

ABN 98 000 869 367

SAFETY DATA SHEET

SDS No: 2 DATE ISSUED: August 2016

This product is hazardous according to Work safe Australia.

BUTANOX M-60 MEKP CATALYST

1. PRODUCT IDENTIFICATION

GHS Product Identifier Butanox M-60

Product Code 4317521

Contact Information Fiberglass (A/Asia) Sales Pty. Ltd.

2 Lincoln Street, Minto NSW 2566

Phone: (02) 9820 1144 **Fax:** (02) 9603 2314

Emergency Phone: (02) 9820 1144 (Business Hours)

Poisons Information Centre

Westmead 1800 251 525 or 131126

Chemcall

Australia 1800 127 406 New Zealand +64-3-3530199

National Poisons Centre New Zealand 0800-764 766

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

Other Names Methyl Ethyl Ketone Peroxide.

MEKP

Butanox M-60

Additional Information It is the user's responsibility to determine the suitability of this product for their

applications and their method of use.

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 Not 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

Organic Peroxides: Type D

Skin Corrosion/Irritation: Category 1B

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.

Pictogram (s) Corrosion, Exclamation mark, Flame







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 vapour.

P261 Avoid breathing mist vapours and sprays.

P264 Wash hands and 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 eye/face protection and protective clothing. P301+P330+P331 If Swallowed: rinse mouth. Do NOT induce Vomiting.

Precautionary Statement-Response

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 CENTRE or a doctor/physician.

P330 Rinse mouth.

P363 Wash contaminated cloth before reuse.

Precautionary statement-Storage

P405 Store locked up P410 Protect from sunlight.

P411+P235 Store at temperatures not exceeding 25癈Keep cool.

P420 Store away from other materials.

Precautionary statement-Disposal

P501 Dispose of contents and container according to local regulations.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Composition, information on ingredients

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to

health or the environment and hence require reporting in this section.

Ingredients Name CAS Proportion

Methyl ethyl ketone 1338-23-4 30-60 %

peroxide

Methyl ethyl ketone 78-93-3 1-10 %

4. FIRST-AID MEASURES

First Aid Measures 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. Immediate medical attention is required. Move out of dangerous

area. Show this safety data sheet to the doctor in attendance.

Inhalation If breathed in, move person into fresh air. Consult a physician after significant

exposure.

Ingestion Clean mouth with water and afterwards drink plenty of water. Never give

anything by mouth to an unconscious person. Take victim immediately to

hospital. DO NOT INDUCE VOMITING! May cause chemical burns in mouth and

throat.

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 thoroughly 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.

Indication of immediate medical attention and special treatment need if necessary.

Treat symptomatically.

Most important symptoms/effects, acute and delay

Symptoms: The symptoms and effects are as expected from the hazards as sown in

section 2. No specific product related symptoms are known.

Risks: Harmful if swallowed ir 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

Waterspray, alcohol-resistant foam, dry chemical powder, CO2.

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

Decomposition Temp.

2WE

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.

Other Information

Protective equipment: Firefighters must wear fire resistant protective equipment. Wear approved respirator and protective gloves.

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 (See Section 8).

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 relevant authorities.

7.HANDLING AND STORING

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, 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. Electrical installations/working materials must comply with the technological safety standards. Keep only in the original container. Store away from other materials.

Storage Temperatures

For maximum quality, store below 25°C

Additional information on precautions for use

Fire and explosion prevention: Use explosion protected equipment. Keep away from sources of ignition - No smoking. Use non-sparking tools in areas where explosive vapour/air mixtures may occur. Do not cut or weld on or near this container even when empty.

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 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.

Occupational Exposure Limit Values	<u>Name</u>		STEL	STEL TWA	
	<u>mg/m3</u>	ppm	<u>mg/m3</u>	<u>ppm</u>	Footnote
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 respiratore with an approvide filter.

Filter A.

Eye Protection Tightly fitting safety goggles. Wear face-shield and protective suit for

abnormal processing problems.

Hand Protection 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, drink or smoke. Wash hands before breaks and at the end of the

day.

Other Information Prevent product from entering drains. Of the product contaminates rivers and

lakes or drains inform respective authorities.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form Liquid
Appearance Colourless.
Odour Faint.

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.

Melting Point <= 10 °C

Freezing Point Solidifies at or below -10°C

Boiling Point Decomposes below the boiling point.

Solubilty In Water Partly miscible.

Solubility In Organic Miscible with phthalates.

