

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Antioxidant NBC

HS Code: 29302000.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	Nickel dibutyldithiocarbamate 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	Nickel dibutyldithiocarbamate
CAS NO.	13927-77-0
Chemical description	Olive green granule
TSCA NO.	none
EINECS NO.	none
Other information	C ₁₈ H ₃₆ N ₂ S ₄ Ni

3. HAZARDS IDENTIFICATION

Dust may cause eye and respiratory irritation. Dust suspended in air in critical proportions and in the presence of an ignition source may present an explosion hazard. Heating may generate vapors which can irritate the eyes and respiratory passages.

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.
Skin	Remove all contaminated clothing immediately. Wash off with plenty of Water and non-abrasive soap. 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	Do not induce vomiting. Immediately give two glasses of water, a little at a time. Never give anything by mouth to an unconscious person. Call a physician. If vomiting occurs spontaneously, lower head below waist to prevent fluid from entering the lungs.
Advice to physician	No specific recommendations.

5. FIRE-FIGHTING MEASURES

Extinguishing media	waterspray, water mist, 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), 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.
Environmental precautions	Avoid discharge into the environment. Collect as much as possible in a clean container for
Methods for cleaning up	(preferable) reuse or disposal.

7. HANDLING AND STORAGE

Handling	Avoid prolonged or repeated contact with skin. Use with adequate ventilation. Wash thoroughly after handling. Store in cool area. Keep away from heat, sparks, and flames. Under dusty conditions, static electricity may caus an explosion.
Storage requirements	No specific storage is required. Be sure that it is not necessary to strain to reach materials, and that shelves are not overloaded.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering controls	Avoid dust generation.Ensure good ventilation and local exhaustion of the working area.
Exposure limits	

**Name:**Nickel dibutyldithiocarbamate**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	Olive green granule	Colour	Olive green
Odour	----	Boiling point	----
Melting point ≥	85℃	Flash point	----
Flammability	----	Explosion limits	----
Explosive properties	----	Autoignition temperature	approx. 500℃
Oxidizing properties	not applicable	Ash %	----
Density	not applicable	Loss on drying(%) ≤	0.5
Solubility in water	Insoluble in cold water	Solubility in other solvents	Benzene,toluene ,chlorobenzen
pH value	----	Nickel content (%) /	11.8-13.2
Residues (150um)% Max	≤0.1	Heating Loss % Max	----
Viscosity	----	Assay content % ≥	95.0
Strength of grain (N)	0.6-2.5	Oil content %	----

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	Illumination
Materials to avoid	Strong oxidants, strong acid.
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NOx).

11. TOXICOLOGICAL INFORMATION

Name	Nickel dibutyldithiocarbamate
Acute toxicity	
Oral LG50	rat: 2370 mg/kg.
Dermal LD50	rabbit: 500 mg/kg.



Irritation

Skin	Not expected to be a significant hazard.
Eye	Dust or fumes from heated material may cause irritation to eyes.

12. ECOLOGICAL INFORMATION

Name	Nickel dibutyldithiocarbamate
Ecotoxicity	
Fish	
Daphnia	
Algae	
Degradation Biotic	Possibly hazardous short-term degradation products are not likely. However, long-term degradation products may arise.

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	III	Hazard Identification No.	----
Substance Identification No.	3077	UN number	3077
Proper Shipping Name	Environmentally hazard us substance, solid, n.o.s. (Nickel dibutyldithiocarbamate)		
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	Environmentally hazardous substance, solid, n.o.s.		
Correct technical name	(Nickel dibutyldithiocarbamate)		

15. REGULATORY INFORMATION

Chemical description	Nickel dibutyldithiocarbamate
Labelling according to EC directives	
EC-number	See section 2
Classification based on	Annex-1 to directive 67/548/EEC
R(isk) phrase(s)	R 53 may cause long-term adverse effects in the aquatic environment.
S(afety) phrase(s)	S 60 This material and its container must be disposed of as hazardous waste. S 61 Avoid release to the environment. Refer to special instructions/Safety data sheets
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.