

# SAFETY DATA SHEET

CODE: CAT101

ISSUE DATE: 26/02/2024 REVISION: 1.2



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## 1.0 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND THE SUPPLIER

<b>Product Name:</b>	CUROX® M-200 Peroxide Catalyst
<b>Product Code:</b>	CAT101
<b>Recommended use:</b>	Organic peroxide catalyst suitable for curing vinyl ester and polyester resin systems.
<b>Supplier:</b>	Adhesive Technologies NZ Limited
<b>Street Address:</b>	17 Corban Avenue, Henderson, Auckland
<b>Telephone Number:</b>	0064 9 838 6961 (8.00am to 5.00pm, Monday to Friday)
<b>Facsimile:</b>	0064 9 836 4849
<b>Web Address</b>	<a href="http://www.adhesivetechnologies.co.nz/">http://www.adhesivetechnologies.co.nz/</a>
<b>Emergency Telephone:</b>	0064 3 479 7248 (From overseas)
<b>National Poison Information Centre</b>	0800 POISON (764 766) (within New Zealand)
<b>New Zealand Fire Service</b>	111
<b>Date of issue</b>	26/02/2025
<b>Version</b>	1.2

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## 2.0 HAZARDS IDENTIFICATION

### Hazard Classification

<b>Organic Peroxides:</b>	Type D
<b>Flammable Liquids:</b>	Category 4
<b>Acute Toxicity (Oral):</b>	Category 4
<b>Acute Toxicity (inhalation – Vapours):</b>	Category 4
<b>Skin Corrosion/Skin Irritation:</b>	Category 1B
<b>Serious Eye Damage/Eye Irritation:</b>	Category 1
<b>Aquatic Toxicity (Chronic):</b>	Category 2

**Signal Word:** DANGER



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### Precautionary Statements

#### Health Hazards

- H227** Combustible liquid.
- H242** Heating may cause a fire.
- H302+H332** Harmful if swallowed or if inhaled
- H314** Causes severe skin burns and eye damage.
- H401** Toxic to aquatic life.
- H227** Combustible liquid.

### Precautionary Statements

#### Prevention

- P210** Keep away from heat/sparks/open flames/hot surfaces.  
No smoking.
- P220** Keep/Store away from clothing/ strong acids, bases, heavy metal salts and other reducing substances /combustible materials.
- P234** Keep only in original container.
- P261** Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
- P264** Wash skin thoroughly after handling.
- P270** Do not eat, drink or smoke when using this product.
- P271** Use only outdoors or in a well-ventilated area.
- P273** Avoid release to the environment.
- P280** Wear protective gloves/protective clothing/eye protection/face protection

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## Response

<b>P301 + P312 + P330</b>	IF SWALLOWED: Call a POISON
<b>P301 + P330 + P331</b>	CENTER or doctor/ physician if you feel unwell. Rinse mouth. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
<b>P303 + P361 + P353</b>	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
<b>P304 + P340 + P310</b>	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
<b>P305 + P351 + P338 + P310</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician.

## Storage

<b>P405</b>	Store locked up.
<b>P410</b>	Protect from sunlight.
<b>P411+P235</b>	Store at temperatures not exceeding < 30 °C/ < 86 °F. Keep cool.
<b>P420</b>	Store away from other materials.

## Disposal

<b>P501</b>	Dispose of contents/container to approved waste disposal plant.
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## 3.0 COMPOSITION / INFORMATION ON INGREDIENTS

**Substance / Mixture:** Mixture

**Chemical Nature:** Organic Peroxide

**Hazardous Ingredients:**

Chemical Name	CAS No.	Concentration (%)
dimethyl phthalate	131-11-3	$\geq 50$ - $< 55$
2-Butanone, peroxide	1338-23-4	$\geq 35$ - $< 40$
Butanone	78-93-3	$\geq 1$ - $< 5$
Hydrogen peroxide	7722-84-1	$\geq 1$ - $< 5$
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.

