not available
Auto-ignition	>300°C

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10.0 STABILITY & REACTIVITY

Chemical Stability

Stable under recommended storage conditions.

Conditions to avoid

Avoid temperatures above 300°C. Potentially violent decomposition can occur, causing gas generation and pressure increases in closed systems.

Materials to avoid

Reactive or incompatible with the following materials: oxidizing materials.

Slightly reactive or incompatible with the following materials: acids and alkalis.

Hazardous Decomposition Products

Decomposition products may include the following materials: carbon oxides, phenolics and water.

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11.0 TOXICOLOGICAL INFORMATION

Acute Toxicity:						
Hazardous Material:		Phenol		CAS #:	108-95-2	
			LD50 (mg/Kg)	LC50 (mg/L)	Animal / Time	
Oral:			317.0		Rat	
Inhalation:				900.0	Rat / 8 h	
Dermal:			630.0			
Chronic Toxicity: No additional information						
Corrosion / Irritation:						
Dermal:			Skin – Rabbit – Severe skin irritation – 24 h			
Ocular:			Eyes – Rabbit – Corrosion to eyes			
Sensitisation: No additional information						
Specific Target Organ Toxicity:			May cause damage to organs through prolonged or repeated exposure			
Carcinogenicity:			No additional information			
Mutagenicity:			No additional information			
Reproductive Toxicity:			No additional information			

Acute Health Effects

(Polyoxypropylenediamine)

Test	Species	Result	Exposure
LD50 Oral	Rat	2,885 mg/kg	-
LD50 Dermal	Rat	> 2,980 mg/kg	-

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Systemic Effects Except for Skin sensitization, repeated exposure is not likely to cause significant adverse effects.

Carcinogenicity No data is available on the product itself.

Mutagenicity: No data is available on the product itself.

Acute Toxicity:			
Hazardous Material	Triethylenetetramine	CAS #:	112-24-3
	LD50 (mg/Kg)	LC50 (mg/L)	Species / Time
Oral:	1150		Rat
Dermal:	1550		Rabbit
Chronic Toxicity: No additional information			
Corrosion / Irritation:			
Dermal:	Cause burns		
Ocular:	No additional information		
Sensitisation: May cause sensitization by skin contact			
Specific Target Organ Toxicity:	No additional information		
Carcinogenicity:	No additional information		
Mutagenicity:	No evidence of genotoxic effects in vivo		
Reproductive Toxicity:	No additional information		

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Acute Toxicity:				
Hazardous Material:	Isophoronediamine	CAS #:		2855-13-2
	(3-aminomethly-3,5,5-trimethyl- cyclohexylamine)			
		LD50 (mg/Kg)	LC50 (mg/L)	Species / Time
Oral:		1030		Rat
Dermal:		2000		Rat
Inhalation:		1.01*	5.01	Rat
Chronic Toxicity: No additional information				
Corrosion / Irritation:				
Dermal:		Corrosive (Rabbit)		
Ocular:		Corrosive (Rabbit)		
Sensitisation: Sesnsitisation after skin contact possible				
Specific Target Organ Toxicity:		Repeated or prolonged exposure may cause skin sensitisation.		
Carcinogenicity:		Study scientifically not justified		
Mutagenicity:		No mutagenic effect was found in various test with bacteria and mammalian cell culture. The substances was not mutagenic in a test with mammals.		

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Reproductive Toxicity:	Repeated oral uptake of the substance did not cause damage to reproductive organs.
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12.0 ECOLOGICAL INFORMATION

Ecotoxicity:			
Hazardous Material:	Phenol	CAS #:	108-95-2
	LC50 (mg/L)	EC50 (mg/L)	Time
Leuciscus idus (Golden orfe)	14.0 – 25.0		48 h
Carassius auratus (goldfish)	36.1 – 68.8		96 h
Daphnia magna (Water flea)		56.0	48 h
Chlorella vulgaris (Fresh water algae)		370.0	96 h
Persistence and degradability: Readily biodegradable. Phenol, Liquified: Half – life: day 15 hours, night 12 minutes			
Bioaccumulative potential:			
Mobility in soil: Mobile in soil and water			
Other adverse effects:			
Ecotoxicity:			
Hazardous Material:	Isophoronediamine (3-aminomethyl-3,5,5-trimethyl- cyclohexylamine)	CAS #:	2855-13-2
	LC50 (mg/L)	EC50 (mg/L)	Time
Leuciscus idus (Golden orfe)	110.0		96 h
Daphnia magna (Water flea)		23.0	48 h
Desmodemus subspicatus		37.0	72 h

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(previous name: Scenedesmus subspicatus)			
Persistence and degradeability: No data available			

Bioaccumulative potential: No data available.			
Mobility in soil: No data available.			
Other adverse effects: No data available.			

