

## COSHH Risk Assessment – Catalyst Butanox M50 - MEKP

Wind Farm Owner	ScottishPower	Wind Farm Name	Green Knowes
Technical Director	Joe McDonald	Operations Director	Chris Gillies
Next Revision Date	15/02/2027	Document No:	BR-RA-003- Catalyst Butanox M50 MEKP_V3.0



# COSHH RISK ASSESSMENT CATALYST BUTANOX M50 - MEKP



### Integrated Management System Statement

This risk assessment forms part of the Bladestar Renewables Integrated Management System and shall be read in conjunction with the relevant Method Statement, Rescue Procedures and Client Approved Written Procedures.

Hazards have been identified and risk controls selected in accordance with the hierarchy of control principles, ensuring risks are reducing so far as is reasonably practicable (ALARP).

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<b>RISK MATRIX</b>		<b>SEVERITY</b>				
		1 Insignificant	2 Minor First Aid/Injury	3 Significant	4 Major injury/Long term health hazard	5 Death
<b>LIKLIHOOD</b>	5 Very likely	5	10	15	20	25
	4 Likely	4	8	12	16	20
	3 Probable	3	6	9	12	15
	2 Possible	2	4	6	8	10
	1 Unlikely	1	2	3	4	5

<b>Acceptable risk 1-2 (Low)</b>	<b>Acceptable – task may proceed</b>
Reduced risk 3-9 (Medium)	Tolerable and may proceed but may require supervision or active monitoring
Unacceptable risk 10-25 (High)	TASK MUST NOT PROCEED – Revise risk assessment and introduce further control measures to reduce risk

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Job Steps		Hazards & Effects		Control Initial Risk			Measures	Residual Risk		
Hazard Type	Hazard Effect	Groups Affected	Likelihood	Severity	Risk Rating	Existing and recommended measures to reduce the likelihood of severity or both.	Likelihood	Severity	Risk Rating	
Organic Peroxide / Fire and Explosion Hazard	Fire or Severe Chemical Burn	Site Operatives	2	5	10	<ul style="list-style-type: none"> <li>• Appropriate firefighting equipment available and maintained.</li> <li>• Store catalyst in original labelled containers.</li> <li>• Store away from heat, sunlight and ignition sources.</li> <li>• Keep catalyst separated from accelerators, metal powders and combustible materials.</li> <li>• Only dispense small quantities required for immediate work.</li> <li>• Never return unused catalyst to the original container.</li> <li>• Anti-static coveralls must be worn when handling catalyst.</li> <li>• No smoking or naked flames permitted within the work area.</li> </ul>	1	5	5	
Corrosive / Skin Contact	Severe Chemical Burns or Irritation	Site Operatives	3	5	15	<ul style="list-style-type: none"> <li>• Chemical resistant nitrile gloves conforming to EN ISO 374 must be worn.</li> <li>• Disposable chemical resistant coveralls to be worn.</li> <li>• Avoid direct skin contact when mixing catalyst.</li> <li>• Contaminated clothing must be removed immediately.</li> <li>• Skin contact must be rinsed immediately with large quantities of water.</li> <li>• Seek medical advice if irritation or burns occur.</li> </ul>	1	5	5	
Corrosive / Eye Contact	Severe Eye Damage / Loss of Vision	Site Operatives	3	5	15	<ul style="list-style-type: none"> <li>• Safety goggles conforming to EN166 must be worn.</li> <li>• Full face respirator visor provides additional eye protection.</li> <li>• Eye wash kits must be available in service vehicles and work area.</li> <li>• Eyes must be flushed immediately with clean water for at least 15 minutes.</li> <li>• Immediate medical attention must be sought following eye exposure.</li> </ul>	1	5	5	
Respiratory Irritant	Respiratory Irritation / Breathing Discomfort	Site Operatives	3	4	12	<ul style="list-style-type: none"> <li>• Work shall be carried out in well-ventilated areas where possible.</li> <li>• Mechanical ventilation to be used when working inside wind turbine blades or enclosed areas.</li> <li>• Exposure duration shall be minimised.</li> <li>• Respiratory Protective Equipment with A2P3 filters shall be worn where ventilation cannot maintain safe exposure levels.</li> <li>• All operatives using respiratory protection must be face-fit tested unless wearing battery powered respirators.</li> </ul>	1	4	4	

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### Further controls – Fire and First Aid

**Emergency eye wash**

Eye wash stations are available in service vehicle.