<b>General advice:</b>	Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.
<b>Emergency telephone number:</b>	Poisons Information Centre, New Zealand: 0800 764 766
<b>Inhalation:</b>	Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention immediately. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. If breathing is difficult, (trained personnel should) give oxygen. Delayed pulmonary oedema may occur. Get immediate medical advice/attention. Get medical attention immediately if symptoms occur. Aspiration into lungs can produce severe lung damage. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. IF exposed or concerned: Get medical advice/attention.
<b>Skin contact:</b>	Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Get immediate medical advice/attention. Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists. If symptoms persist, call a doctor. If skin irritation persists, call a doctor.

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**Eye contact:**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Keep eye wide open while rinsing. Do not rub affected area. Remove contact lenses, if present and easy to do. Continue rinsing. Get immediate medical advice/attention.

**Ingestion:**

Do NOT induce vomiting. Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person. Immediate medical attention is required. Call a doctor. **ASPIRATION HAZARD IF SWALLOWED - CAN ENTER LUNGS AND CAUSE DAMAGE.** If vomiting occurs spontaneously, keep head below hips to prevent aspiration.

**Self-protection of the first aider:**

Ensure that medical personnel are aware of the material(s) involved, take precautions to protect themselves and prevent spread of contamination. Wear personal protective clothing (see section 8). Avoid contact with skin, eyes or clothing. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. Use personal protective equipment as required. See section 8 for more information.

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## 5.0 FIRE FIGHTING MEASURES

### Suitable Extinguishing Media

Water spray  
Alcohol-resistant foam  
Carbon dioxide (CO<sub>2</sub>)  
Dry chemical

### Suitable extinguishing media:

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Water spray or fog is preferred; if water not available use dry chemical, CO<sub>2</sub> or regular foam. Flood fire area with water from a distance. Use water spray or fog; do not use straight streams. Move containers from fire area if you can do it without risk. Cool containers with flooding quantities of water until well after fire is out.

### Unsuitable extinguishing media

Do not use water jetstream

### Special protective actions for fire-fighters:

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment. Oxidiser. May ignite combustibles (wood paper, oil, clothing, etc.). Some may burn rapidly with flare burning effect. Do not move cargo or vehicle if cargo has been exposed to heat. Move containers from fire area if you can do it without risk. Fight fire from maximum distance or use unmanned hose holders or monitor nozzles. ALWAYS stay away from tanks engulfed in fire. For massive fire, use unmanned hose holders or monitor nozzles; if this is impossible withdraw from area and let fire burn.

### Hazchem Code:

2WE

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**Decomposition Temperature:**

SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the SADT. Contact with incompatible substances can cause decomposition below the SADT.

## 6.0 ACCIDENTAL RELEASE MEASURES

**Emergency Procedures:**

Evacuate personnel to safe areas.  
Only qualified personnel equipped with suitable protective equipment may intervene. Prevent unauthorised persons entering the zone.

**Methods and materials for containment and cleaning up:**

Soak up with inert absorbent material and dispose of as hazardous waste.  
Keep wetted with water.  
Confinement must be avoided.

**Personal Precautions:**

Never return spills in original containers for re-use.  
Use personal protective equipment.  
Wear respiratory protection.  
Ensure adequate ventilation.  
Remove all sources of ignition.

**Environmental Precautions:**

Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.  
Prevent product from entering drains.  
If the product contaminates rivers and lakes or drains inform respective authorities.

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## 7.0 HANDLING & STORAGE

**Precautions for Safe Handling:**

Advice on safe handling For personal protection see section 8.  
Avoid formation of aerosol.  
Do not breathe vapours or spray mist.  
Smoking, eating and drinking should be prohibited in the application area.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Open drum carefully as content may be under pressure.  
Dispose of rinse water in accordance with local and national regulations.  
Advice on protection against fire and explosion Use explosion protected equipment.  
Keep away from sources of ignition - No smoking.  
No sparking tools should be used.  
Keep away from reducing agents (e.g. amines), acids, alkalis and heavy metal compounds (e.g. accelerators, driers, metal soaps). Do not cut or weld on or near this container even when empty.  
Keep away from combustible material.

