

infosafe cs: 1.10.174

Page: 1 of 7

Infosafe No™ IMD8Y

Issue Date :May 2013

ISSUED by IMCDAST

Product Name Butanox M-50

Classified as hazardous

1. Identification				
GHS Product	Butanox M-50			
Identifier Product Code	4828212			
Company Name	HOZOZIZ 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	Name	Product Code		
	Butanox M-50 4911290 Butanox M-50 4912525 Butanox M-50 4912732 Butanox M-50 5404165 (Methyl ethyl ketone peroxide) 5404165			
Additional Information	It is the user's responsibility to determine the suital for their applications and their methods of use.	oility of this product		
2. Hazard Identifie	cation			
GHS classification of the substance/mixture	Classified as hazardous according to criteria of NOHSC Hazardous according to the criteria of the New Zealand GHS Classification: Hazardous to the Aquatic Environment - Acute Hazard: Ca Acute Toxicity - Dermal: Category 5 Eye Damage/Irritation: Category 1 Acute Toxicity - Inhalation: Category 4 Organic Peroxides: Type D Acute Toxicity - Oral: Category 4 Skin Corrosion/Irritation: Category 1B HSNO Approval Number: HSR002630 Haz Classes: 5.2D, 6.1E(dermal), 6.1D(inhal/oral), 8.20 Group Standard: Organic Peroxides, Corrosive	HSNO Act. ategory 3		
Signal Word (s)	DANGER			
Hazard Statement (s)	H242 Heating may cause a fire. H302 Harmful if swallowed. H313 May be harmful in contact with skin. H314 Causes severe skin burns and eye damage. H332 Harmful if inhaled. H402 Harmful to aquatic life.			
Pictogram (s)	Corrosion, Exclamation mark, Flame			



infosafe cs: 1.10.174

Page: 2 of 7

Infosafe No™	IMD8Y Issue Date : May 2013 ISSUED by IMCDAST
Product Name	Butanox M-50
	Classified as hazardous
Precautionary statement – Prevention	 P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P220 Keep away from dirt, rust, chemicals in particular. P234 Keep only in original container. P260 Do not breathe vapours. P261 Avoid breathing mist, vapours and spray. P264 Wash hands and contaminated skin thoroughly after handling. P270 Do no 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 eye/face protection and protective clothing.
Precautionary statement – Response	 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. P363 Wash contaminated clothing before reuse. P370+P378 In case of fire: Use waterspray, foam, sand, dry chemical or CO2 fo extinction.
Precautionary statement – Storage	P403+P235 Store in a well-ventilated place. Keep cool (below 25°C). P405 Store locked up. P420 Store away from other materials.
Precautionary statement – Disposal	P501 Dispose of contents and container according to local regulations.
3. Composition/int	formation on ingredients
Composition.	Methyl ethyl ketone peroxide, solution in dimethyl phthalate.

Composition, information on ingredients	Methyl ethyl ketone pe	roxide, solution in dimethy	l phthalate.
Ingredients	Name	CAS	Proportion
	Dimethylphthalate	131-11-3	55-70 %
	Methyl ethyl ketone peroxide	1338-23-4	30-37 %
	Methyl ethyl ketone	78-93-3	1-5 %
	Water	7732-18-5	1-3 %

4. First-aid measures

First Aid Measures	Call a physician immediately. You should call a doctor or Poisons Information Centre if you feel that you may have been poisoned, burned or irritated by this product. Have the Safety Data Sheet with you when you call.
Inhalation	Remove to fresh air. If not breathing, give artificial respiration. Oxygen may additionally be given, by trained personnel, if it is available. Get medical attention immediately.
Ingestion	Do not induce vomiting. Get medical attention immediately by calling a physician or a poison control centre. If victim is conscious and alert, give a cupful of water. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs, the patient should lie on their left side while vomiting to reduce the risk of aspiration.
Skin	Immediately start continuous flushing of skin with water for at least 15 minutes, while removing contaminated clothing and shoes. Get medical attention immediately. Wash clothing before reuse. Thoroughly clean or destroy contaminated shoes.
Eye contact	Immediately start continuous flushing of eyes with water for at least 15 minutes. If easy to do, contact lenses should be removed during the flushing



Page: 3 of 7

Infosafe No™ I	IMD8Y	Issue Da	ate :	:May	2013	ISSUED by	/ IMCDAST
Product Name B	Butanox M-50						
		Classi	ified	l as h	azardous		

