



Safety Data Sheet

Infosafe No IMD8Y	Issue Date : May 2016	ISSUED by IMCDAST
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Product Name **Butanox M-50**

Classified as hazardous

1. Identification

GHS Product Identifier Butanox M-50

Product Code 4828212

Company Name IMCD Australia Limited (ABN 44 000 005 578)

Address 1st Floor, 372 Wellington Road Mulgrave
Victoria 3170 Australia

Telephone/Fax Number Tel: (03)8544 3100 (Business hours)
Fax: (03)8544 3299

Emergency phone number 1800 625 526

Emergency Contact Address NEW ZEALAND
Emergency Response: 0800 500 288
IMCD New Zealand Limited
459 Great South Road
Penrose, Auckland
Ph: (09) 582 0250
Fax (09) 525 0030

E-mail Address reg@imcd.com.au

Recommended use of the chemical and restrictions on use Curing agent.

Other Names	<u>Name</u>	<u>Product Code</u>
	Butanox M-50	4911178
	Butanox M-50	4911290
	Butanox M-50	4912525
	Butanox M-50	4912732
	Butanox M-50	5404165

Additional Information It is the user's responsibility to determine the suitability of this product for their applications and their methods of use.

Other Information THIS SDS SUMMARISES OUR BEST KNOWLEDGE OF THE HEALTH AND SAFETY HAZARD INFORMATION OF THE PRODUCT AND HOW TO SAFELY HANDLE AND USE THE PRODUCT IN THE WORKPLACE. EACH USER MUST REVIEW THIS SDS IN THE CONTEXT OF HOW THE PRODUCT WILL BE HANDLED AND USED IN THE WORKPLACE.

IF CLARIFICATION OR FURTHER INFORMATION IS NEEDED TO ENSURE THAT AN APPROPRIATE RISK ASSESSMENT CAN BE MADE, THE USER SHOULD CONTACT THIS COMPANY SO WE CAN ATTEMPT TO OBTAIN ADDITIONAL INFORMATION FROM OUR SUPPLIERS.

OUR RESPONSIBILITY FOR PRODUCTS SOLD IS SUBJECT TO OUR STANDARD TERMS AND CONDITIONS, A COPY OF WHICH IS SENT TO OUR CUSTOMERS AND IS ALSO AVAILABLE ON REQUEST.

2. Hazard Identification

GHS classification of the substance/mixture Classified as Hazardous according to the Globally Harmonised System of Classification and labelling of Chemicals (GHS) including Work, Health and Safety regulations, Australia

Acute Toxicity - Inhalation: Category 4
 Acute Toxicity - Oral: Category 4
 Eye Damage/Irritation: Category 1
 Hazardous to the Aquatic Environment - Acute Hazard: Category 2
 Organic Peroxides: Type D
 Skin Corrosion/Irritation: Category 1B


Signal Word (s) DANGER

Hazard Statement (s) H242 Heating may cause a fire.

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Pictogram (s)	<p>H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage. H332 Harmful if inhaled. H401 Toxic to aquatic life. Flame, Corrosion, Exclamation mark</p>
	
Precautionary statement – Prevention	<p>P210 Keep away from heat/sparks/open flames/hot surfaces. – No smoking. P220 Keep/Store away from clothing//combustible materials. P234 Keep only in original container. P260 Do not breathe dust/fume/gas/mist/vapours/spray. P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P264 Wash contaminated 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.</p>
Precautionary statement – Response	<p>P301+P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. P304+P340 IF INHALED: Remove victim 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. P310 Immediately call a POISON CENTER or doctor/physician. P312 Call a POISON CENTER or doctor/physician if you feel unwell. P330 Rinse mouth. P363 Wash contaminated clothing before reuse. P405 Store locked up.</p>
Precautionary statement – Storage	<p>P410 Protect from sunlight. P411+P235 Store at temperatures not exceeding Keep cool. P420 Store away from other materials.</p>
Precautionary statement – Disposal	<p>P501 Dispose of contents and container according to local regulations.</p>

3. Composition/information on ingredients

Ingredients	Name	CAS	Proportion
	Dimethylphthalate	131-11-3	60-100 %
	Methyl ethyl ketone peroxide	1338-23-4	30-37 %
	Methyl ethyl ketone	78-93-3	<10 %

4. First-aid measures

First Aid Measures	You should call The Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. The number is 13 1126 from anywhere in Australia (0800 764 766 in New Zealand) and is available at all times. Have the SDS with you when you call.
Inhalation	If breathed in, move person into fresh air. Consult a physician after significant exposure.