**First aid**

Adequate first aid facilities are available. Chemical burns or contamination must be flushed immediately with large quantities of clean water for a minimum of 15 minutes and medical advice sought.

**Provide fresh air**

Substances should be used in an open and well-ventilated area where possible.

**Firefighting equipment**

Suitable firefighting equipment available in service vehicle and turbine.

**No naked flames**

Substances not used/stored near naked flames or points of ignition.

**Wash with soap and water**

Wash contacted area with soap and water.

### Further controls – Storage, disposal and spillage

**Changing Facilities**

Suitable facilities areas for changing of clothes.

**Correct Storage Facilities**

Controlled storage in place for use with designated substances/medication.  
Catalyst must be stored separately from accelerators and incompatible materials.  
Catalyst containers must not be contaminated or returned to original containers after dispensing.

**Hygiene Procedure Observed**

All users are instructed on and acknowledge a formal hygiene procedure.

**No Smoking**

Smoking/Vaping is not allowed within the vicinity of the substance.

**Spillages Cleared up Immediately**

Suitable provisions in place to clear away spills quickly and safely.

**Store Away From Heat**

Substances not used/stored near naked flames or points of ignition/high temperature.

**Warning Signs Displayed**

Relevant signs highlighting potential hazards are clearly displayed in appropriate areas.

**Containers Suitably Labelled**

All containers are suitably labelled to disclose relevant safety advice.

**Do not empty into drains**

Substance should not be emptied/diluted in to drains/water source.

**Keep away from ignition sources**

Substances not used/stored near naked flames or points of ignition.

**Prevent Spillages**

Measures implemented to control spill potential.

**Storage for work clothes and PPE**

Adequate storage provided for all work clothing and provided personal protective equipment.

**Use spill response kit**

Spill Response Kit provided and checked/maintained regularly.

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### Mandatory PPE required

#### Protective Clothing Must Be Worn

Any personal protective equipment provided must be worn as per associated risk assessment.

- Anti-static coveralls conforming to EN 1149.5:2008
- Cat 3 disposable suit conforming to EN ISO 13982-1:2004/A1:2010, EN 13034:2005+A1:2009, EN 1073.2:2002, EN 14126:2003, EN 1149.5:2008

#### RPE Fit Testing

All operatives utilising respiratory protective equipment must have completed face-fit testing unless wearing full face battery powered respirator with A2 + P3 filters. A2 filters only required when working in areas that are not well ventilated.

#### Wear Goggles

Any protective eye equipment provided must be worn as per associated risk assessment.

- Safety goggles conforming to EN 166 3.4B

#### Protective Gloves Must be Worn

Any protective hand wear provided must be worn as per associated risk assessment.

- Cat 3 Nitrile disposable gloves conforming to EN ISO 374-1:2016 Type B, EN ISO 374-5:2016

#### Use Respiratory Protective Equipment RPE

Any respiratory protective equipment provided must be worn as per associated risk assessment.

- Battery powered respirator conforming to EN 166 1 FT B, EN 12941 TH3
- A2 filters conforming to EN 14387:2004+A1:2008 A1
- P3 filters conforming to EN 143:2000+A1:2006 P3 R
- Where ventilation alone cannot reliably maintain exposure below Workplace Exposure Limits, respiratory protective equipment shall be worn at all times when working with uncured resin.
- Full face respirator with A2P3 filters conforming to EN12941 TH3 shall be worn when working with catalyst in enclosed or poorly ventilated areas.

**This COSHH Assessment has been developed with reference to the manufacturer's Safety Data Sheet for Butanox 50 (MEKP Catalyst) and reflects the identified Health, Safety and Environmental hazards. [BR-MSDS-003-Catalyst M\(Butanox M-50\).pdf](#)**

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**Risk Assessment Sign Off**

<b>Name</b>	<b>Position</b>	<b>Company</b>	<b>Date</b>	<b>Signature</b>

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