Indication of immediate medical attention and special treatment needed if necessary	by trained personnel. Hold the eyelids apart during the flushing to ensure rinsing the entire surface of the eye and lids with water. Get medical attention immediately. Persons with pre-existing skin, eye or respiratory disease may be at increased risk from the irritant or allergic properties of this material. This material is severely corrosive to the eyes and may caused delayed keratitis. The normally prescribed 15 minute eye irrigation after exposure may be difficult because of the severe pain. The prior installation of a topical ocular anaesthetic is essential to facilitate a comprehensive ocular lavage. If swallowed, do not induce vomiting. Give paitent plenty of water to drink. Ingestion of this corrosive material may result in severe ulceration, inflammation and possible perforation of the upper alimentary tract, with hemorrhage and fluid loss. Aspiration of this material during induced emeses can result in severe lung injury. Contact a Poison Control Centre for additional treatment information. Treat any additional effects
	symptomatically.
Most important symptoms/effects, acute and delayed	Harmful if swallowed. Causes burns. Causes injury to the cornea and eyelids. Risk of serious damage to eyes.

5. Fire-fighting measures

Fire Fighting Measures	Evacuate all non-essential personnel. Extinguish a small fire with powder or carbon dioxide then apply water to prevent re-ignition. Cool closed containers with water. Water used to extinguish a fire should not be allowed to enter the drainage system or water courses. After a fire , ventilate thoroughly the area and soak with water, clean the wall and metallic surfaces.
Suitable	Waterspray, alcohol-resistant foam, sand, dry chemical powder, CO2.
extinguishing media	
Unsuitable	Halons.
Extinguishing Media	
Hazards from	CO2, carbon monoxide, acetic acid, formic acid, propanoic acid, methyl ethyl
Combustion	ketone.
Products	
Specific hazards arising from the chemical Hazchem Code	CAUTION: reignition may occur. Decomposition under effect of heating. If involved in a fire, it will support combustion. Vapours may form explosive mixtures with air. In case of fire and/or explosion do not breathe fumes. 2WE

6. Accidental release measures

Methods and materials for containment and cleaning up	Stop leakage if possible. Eliminate all sources of ignition and do not generate flames or sparks. Transfer remaining product from leaking container to a clean and suitable container. Cover the remainder with inert absorbent (e.g. vermiculite) for disposal. Keep contents moist. The waste should NOT be confined. Flush surroundings with large amounts of water and soap.
Personal Precautions	Do not breathe fumes/vapours. Avoid contact with the eyes. For personal protection, see section 8.
Environmental Precautions	Do not allow to enter drains or water courses.
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	Never weigh out in the storage room. When using, do not eat, drink or smoke.
Handling	Do not pipette by mouth. Do not breathe fumes/vapour. Handle in well ventilated areas. Eliminate all sources of ignition and do not generate flames or sparks. Keep away from reducing agents (e.g amines), acids, alkalies and heavy metal compounds (e.g. accelerators, driers, metal soaps). Keep product and emptied containers away from heat and sources of ignition. Confinement must be avoided. Avoid contact with eyes. Avoid incompatible materials (See Section 10).



Page: 4 of 7

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Infosafe No™	IMD8Y Issue Date	e :May 2	2013		ISSUI	ED by IMCDAST
Product Name	Butanox M-50					
	Classifi	ed as ha	izardous			
Conditions for safe storage, including any incompatabilities	Store in accordance with local/national regulations. Keep away from food, drink and animal feed. Store in a dry well ventilated place away from sources of heat and direct sunlight. Store separately from other chemicals. Keep only in the original container. Keep container upright to prevent leakage.					
Storage Temperatures	For maximum quality, store	For maximum quality, store below 25°C.				
Additional information on precautions for use	Fire and explosion preventi from sources of ignition - explosive vapour/air mixtur container even when empty.	No smokir	ng. Use n	ion-sparki:	ng tools	in areas where
Other Information	It is recommended to use electrical equipment of temperature group T3. However, autoignition can never be exlcuded. Wash hands thoroughly after handling or contact. Keep working clothing separately and do not take them home.					
8. Exposure contr	ols/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.					
Occupational	Name	S	TEL	1	rwa	
exposure limit values		mæ /m 2				T + + -
		mg/m3	ppm	<u>mg/m3</u> 5	ppm	Footnote
	Dimethylphthalate Methyl ethyl ketone peroxide			1.5	0.2	Peak limitation
	Methyl ethyl ketone	890	300	445	150	
Appropriate engineering controls	Ensure good ventilation and proof ventilation recommend		chaustion	of the w	orking ar	ea. Explosion
Respiratory Protection	In case of insufficient ver	ntilation	, wear su	itable re	spiratory	equipment.
Eye Protection	Wear eye/face protection.					
Hand Protection	Wear suitable protective gloves of neoprene or synthetic rubber.					
Body Protection	Wear suitable protective clothing.					
Other Information	Emergency shower and facilities for rinsing eyes must be accessible. Launder clothes before reuse.					
9. Physical and ch	emical properties					
Form	Liquid					
A	Gloom goloumlogg					