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Ingestion	Clean mouth with water and drink afterwards plenty of water. Never give anything by mouth to an unconscious person.
Skin	Take off contaminated clothing and shoes immediately. Rinse immediately with plenty of water. Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
Eye contact	Rinse with plenty of water. Get medical attention immediately. Continue to rinse during transport. Remove contact lenses. Protect unharmed eye. Keep eye wide open while rinsing. Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
Advice to Doctor	Treat symptomatically.
Most important symptoms/effects, acute and delayed	Harmful if swallowed or if inhaled. Causes serious eye damage. Causes severe burns.

5. Fire-fighting measures

Fire Fighting Measures	In the event of fire, wear self-contained breathing apparatus. Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable Extinguishing Media	Halons.
Hazards from Combustion Products	Fire will produce smoke containing hazardous combustion products (see section 10).
Specific hazards arising from the chemical	CAUTION: reignition may occur. Supports combustion. Water spray may be ineffective unless used by experienced firefighters. Heating may cause decomposition with release of toxic fumes.
Hazchem Code	2WE

6. Accidental release measures

Methods and materials for containment and cleaning up	Keep wetted with water. Soak up with inert absorbent material and dispose of as hazardous waste. Confinement must be avoided. Never return spills in original containers for re-use.
Personal Precautions	Use personal protective equipment. Wear respiratory protection. Ensure adequate ventilation. Remove all sources of ignition. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.
Environmental Precautions	Prevent product from entering drains. If the product contaminates rivers and lakes or drains inform respective authorities.
Other Information	CAUTION: reignition may occur. Vapours are heavier than air and may spread along floors. Vapours may travel to a source of ignition and flash back. Evacuate personnel to safe area.

7. Handling and storage

Precautions for 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. 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, alkalies and heavy metal compounds (e.g. accelerators,
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Conditions for safe storage, including any incompatibilities	driers, metal soaps). Do not cut or weld on or near this container even when empty. Keep away from combustible material. No smoking. Electrical installations / working materials must comply with the technological safety standards. Keep only in original container. Store away from other materials.
Handling	It is recommended to use electrical equipment of temperature group T3.
Temperatures	However, autoignition can never be excluded.
Storage	Maximum storage temperature : 25°C.
Temperatures	

8. Exposure controls/personal protection

Exposure Controls, Personal Protection	The following Australian and New Zealand Standards will provide general advice regarding safety clothing and equipment: Respiratory equipment: AS/NZS 1715, Protective Gloves: AS 2161, Industrial Clothing: AS2919, Industrial Eye Protection: AS1336 and AS/NZS 1337, Occupational Protective Footwear: AS/NZS2210.
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Occupational exposure limit values	Name	STEL		TWA		Footnote
		mg/m3	ppm	mg/m3	ppm	
	Dimethylphthalate			5		
	Methyl ethyl ketone peroxide			1.5	0.2	Peak limitation
	Methyl ethyl ketone	890	300	445	150	
Appropriate engineering controls	Explosion proof ventilation recommended. Effective exhaust ventilation system. Ensure that eyewash stations and safety showers are close to the workstation location.					
Respiratory Protection	In the case of vapour or aerosol formation use a respirator with an approved filter. Filter A					
Eye Protection	Tightly fitting safety goggles					
Hand Protection	Wear face-shield and protective suit for abnormal processing problems. Butyl-rubber. Neoprene.					
Body Protection	Wear suitable protective clothing.					
Hygiene Measures	Handle in accordance with good industrial hygiene and safety practice. When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.					