**Conditions for safe storage, including any incompatibilities:**

No smoking.  
Keep in a well-ventilated place.  
Electrical installations / working materials must comply with the technological safety standards. Keep only in original container.  
Store away from other materials.  
Maximum storage temperature : 25°C.  
Maximum storage temperature is for quality only.

**Storage Temperatures:**


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## 8.0 EXPOSURE CONTROLS / PERSONAL PROTECTION

### Respiratory protection

In the case of dust or aerosol formation  
use respirator with an approved filter.

### Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
dimethyl phthalate	131-11-3	TWA	5 mg/m <sup>3</sup>	AU OEL
		TWA	5 mg/m <sup>3</sup>	ACGIH
2-Butanone, peroxide	1338-23-4	Peak limit	0.2 ppm 1.5 mg/m <sup>3</sup>	AU OEL
		C	0.2 ppm	ACGIH
Butanone	78-93-3	STEL	300 ppm 890 mg/m <sup>3</sup>	AU OEL
		TWA	150 ppm 445 mg/m <sup>3</sup>	AU OEL
		TWA	200 ppm	ACGIH
		STEL	300 ppm	ACGIH
Hydrogen peroxide	7722-84-1	TWA	1 ppm 1.4 mg/m <sup>3</sup>	AU OEL
		TWA	1 ppm	ACGIH

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**Biological occupational exposure limits**

Components	CAS-No.	Control parameters	Biological specimen	Sam-pling time	Permissible concentration	Basis
Butanone	78-93-3	methyl ethyl ketone	Urine	End of shift (As soon as possible after exposure ceases)	2 mg/l	ACGIH BEI

**Exposure controls****Protective equipment****Appropriate engineering controls:**

Provide adequate ventilation. Personal, workplace environment or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Use process enclosures, local exhaust ventilation or other engineering controls as the primary means to minimize worker exposure. Personal protective equipment should only be used if worker exposure cannot be controlled adequately by the engineering control measures. Ensure control measures are regularly inspected and maintained. Ensure operatives are trained to minimize exposure.

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<b>Eye/face protection:</b>	Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. Wear tight-fitting, chemical splash goggles or face shield. If inhalation hazards exist, a full-face respirator may be required instead.
<b>Hand protection:</b>	<p>Chemical-resistant, impervious gloves complying with an approved standard should be worn if a risk assessment indicates skin contact is possible. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material.</p> <p>To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.</p>
<b>Other skin and body Protection:</b>	Appropriate footwear and additional protective clothing complying with an approved standard should be worn if a risk assessment indicates skin contamination is possible.
<b>Hygiene measures:</b>	Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke. Preventive industrial medical examinations should be carried out. Warn cleaning personnel of any hazardous properties of the product.

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**Respiratory protection:**

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Wear suitable mask. Ensure all respiratory protective equipment is suitable for its intended use and is 'CE'-marked. Check that the respirator fits tightly and the filter is changed regularly. Gas and combination filter cartridges should comply with European Standard EN14 387 and EN143. Full face mask respirators with replaceable filter cartridges should comply with European Standard EN136. Half mask and quarter mask respirators with replaceable filter cartridges should comply with European Standard EN140.

**Environmental exposure controls:**

Keep container tightly sealed when not in use. Emissions from ventilation or work

process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

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## 9.0 PHYSICAL & CHEMICAL PROPERTIES

<b>Appearance</b>	Liquid
<b>Colour</b>	Colourless, red
<b>Odour</b>	Characteristic
<b>pH</b>	No data available
<b>Melting point/freezing point</b>	No data available
<b>Boiling point/boiling range</b>	No data available
<b>Flash point</b>	Decomposition: Decomposes below the boiling point.
<b>Flammability (solid, gas)</b>	ca. 68 °C
<b>Upper explosion limit</b>	Not applicable
<b>Lower explosion limit</b>	Not applicable
<b>Vapour pressure</b>	No data available
<b>Density</b>	ca. 1.15 g/cm <sup>3</sup> (20 °C)
<b>Solubility(ies)</b>	500 hPa (55 °C)
<b>Water solubility</b>	slightly soluble
<b>Solubility in other solvents</b>	Solvent: Phthalates
<b>Partition coefficient: n-octanol/water</b>	Description: completely miscible
<b>Self-Accelerating decomposition temperature (SADT)</b>	No data available
<b>Viscosity</b>	60 °C Method: UN-Test H.4