Solvent

Specific Gravity1.17 at 20°CpHWeakly acidic.Vapour PressureNot Determined.Vapour Density (Air=1)Not Determined.Evaporation RateNo data availableCoefficientNot Determined.

Coefficient
Water/Oil Distr. Viscosity
Volatile Component
Not Determined.
25mPa.s at 20°C.
Not Determined.

Flash Point Above the SADT Value. No flash point was obtained, but the product may release

flammable vapour.

Flammability Decomposition products may be flammable. **Auto Ignition Temperature** Test method not applicable (see Section7).

Flammable Limits-Lower Not determined.
Flammable Limits Not determined.

Upper

Explosion Properties No

Oxidising Properties Not classified as oxidising.

Other Information Peroxide content: 36

Active oxygen content: 9.8 - 10.0%

Organic Peroxides: 36%

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 Heat, flames and sparks. Confinement must be avoided.

Incompatible Materials Contact with the following incompatible materials will result in hazardous

decomposition: Acids and bases, iron, copper, rust, heavy metals and reducing agents. Do not mix with peroxide accelerators, unless under controlled processing. Use only stainless steel 316, PP, polyethylene or glass-lined equipment. For queries

regarding the suitability of toher materials please contact the supplier.

Hazardous Decomposition Products

Carbon oxides, acetic acid, formic acid, propanoic acid, methyl ethyl ketone.

Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

Hazardous Polymerization Will not occur.

11. TOXICOLOGICAL INFORMATION

Toxicology InformationNo experimental toxicological data of the product as such available. The following

data are applicable to the ingredient(s) listed below:

Acute Toxicity – Oral LD50 Oral: 1,070 mg/kg

Species: Rat

Method: OECD Test Guideline 401

Acute Toxicity - Dermal LD50: 4,000 mg/kg

Species: rabbit

Method: OECD Test Guideline 402

Acute Toxicity -Inhalation LC50 (Rat): 1.5 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Respiratory sensitization Not classified based on available information.

Skin Sensitization Not classified based on available information.

Germ cell mutagenicity Not classified based on available information.

Carcinogenicity Not classified based on available information.

Reproductive Toxicity Not classified based on available information.

STOT-single exposure Not classified based on available information.

STOT-repeated exposure Not classified based on available information.

Aspiration Hazard Not classified based on available information.

Species: rabbit

Result: Risk of serious damage to eyes. Classification: risk of serious damage to

eyes. Method: tested according to Annex V or directive 67/548/EEC

Serious eye damage

/irritation

Species: rabbit

Result: sub-category 1B Classification: category 1B

Method: tested according to Annex V of Directive 67/548/EEC

12. ECOLOGICAL INFORMATION

Ecological Information An environmental hazard cannot be excluded in the event of unprofessional

handling or disposal. Toxic to aquatic life. No data is available on the product itself.

Ecotoxicity No information available.

Persistence and degradability

No information available.

Mobility No information available.

Bioaccumulative

Potential

No information available.

Other Adverse No information available.

13. DISPOSAL CONSUDERATIONS

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.

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 ORGANIC PEROXIDE TYPE D, LIQUID - Methyl ethyl ketone peroxide

name

Transport hazard 5 • 2

c1ass(es)

Hazchem Code2WEEPG Number5KIIERG Number32IMO MarineNo.

Pollutant

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 I, Class 2, Class 3, Class 4, Class 5.1, Class 7, Class 8, Fire risk substances and combustible liquids.

15. REGULATORY INFORMATION

Poisons Schedule S5

Symbol C - Corrosive **Hazard Category** 0 - Oxidising

AICS (Australia) Harmful, Corrosive, Oxidising

All components of this material are listed on or exempt from the Australian

Inventory of Chemical Substances (AICS).

Classified As Hazardous

16. OTHER INFORMATION

Other Information ADG Code: Australian Code for the Transport of Dangerous Goods by Road and Rail, 7th Edition

AICS: Australian Inventory of Chemical Substances

ASCC: Office of the Australian Safety and Compensation Council **CAS number:** Chemical Abstracts Service Registry Number

EPA: Environmental Protection Agency

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

NICNAS: National Industrial Notification & Assessment Scheme NIOSH: National Institute for Occupational Safety & Health

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

R-Phrase: Risk Phrase

STEL: Short Term Exposure Limit

SUSMP: Standard for the Uniform Scheduling of Medicines & Poisons

TWA: Time Weighted Average UN Number: United Nations Number

vPvBL: Very Persistent and Very Bioaccumulative **WEEL:** Workplace Environmental Exposure Level

WEL-TWA: Workplace Exposure Limit, Time Weighted Average

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 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.