9. Physical and chemical properties

Form	Liquid
Appearance	Clear, colourless.
Odour	Faint.
Melting Point	No data available
Solubility in Water	Partly miscible.
Solubility in Organic Solvents	Miscible with phthalates.
Specific Gravity	1.18 at 20°C
pH	Weakly acidic
Vapour Pressure	0.10 kPa at 84°C

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Coefficient Water/Oil Distr.	Not determined.
Viscosity	24mPa.s at 20°C
Flash Point	Above the SADT value
Flammability	No flash point was obtained, but the product may release flammable vapour. Decomposition products may be flammable.
Auto-Ignition Temperature	Test methd not applicable (see Section 7).
Explosion Limit - Upper	No data available.
Explosion Limit - Lower	No data available.
Explosion Properties	Not explosive.
Oxidising Properties	Not classified as oxidising.
Kinematic Viscosity	20.34 mm ² /s at 20 °C
Dynamic Viscosity	24 mPa.s at 20°C
Other Information	Active oxygen content: 8.8 - 9.0% Organic peroxide: 30 - 37% SADT: 60°C See also Section 10

10. Stability and reactivity

Reactivity	Stable under normal conditions.
Chemical Stability	Stable under recommended storage conditions.
Conditions to Avoid	Confinement must be avoided. Heat, flames and sparks.
Incompatible Materials	Rust, iron and copper. Contact with acids, alkalies, heavy metals and reducing agents will result in hazardous decomposition. Do not mix with peroxide accelerators. Use only stainless steel 316, PP, polyethylene or glass-lined equipment.
Hazardous Decomposition Products	Carbon oxides, Formic acid, Acetic acid, Propionic acid, Methyl ethyl ketone
Possibility of hazardous reactions	Thermal decomposition: 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. Self-Accelerating decomposition temperature (SADT): 60 °C
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Acute Toxicity - Oral	LD50 Oral: 1,070 mg/kg, Species: rats, Method: OECD Test Guideline 401 Dimethyl phthalate, LD50: > 5,000 mg/kg, Species: Rat Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, LD50: 1,017 mg/kg, Species: Rat Methyl ethyl ketone, LD50: 2,737 mg/kg, Species: Rat
Acute Toxicity - Dermal	LD50: 4,000 mg/kg, Species: Rabbit, Method: OECD Test Guideline 402. Dimethyl phthalate, LD50: > 10,000 mg/kg, Species: Rabbit. Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane,

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Acute Toxicity - Inhalation	LD50: 4,000 mg/kg, Species: Rat Methyl ethyl ketone, LD50: 6,480 mg/kg, Species: Rabbit LC50 (Rat): 1.5 mg/l, Exposure time: 4 h, Test atmosphere: dust/mist. Dimethyl phthalate, Assessment: The substance or mixture has no acute inhalation toxicity.
Ingestion	Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, LC50 (Rat): 1.5 mg/l, Exposure time: 4 h, Test atmosphere: dust/mist Harmful if swallowed. Causes burns.
Inhalation	Inhalation of aerosols may cause irritation to mucous membranes. Thermal decomposition can lead to release of irritating gases and vapours. Harmful if inhaled.
Skin	Symptoms may be delayed. May be harmful in contact with skin. Causes severe skin burns.
Eye	Causes serious eye damage.
Respiratory sensitisation	No data available.
Skin Sensitisation	No data available.
Germ cell mutagenicity	Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, Genotoxicity in vitro : Ames test, Result: negative Genotoxicity in vivo : Not classified due to data which are conclusive although insufficient for classification.
Carcinogenicity	No data available.
Reproductive Toxicity	Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, Species: Rat, male and female Application Route: Oral Dose: 0, 25, 50, 75 milligram per kilogram General Toxicity - Parent: No observed adverse effect level: 50 mg/kg bw/day General Toxicity F1: No observed adverse effect level F1: 50 mg/kg bw/day Fertility: No observed adverse effect level Parent: 75 mg/kg bw/day Method: OECD Test Guideline 421, GLP: yes
STOT-single exposure	Methyl ethyl ketone, Exposure routes: Inhalation The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with narcotic effects.
STOT-repeated exposure	Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, The substance or mixture is not classified as specific target organ toxicant, repeated exposure.
Aspiration Hazard	No aspiration toxicity classification
Serious eye damage/irritation	Species: Rabbit Result: Risk of serious damage to eyes. Classification: Risk of serious damage to eyes. Method: Tested according to Annex V of Directive 67/548/EEC Dimethyl phthalate, Result: Slightly irritating to eyes. Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, Result: Risk of serious damage to eyes. Methyl ethyl ketone, Result: Irritating to eyes.
Skin corrosion/irritation	Species: Rabbit Result: Sub-category 1B