Form	Liquid
Appearance	Clear, colourless.
Odour	Faint.
Freezing Point	Not determined.
Boiling Point	Not applicable - decomposes.
Solubility in Water	Partly miscible.
Solubility in Organic Solvents	Miscible with phthalates.
Specific Gravity	1.18 at 20°C
pH	Slightly acidic.
Vapour Pressure	0.10 kPa at 84°C
Coefficient Water/Oil Distr. Viscosity	Not determined. 24mPa.s at 20°C
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Page: 5 of 7

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Infosafe No™	IMD8Y	Issue Date :May 2013	ISSUED by IMCDAST			
Product Name	Butanox M-50					
		Classified as hazardous				
Volatile Component	5%					
Flash Point	Above the SADT	Above the SADT value.				
Flammability	Decomposition	Decomposition products may be flammable.				
Auto-Ignition Temperature	Test methd not	Test methd not applicable (see Section 7).				
Flammable Limits - Lower	Not determined.					
Flammable Limits - Upper	Not determined.					
Explosion Properties	No					
Oxidising Properties	Not applicable.					
Other Information	Active oxygen content: 8.8 - 9.0% Peroxide content: 30 - 37% SADT: 60°C See also Section 10					

10. Stability and reactivity

Chemical Stability	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 following temperature: 60°C. Contact with incompatible substances can cause decomposition at or below the SADT.
Conditions to Avoid	To maintain quality store in original closed container below: 25°C. Avoid shock and friction. Confinement must be avoided.
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	Acetic acid, formic acid, propanoic acid, methyl ethyl ketone.
Hazardous Polymerization	Will not occur.

11. Toxicological Information

Toxicology Information	No experimental toxicological data of the product as such available. The following data are applicable to the ingredient(s) listed below: Dimethyl phthalate: Oral LD50, rat: >2400 mg/kg Dermal LD50, rat: >10000 mg/kg Inhalation LC50, rat: 9300 mg/m3 (6.5 hours) Skin irritation: Mildly irritating. Eye irritation: Minimally irritating. Methyl ethyl ketone peroxide, 40% in Dimethyl phthalate: Oral LD50, rat: 1017 mg/kg Dermal LD50, rat: 4000 mg/kg Inhalation LC50, rat: 17 mg/l; 4 hours exposure time Skin irritation: Corrosive. Eye irritation: Not sensitising. Genotoxicity: Ames test: not mutagenic Methyl ethyl ketone: Oral LD50, rat: 2737 mg/kg		
12. Ecological i	12. Ecological information		



Page: 6 of 7

Infosafe No™	IMD8Y Issue Date : May 2013 ISSUED by IMCDAST
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	Classified as hazardous
Ecological Information	No experimental ecological data are available on the preparation as such. The following data are applicable to the ingredient(s) listed below: Dimethyl phthalate: LC50 Fish (Lepomis macrochirus), 96h: 420 ppm IC50 Algae (Selenastrum capricornutum), 96h: 39.8 mg/l Fate: Degradation Biotic - readily biodegradable Bio Concentration Factor (BCF) fish 5.4 (24 hours) Methyl ethyl ketone peroxide, 40% in Dimethyl phthalate: LC50 Fish (Poecilia reticulata), 96h: 44.2 mg/l EC50 - Activated sludge respiration inhibition test = 48.0 mg/l Fate: Degradation Biotic - readily biodegradable (closed bottle test) Methyl ethyl ketone: LC50 Fish (Lepomis macrochirus), 96h: 3.22 g/l Fate: Degradation Biotic - readily biodegradable Naturally occurring substance.
13. Disposal consi	lerations
Disposal Considerations Product Disposal	Dispose of waste according to applicable local, state and federal regulations Due to the high risk of contamination recycling/recovery is not recommended. Waste disposal in accordance with regulations (most probably controlled
Container Disposal	incineration). According to local regulations. Emptied container might retain product residues. Follow all warnings even after the container is emptied.
14. Transport info	rmation
U.N. Number	3105
UN proper shipping name	ORGANIC PEROXIDE TYPE D, LIQUID - Butanox M-50
Transport hazard class(es)	5.2
Hazchem Code	2WE
EPG Number	5K1
IERG Number	32
IMO Marine Pollutant	No.
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 inf	ormation
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	HSR002630
Symbol	C - Corrosive O - Oxidising
Hazard Category AICS (Australia)	Harmful,Corrosive,Oxidising All components of this material are listed on or exempt from the Australian
	Inventory of Chemical Substances (AICS).
16. Other Information	tion
Other Information	ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

Rail, 7th Edition AICS: Australian Inventory of Chemical Substances



Page: 7 of 7

Infosafe No™ IMD8Y

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Classified as hazardous

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 THIS MSDS 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 MSDS 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. ...End Of MSDS... © Copyright ACOHS Pty Ltd

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