Ecotoxicity:			
Hazardous Material:	Triethylenetetramine	CAS #:	112-24-3
	LC50 (mg/L)	EC50 (mg/L)	Time
Pimphales promelas (fathead minnow)	>100.0		96 h
Daphnia magna (Water flea)		>10.0 – 100.0	48 h
Pseudokirchneriella subcapitata (green algae)		>10.0 – 100.0	72 h
Persistence and degradeability: Not readily biodegradable.			
Bioaccumulative potential: No data available			
Mobility in soil: Immobile			
Other adverse effects: Biochemical Oxygen Demand (BOD) no data available			

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(Polyoxypropylenediamine)

Ecotoxicity

Material is toxic to aquatic organisms on an acute basis

	Species	Period	Result
LC50	Fresh water fish	96 h	>15 mg/L
LC50	Marine water fish	96 h	772.14 mg/L
EC50	Fresh water Daphnia	48 h	80 mg/L
EC50	Marine water Daphnia	48 h	418.34 mg/L
EC50	green algae	72 h	15 mg/L

Degradability

Under OECD guidelines this material cannot be considered as readily degradable.

Bioaccumulation

Moderate

$\text{Log } P_{ow} = 1.34$

Legacy HSNO Classification

9.1B (algal) Very ecotoxic in the aquatic environment

9.1 (crustacean) Harmful in the aquatic environment
C

9.3B Ecotoxic to terrestrial vertebrates

13.0 DISPOSAL CONSIDERATIONS

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal methods must follow all Federal, State/Provincial, and local laws and regulations.

FOR UNUSED AND UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: recycler, reclaimer, incinerator, or other destruction device.

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General information

The generation of waste should be minimised or avoided wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements. Care should be taken when handling emptied containers that have not been thoroughly cleaned or rinsed out. Empty containers or liners may retain some product residues and hence be potentially hazardous.

Disposal methods

Waste, residues, empty containers, discarded work clothes and contaminated cleaning materials should be collected in designated containers, labelled with their contents. Incineration or landfill should only be considered when recycling is not feasible. Do not discharge into drains or watercourses or onto the ground.

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14.0 TRANSPORTATION & REGULATORY INFORMATION

ROAD, RAIL, SEA AND AIR TRANSPORT

UN Number	2735
Proper Shipping name	Polyamines, liquid, corrosive, n.o.s. (mixture contains isophoronediamine)
DG Class	8
Packing Group	III
HAZCHEM code	2X
IMO/IMDG class	8
ICAO/IATA class	8
EMS code	F – A, S – B
Marine pollutant	Yes

15.0 REGULATORY INFORMATION

EPA Approval:	The HSNO Approval Number for this Group Standard is HSR002658.
Group Standard:	Surface Coatings and Colourants (Corrosive) Group Standard 2020
Poison Schedule	

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16.0 OTHER INFORMATION

References

<https://echa.europa.eu/information-on-chemicals/cl-inventory-databas>

<https://www.epa.govt.nz/database-search/chemical-classification-and-information-database-ccid/>

<https://www.epa.govt.nz/>

RCNZ Approved HSNO CoP Preparation of Safety Data Sheets

<https://www.epa.govt.nz/assets/Uploads/Documents/Hazardous-Substances/GHS2/Guide to Classifying Hazardous Substances in NZ.pdf>

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This version replaces all previous versions.

FOR FURTHER PRODUCT INFORMATION CALL ADHESIVE TECHNOLOGIES NZ LTD DURING BUSINESS HOURS

Product Information Manager (+64) 9 838 6961

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