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Classification: Category 1B
 Method: Tested according to Annex V of Directive 67/548/EEC.
 Dimethyl phthalate, Result: slight irritation
 Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane,
 Result: Causes burns.
 Methyl ethyl ketone, Result: Repeated exposure may cause skin dryness or cracking.
 Moderately irritating.

12. Ecological information

Persistence and degradability	Dimethyl phthalate, Result: Readily biodegradable. Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, Result: Readily biodegradable, Method: Closed Bottle test. Methyl ethyl ketone, Result: Readily biodegradable.
Mobility	No data available.
Bioaccumulative Potential	Dimethyl phthalate, Species: Fish, Exposure time: 1d, Bioconcentration factor (BCF): 5.4 Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, Bioconcentration factor (BCF): 10.3 Not expected considering the low log Pow value
Other Adverse Effects	No data available.
Acute Toxicity - Fish	LC50: 44.2 mg/l, Exposure time: 96h, Species: Poecilia reticulata (guppy), Test Type: semi-static test. Dimethyl phthalate, LC50: 420 mg/l, Exposure time: 96h, Species: Lepomis macrochirus (Bluegill sunfish). NOEC: 11 mg/l, Exposure time: 102d, Species: Oncorhynchus mykiss (rainbow trout), Test Type: flow-through test, Method: Other guidelines. Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, LC50: 44.2 mg/l, Exposure time: 96h, Species: Poecilia reticulata (guppy), Test Type: semi-static test Methyl ethyl ketone, LC50: 3,220 mg/l, Exposure time: 96h, Species: Lepomis macrochirus (Bluegill sunfish).
Acute Toxicity - Daphnia	LC50 : 39 mg/l, Exposure time: 48h, Species: Daphnia magna (Water flea), Test Type: Immobilization. Dimethyl phthalate, NOEC: 9.6 mg/l, Exposure time: 21d, reproduction rate, Species: Daphnia magna (Water flea), Method: Other guidelines. Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane, LC50 : 39 mg/l, Exposure time: 48h, Species: Daphnia magna (Water flea), Test Type: Immobilization
Acute Toxicity - Algae	ErC50: 5.6 mg/l, Exposure time: 72h, Species: Pseudokirchneriella subcapitata (algae), Test Type: Growth inhibition. Dimethyl phthalate, EC10: 193.09 mg/l, Exposure time: 72h, Species: Desmodesmus subspicatus (green algae), Test Type: Growth inhibition, Method: OECD Test Guideline 201 ErC50: 259.76 mg/l, Exposure time: 72h, Species: Desmodesmus subspicatus (green algae), Test Type: Growth inhibition, Method: OECD Test Guideline 201 Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide

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and di-sec-butylhexaoxidane,
 ErC50: 5.6 mg/l, Exposure time: 72h, Species: Pseudokirchneriella subcapitata (algae), Test Type: Growth inhibition
Acute Toxicity - Bacteria
 EC10: 12 mg/l, Exposure time: 0.5h, Species: activated sludge, Test Type: Respiration inhibition, Method: Domestic OECD Guideline 209.
 Methyl ethyl ketone peroxide; Reaction mass of butane-2,2-diyl dihydroperoxide and di-sec-butylhexaoxidane,
 EC10: 12 mg/l, Exposure time: 0.5h, Species: activated sludge, Test Type: Respiration inhibition, Method: Domestic OECD Guideline 209