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**Viscosity, dynamic**

**Explosive properties**

**Oxidizing properties**

SADT-Self Accelerating

Decomposition

Temperature. Lowest

temperature at which the

tested package size will

undergo a self-accelerating

decomposition reaction.

No data available

Not explosive

The substance or mixture is  
not classified as oxidizing.

Organic peroxide

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## 10.0 STABILITY & REACTIVITY

<b>Reactivity</b>	Stable under recommended storage conditions.
<b>Chemical stability</b>	Stable under recommended storage conditions.
<b>Possibility of hazardous reactions</b>	Vapours may form explosive mixture with air.
<b>Conditions to avoid</b>	Protect from contamination. Contact with incompatible substances can cause decomposition at or below SADT. Heat, flames and sparks. Avoid confinement.
<b>Incompatible materials</b>	Accelerators, strong acids and bases, heavy metals and heavy metal salts, reducing agents
<b>Hazardous decomposition products</b>	Irritant, caustic, flammable, noxious/toxic gases and vapours can develop in the case of fire and decomposition

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## 11.0 TOXICOLOGICAL INFORMATION

### Acute toxicity

Harmful if swallowed or if inhaled

#### Product:

**Acute oral toxicity** Acute toxicity estimate: 1,22 mg/kg  
Method: Calculation method

**Acute inhalation toxicity** Acute toxicity estimate: 3.59 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method

**Components:** dimethyl phthalate

**Acute oral toxicity** LD50 (Rat): > 5,000 mg/kg

**Acute inhalation toxicity** (Rat): > 10.4 mg/l  
Exposure time: 6 h  
Test atmosphere: vapour  
Remarks: No mortality observed at this dose.

**Acute dermal toxicity** LD50 (Rabbit): > 12,000 mg/kg

**Components:** 2-Butanone, peroxide

**Acute oral toxicity** Acute toxicity estimate: 500 mg/kg  
Method: Expert judgement

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**Acute inhalation toxicity** Acute toxicity estimate: 1.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: Expert judgement

Assessment: The component/mixture is moderately toxic after short term inhalation.

Remarks: Based on data from similar materials

**Acute dermal toxicity** Acute toxicity estimate: 2,500 mg/kg

Method: Expert judgement

**Components:** Butanone

**Acute oral toxicity** LD50 (Rat): 2,193 mg/kg

Method: OECD Test Guideline 423

**Acute dermal toxicity** LD50 (Rabbit): > 5,000 mg/kg

Method: OECD Test Guideline 402

**Components:** Hydrogen peroxide:

**Acute oral toxicity** LD50 (Rat, male): 1,026 mg/kg

Method: OECD Test Guideline 401

**Acute inhalation toxicity** LC50 (Rat): > 0.17 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Assessment: The component/mixture is moderately toxic after short term inhalation.

Remarks: Based on harmonised classification in EU regulation 1272/2008, Annex VI

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**Acute dermal toxicity** LD50 (Rabbit): > 6,500 mg/kg

Skin corrosion/irritation Causes severe burns.

**Product:**

Remarks: Extremely corrosive and destructive to tissue.

**Components:** dimethyl phthalate

Species: Rabbit

Method: Draize Test

Result: No skin irritation

2-Butanone, peroxide:

Species: Rabbit Result: Causes burns.

**Components:** Butanone

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

**Components:** Hydrogen peroxide

Result: Corrosive after 3 minutes or less of exposure

Serious eye damage/eye irritation Causes serious eye damage.

**Product:**

Remarks: May cause irreversible eye damage.

