
MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Antioxidant 2246(BKF)

HS Code: 29071190.00

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol) Qingdao YLSCH Industry&Trade Co.,Ltd
Supplier	Room 501,2-3 Unit. No.8,Zhengzhou Road, Qingdao,China. TEL: +86 18661665800
Emergency telephone	TEL: +86 18661665800
Intended use	Rubber Antioxidant

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)
CAS NO.	119-47-1
Chemical description	White granule
TSCA NO.	none
EINECS NO.	none
Other information	C ₂₃ H ₃₂ O ₂

3. HAZARDS IDENTIFICATION

Risk advice to man and the environment May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Symptoms and effects	Dust may be irritating to the respiratory tract and cause symptoms of bronchitis. Repeated contact may cause skin sensitization.
First aid	
General	In all cases of doubt, or when symptoms persist, seek medical attention.
Inhalation	Move to fresh air. If symptoms persist, seek medical advice. Remove all contaminated clothing immediately. Wash off with plenty of soap and water.
Skin	Seek medical advice if irritation develops. Launder clothes before reuse.

Eye	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
Ingestion	If swallowed, call a physician immediately. Only induce vomiting at the instruction of a physician. Never give anything by mouth to an unconscious person.
Advice to physician	Treat symptomatically. Monitor respiratory system function.

5. FIRE-FIGHTING MEASURES

Extinguishing media	waterspray, foam, dry chemical powder, CO ₂ .
Unsuitable extinguishing media	Waterjet.
Special exposure hazards	Emits toxic fumes under fire conditions.
Hazardous decomposition/ Combustion products	Carbon monoxide (CO), carbon dioxide (CO ₂), nitrous gases (NO _x).
Protective equipment	Wear self contained breathing apparatus.
Other information	Do not allow run-off from fire fighting to enter drains or water courses.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	For personal protection see Section 8. Avoid dust generation.
Methods for cleaning up	Collect as much as possible in a clean container for (preferable) reuse or disposal.

7. HANDLING AND STORAGE

Handling	Avoid contact with skin. Avoid dust generation.
Storage requirements	Store in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Avoid dust generation. Ensure good ventilation and local exhaustion of the working area.
Exposure limits	
Name: 2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)	
Personal protection	
Respiratory	Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment.
Hand	Wear suitable gloves.

Eye	Wear safety goggles.
Skin and body	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	White granule	Colour	White
Odour	----	Boiling point	----
Melting point\geq	120°C	Flash point	149°C
Flammability	----	Explosion limits	----
Explosive properties	----	Autoignition temperature	----
Oxidizing properties	not applicable	Ashes % max	----
Density	----	Loss on drying(%)\leq	----
Solubility in water	----	Solubility in other solvents	Ethanol, acetone,benzene,oil
pH value	----	Steam pressure at 100°C	----
Residues (150um)% Max	----	Heating Loss % Max	----
Viscosity	----	Assay content % \geq	95.0
Strength of grain (N)	0.6-2.5	Zinc content %	----

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	
Materials to avoid	Strong oxidizing agents,strong bases.
Hazardous decomposition products	No decomposition if stored and applied as directed.

11. TOXICOLOGICAL INFORMATION

Name	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)
Acute toxicity	
Oral LG50	Rats: >2,000mg/kg
Dermal LD50	Rabbits: >2,000mg/kg
Irritation	
Skin	Not sensitizing.
Eye	Not irritant.

**12. ECOLOGICAL INFORMATION**

Name	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)
Ecotoxicity	
Fish	Unspecified fish 96h,LC50 >100mg/l Unspecified fish 24h,EC50 >100mg/l
Algae	
Degradation Biotic	Not readily biodegradable.

13. DISPOSAL CONSIDERATIONS

Product	Avoid discharge into the environment Small quantities: According to local regulations. Large quantities: Consult YLSCH Chemical for special advice.
Contaminated packaging	According to local regulations. Waste code number: Please refer to your specific industry
Other information	in the European Waste Catalogue.

14. TRANSPORT INFORMATION**Land transport (ADR/ RID)**

ADR class	----	RID class	----
ADR/RID packing group	----	Hazard Identification No.	----
Substance Identification No.	----	UN number	----

Proper Shipping Name (2,2' -Methylene bis (4-methyl-6-tert-butyl phenol))

Sea transport (IMDG-code/ IMO)

Correct technical name	----	IMDG Class	
UN Number	----	Packaging group	
EMS Number	----		

Air transport (ICAO-TI/ IATA-DGR)

ICAO-TI/IATA-DGR Class	----	UN number	----
Packing group	.		
Correct technical name	(2,2' -Methylene bis (4-methyl-6-tert-butyl phenol))		

15. REGULATORY INFORMATION

Chemical description	2,2' -Methylene bis (4-methyl-6-tert-butyl phenol)
Labelling according to EC directives	
EC-number	See section 2
Classification based on	Annex-1 to directive 67/548/EEC
R(isk) phrase(s)	R53:May cause long-term adverse effects in the aquatic environment.
S(afety) phrase(s)	S60: This material and its container must be disposed of as hazardous waste.
Other information	To be displayed on the label: "EC label".
Wassergefährdungsklasse (WGK)	---

16. OTHER INFORMATION

This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.