13. Disposal considerations

Disposal Considerations Dispose of waste according to applicable local, state and federal regulations.
Product Disposal The product should not be allowed to enter drains, water courses or the soil. Do not contaminate ponds, waterways or ditches with chemical or used container. Hazardous waste Dispose of contents/container in accordance with local regulation.
Container Disposal Empty remaining contents. Dispose of as unused product. Do not burn, or use a cutting torch on, the empty drum. Due to the high risk of contamination recycling/recovery is not recommended. Follow all warnings even after the container is emptied.

14. Transport information

U.N. Number 3105
UN proper shipping name ORGANIC PEROXIDE TYPE D, LIQUID - (Methyl ethyl ketone peroxide)
Transport hazard class(es) 5.2
Hazchem Code 2WE
EPG Number 5K1
IERG Number 32
IATA/ICAO Sub Risk HEAT
IMDG EMS F-J, S-R
Other Information Dangerous Goods of Class 5.2 Organic Peroxides are incompatible in a placard load with any of the following: - Class 1, Class 2, Class 3, Class 4, Class 5.1, Class 7, Class 8, Fire risk substances and combustible liquids.

15. Regulatory information

Regulatory Information All components of this material are listed on or exempt from the New Zealand Inventory of Chemicals (NZIoC).
Poisons Schedule S5
HSNO Approval Number HSNO Approval Number: HSR002630
 Haz Classes: 5.2D, 6.1E(dermal), 6.1D(inhal/oral), 8.2B, 8.3A, 9.1D
 Group Standard: Organic Peroxides, Corrosive
AICS (Australia) All components of this material are listed on or exempt from the Australian Inventory of Chemical Substances (AICS).

16. Other Information

Contact Person/Point An electronic version of this SDS is available at www.imcdgroup.com
Other Information ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition
 AICS: Australian Inventory of Chemical Substances

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ASCC: Office of the Australian Safety and Compensation Council
 BCF: Bioconcentration Factor
 CAS number: Chemical Abstracts Service Registry Number
 CMR: Carcinogenic, Mutagenic or toxic to Reproduction
 DMEL: Derived Minimum Effect Level
 DNEL: Desired NO Effect Level
 EPA: Environmental Protection Agency
 GHS: Globally Harmonised System of Classification and Labelling of Chemicals
 Hazchem Code: Emergency action code of numbers and letters that provide information to emergency services especially fire fighters
 IARC: International Agency for Research on Cancer
 IOELV: Indicative Occupational Exposure Limit Value
 LC50: Lethal Concentration, 50 percent
 LD50: Lethal Dose, 50 percent
 NICNAS: National Industrial Notification & Assessment Scheme
 NIOSH: National Institute for Occupational Safety & Health
 NOAEL: No Observed Adverse Effect Level
 NOEC: No Observed Effect Concentration
 NOS: Not otherwise specified
 NTP: National Toxicology Program (USA)
 OEL: Occupational Exposure Limit
 OSHA: Occupational Safety & Health Administration
 PBT: Persistent Bioaccumulative Toxic chemical
 PMCC: Pensky Martens Closed Cup
 PNEC: Predicted No Effect Concentration
 R-Phrase: Risk Phrase
 STEL: Short Term Exposure Limit
 STOT-SE: Specific Target Organ Toxicity (Single Exposure)
 STOT-RE: Specific Target Organ Toxicity (Repeated Exposure)
 SUSMP: Standard for the Uniform Scheduling of Medicines & Poisons
 TWA: Time Weighted Average
 UN Number: United Nations Number
 vPvB: Very Persistent and Very Bioaccumulative
 WEEL: Workplace Environmental Exposure Level
 WEL-TWA: Workplace Exposure Limit, Time Weighted Average
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