**Components:** dimethyl phthalate

Species: Rabbit

Result: No eye irritation

Method: OECD Test Guideline 405

2-Butanone, peroxide:

Result: Irreversible effects on the eye

**Components:** Butanone

Species: Rabbit

Result: Eye irritation

Method: OECD Test Guideline 405

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**Components:** Hydrogen peroxide

Result: Irreversible effects on the eye

Respiratory or skin sensitisation

Skin sensitisation

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

**Components:** dimethyl phthalate

Species: Mouse

Method: OECD Test Guideline 429

Result: Does not cause skin sensitisation.

**Components:** 2-Butanone, peroxide

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

**Assessment:** Harmful if swallowed., Harmful if inhaled.

**Components:** Butanone

Exposure routes: Skin contact Species: Guinea pig

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Chronic toxicity

Germ cell mutagenicity

Not classified based on available information.

**Components:** dimethyl phthalate

**Genotoxicity in vitro**

Method: OECD Test Guideline 471

Result: negative

Method: OECD Test Guideline 473

Result: negative

Method: OECD Test Guideline 476

Result: positive

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## Genotoxicity in vivo

Test Type: Chromosomal  
aberration Species: Rat  
Application Route: Intraperitoneal  
Result: negative  
Test Type: Micronucleus test  
Species: Mouse  
Application Route: Intraperitoneal  
injection  
Result: negative

**Components:** 2-Butanone, peroxide

## Genotoxicity in vitro

:Method: OECD Test Guideline 473  
Result: negative  
Method: OECD Test Guideline 471  
Result: negative  
:Method: OECD Test Guideline 476  
Result: negative

**Components:** Butanone:

## Genotoxicity in vitro

:Method: OECD Test Guideline 471  
Result: negative  
:Method: OECD Test Guideline 476  
Result: negative  
Method: OECD Test Guideline 473  
Result: negative

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**Genotoxicity in vivo**

Species: Mouse  
Application Route: Intraperitoneal  
Method: OECD Test Guideline 474  
Result: negative

**Components:** Hydrogen peroxide

**Genotoxicity in vitro**

Test Type: Ames test  
Result: negative

**Genotoxicity in vivo**

Test Type: Mammalian erythrocyte micronucleus test  
(in vivo cytogenetic assay) Species: Mouse  
Result: negative

**Carcinogenicity:** Not classified based on available information.

**Components:** dimethyl phthalate

Species: Rat  
Application Route: Skin contact  
Method: OECD Test Guideline 451  
Result: negative  
Remarks: Based on data from similar materials

**Components:** 2-Butanone, peroxide

Remarks: This information is not available.  
Reproductive toxicity  
Not classified based on available information.

**Components:** dimethyl phthalate

**Effects on fertility**

Species: Rat  
Application Route: oral (gavage)  
Method: OECD Test Guideline 440  
Result: negative

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## Effects on foetal development

Species: Rat  
Application Route: Ingestion  
General Toxicity Maternal: NOAEL: 840 mg/kg body weight  
Developmental Toxicity: NOAEL: 3,570 mg/kg body weight  
Method: OECD Test Guideline 414

**Components:** 2-Butanone, peroxide

## Effects on fertility

Species: Rat  
Application Route: oral (gavage)  
General Toxicity - Parent: NOAEL: 50 mg/kg body weight  
Method: OECD Test Guideline 421  
Result: negative

**Components:** Butanone

## Effects on fertility

Species: Rat  
Application Route: oral (drinking water)  
General Toxicity - Parent: NOAEL: 10,000 mg/l  
General Toxicity F1: NOAEL: 10,000 mg/l  
Method: OECD Test Guideline 416  
Remarks: Based on data from similar materials

Species: Rat  
Application Route: oral (drinking water)  
General Toxicity - Parent: LOAEL: 20,000 mg/l  
Method: OECD Test Guideline 416

Remarks: Based on data from similar materials

## Effects on foetal development:

Species: Rat  
Application Route: Inhalation  
General Toxicity Maternal: NOAEC: ca. 1,002 mg/kg body weight  
Teratogenicity: NOAEC Parent: ca. 1,002 mg/kg body weight

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Method: OECD Test Guideline 414

Result: negative

**STOT - single exposure:** Not classified based on available information.

**Components:** Hydrogen peroxide

Assessment: May cause respiratory irritation.

STOT - repeated exposure

Not classified based on available information.

Repeated dose toxicit

**Components:** dimethyl phthalate

Species: Rat

NOAEL: 770 mg/kg

Application Route: Oral

Exposure time: 16 w

Method: OECD Test Guideline 408

**Components:** 2-Butanone, peroxide

Species: Rat

NOAEL: 200 mg/kg

Application Route: oral (gavage)

Exposure time: 28 d

Method: OECD Test Guideline 407

Repeated dose toxicity - : Harmful if swallowed., Harmful if inhaled.

Assessment

**Components:** Hydrogen peroxide

Species: Mouse

Application Route: Ingestion

Exposure time: 90 d

Symptoms: No adverse effects

**Aspiration toxicity:** Not classified based on available information.

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**Components:** dimethyl phthalate

No aspiration toxicity classification  
Further information

**Product:**

Remarks: No data available

## 12.0 ECOLOGICAL INFORMATION

### Ecotoxicity Components:

**Components:** dimethyl phthalate

Toxicity to fish

Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae

Toxicity to fish (Chronic toxicity)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)

Toxicity to microorganisms

**Components:** 2-Butanone, peroxide

Toxicity to fish

Toxicity to daphnia and other

aquatic invertebrates

Toxicity to algae LC50 (Pimephales promelas (fathead minnow)): 39 mg/l Exposure time: 96 h LC50 (Daphnia magna (Water flea)): > 52 mg/l Exposure time: 48 h

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EC50 (Desmodesmus subspicatus (green algae)): 260 mg/l Exposure time: 72 h  
 NOEC (Oncorhynchus mykiss (rainbow trout)): 11 mg/l Exposure time: 102 Method:  
 OECD Test Guideline 210.

LOEC (Oncorhynchus mykiss (rainbow trout)): 24 mg/l Exposure time: 102 d  
 Method: OECD Test Guideline 210 NOEC (Daphnia magna (Water flea)): 9.6 mg/l  
 Exposure time: 21 d LOEC (Daphnia magna (Water flea)): 23 mg/l Exposure time: 21  
 d EC50: 4,100 mg/l Exposure time: 0.5 h Method: OECD Test Guideline 209

LC50 (Poecilia reticulata (guppy)): 44.2 mg/l Exposure time: 96 h Method: OECD Test  
 Guideline 203 NOEC (Poecilia reticulata (guppy)): 18 mg/l Exposure time: 96 h  
 Method: OECD Test Guideline 203

EC50 (Daphnia magna (Water flea)): 39 mg/l Exposure time: 48 h Method: OECD Test  
 Guideline 202 NOEC (Daphnia magna (Water flea)): 26.7 mg/l Method: OECD Test  
 Guideline 202

EC50 (Pseudokirchneriella subcapitata (green algae)): 5.6 mg/l Exposure time: 72  
 h 15 / 20 Method: OECD Test Guideline 201 NOEC (Pseudokirchneriella  
 subcapitata (green algae)): 2.1 mg/l Exposure time: 72 h Method: OECD Test  
 Guideline 201

**Toxicity to microorganisms** EC50 (Bacteria): 48 mg/l Exposure time: 0.5 h Method: OECD Test  
 Guideline 209

**Components:** Butanone

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 2,993 mg/l  
 Exposure time: 96 h Method: OECD Test Guideline 203

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 308  
 mg/laquatic invertebrates Exposure time: 48 h Method: OECD Test Guideline 202

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**Toxicity to algae:** EC50 (Pseudokirchneriella subcapitata (green algae)): 2,029 mg/l Exposure time: 96 h Method: OECD Test Guideline 201

**Toxicity to microorganisms:** NOEC (Pseudomonas putida): 1,150 mg/l Exposure time: 16 h Method: DIN 38 412 Part 8

**Components:** Hydrogen peroxide

**Toxicity to fish:** LC50 (Pimephales promelas (fathead minnow)): 16.4 mg/l Exposure time: 96 h

**Toxicity to daphnia and other:** LC50 (Daphnia pulex (Water flea)): 2.4 mg/l aquatic invertebrates Exposure time: 48 h

**Toxicity to algae:** EC50 (Skeletonema costatum (marine diatom)): 1.38 mg/l Exposure time: 72 h NOEC (Skeletonema costatum (marine diatom)): 0.63 mg/l Exposure time: 72 h

**Toxicity to daphnia and other :** NOEC (Daphnia magna (Water flea)): 0.63 mg/l aquatic invertebrates (Chronic toxicityExposure time: 21d)

**Toxicity to microorganisms:** EC50: Method: OECD Test Guideline 209 Persistence and degradability

**Components:** dimethyl phthalate

## Biodegradability

**Components:** 2-Butanone, peroxide

Result: Readily biodegradable. Method: OECD Test Guideline 301E

## Biodegradability

**Components:** Butanone

Result: Readily biodegradable. Method: OECD Test Guideline 301D

## Biodegradability

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**Components:** Hydrogen peroxide

Result: Readily biodegradable.

Method: OECD Test Guideline 301D

## **Biodegradability**

## **Bioaccumulative potential**

**Components:** dimethyl phthalate

Result: Readily biodegradable.

## **Bioaccumulation**

Bioconcentration factor (BCF): 57

Method: OECD Test Guideline 305

**Partition coefficient:** n-octanol/water

**Components:** 2-Butanone, peroxide: : log Pow: 1.54

**Partition coefficient:** n-octanol/water

**Components:** Butanone log Pow: < 0.3 (25 °C)

**Partition coefficient:** n-octanol/water

**Components:** Hydrogen peroxide log Pow: 0.3 (40 °C)

**Partition coefficient:** n-octanol/water

## **Mobility in soil**

No data available Other adverse effects

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**Product:**

log Pow: -1.57 Remarks: Calculation

**Additional ecological information**

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Toxic to aquatic life.

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## 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.

### 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.

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## 14.0 TRANSPORTATION &amp; REGULATORY INFORMATION

## Road, Rail, Sea and Air Transport

UN Number	3105
Proper Shipping Name	ORGANIC PEROXIDE TYPE D, LIQUID (contains mixture of dimethyl phthalate, 2-Butanone, peroxide, Butanone, Hydrogen peroxide)
DG Class	5.2
Subsidiary DG Class	
Packing Group	
EPG Number	5K1
IERG Number	32
IATA/ICAO Sub Risk	HEAT
HAZCHEM Code	2WE
Marine Pollutant	No
EmS Code	F-J, S-R
ADR transport category:	2
Emergency Action Code:	2W
Hazard Identification Number:	539
(ADR/RID) Tunnel restriction code:	(D)
Packing Instructions (Cargo Aircraft)	570
Packing Instructions (Passanger Aircraft)	570

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Hazard Diamonds



## 15.0 REGULATORY INFORMATION

### Safety, health and environmental regulations/legislation specific for the substance or mixture

#### National regulations

Health and Safety at Work etc. Act 1974 (as amended).  
The Chemicals (Hazard Information and Packaging for Supply) Regulations 2009 (SI 2009 No. 716).  
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].  
EH40/2005 Workplace exposure limits.

#### EU legislation

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (as amended).

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### EPA Approval:

The HSNO Approval Number for this Group Standard is HSR001376

#### Group Standard:

Flammable substances, oxidising substances and organic peroxides (August 2022)

#### Chemical safety assessment

No chemical safety assessment has been carried out.

#### Contact Person/Point:

An electronic version of this SDS is available at [adhesivetech.co.nz](http://adhesivetech.co.nz)

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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](https://www.epa.govt.nz/assets/Uploads/Documents/Hazardous-Substances/GHS2/Guide_to_Classifying_Hazardous_Substances_in_NZ.pdf)

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**Product Information Manager** (+64) 9 838 6961

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