
MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Accelerator TBzTD

HS Code: 29309090.90

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	Tetrabenzyl Thiuram Disulfide
Supplier	Qingdao YLSCH Industry&Trade Co.,Ltd Room 501,2-3 Unit. No.8,Zhengzhou Road, Qingdao,China. TEL: +86 18661665800
Emergency telephone	TEL: +86 18661665800
Intended use	Rubber Vulcanization Accelerator

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	二硫化四苄基秋兰姆 Tetrabenzyl Thiuram Disulfide
CAS NO.	10591-85-2
Chemical description	Light yellow powder
TSCA NO.	none
EINECS NO.	none
Other information	C ₃₀ H ₂₈ N ₂ S ₄

3. HAZARDS IDENTIFICATION

May cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

Symptoms and effects	May cause alcohol intolerance.
First aid	
General	Do not drink alcohol after exposure.

Inhalation	Not applicable.
Skin	Wash off with plenty of soap and water.
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	Rinse mouth, give water to drink.
Advice to physician	No specific recommendations.

5. FIRE-FIGHTING MEASURES

Extinguishing media	Waterspray, water mist, foam, dry chemical powder, CO ₂
Unsuitable extinguishing media	None known.
Special exposure hazards	None known.
Hazardous decomposition/combustion products	Hydrogen cyanide (HCN), sulphur dioxide (SO 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.
Environmental precautions	Do not flush into public water courses. Collect as much as possible in a clean container for
Methods for cleaning up	(preferable) reuse or disposal.

7. HANDLING AND STORAGE

Handling	The usual precautions for handling chemicals should be observed.
Fire and explosion prevention	No specific recommendations.
Storage requirements	Store in a dry and cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION



Engineering controls	No specific recommendations.
Exposure limits	
Name: Tetrabenzyl Thiuram Disulfide	10.0 mg/m ³ (total inhalable dust)
Personal protection	
Respiratory	No specific recommendations.
Hand	Wear suitable gloves.
Eye	Wear safety goggles.
Skin and body	Wear suitable protective clothing.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Light yellow powder	Colour	Light-yellow
Odour	Odorless	Boiling point	----
Melting point ≥	128℃	Flash point	147-149℃
Flammability	----	Explosion limits	----
Explosive properties		Auto ignition temperature	----
Oxidizing properties	----	Vapour pressure	----
Density	1.50g/cm ³ (20℃)	Bulk density	----
Solubility in water	Insoluble in water	Solubility in other solvents	Not determined
pH value	----	Partition coefficient	----
Residues (150um)% Max	0.1(Max)	Relative vapour density	----
Viscosity	----	Assay content % ≥	95
Strength of grain(N)	----	Zinc content %	----

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	No specific recommendations.
Materials to avoid	Oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products known.

11. TOXICOLOGICAL INFORMATION

Name	Tetrabenzyl Thiuram Disulfide
Acute toxicity	
Oral LG50	rat: > 5000 mg/kg.
Dermal LD50	rat 4 hours: >5 mg/l.
Irritation	
Skin	Practically non-irritating.
Eye	Practically non-irritating.

12. ECOLOGICAL INFORMATION

Name	Tetrabenzyl Thiuram Disulfide
Ecotoxicity	
fish	96h-LC50 (Poecilia reticulata): > 32 mg/l.
daphnia	48h-EC50 (Daphnia magna): > 100 mg/l.
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	9	RID class	9
ADR/RID packing group	----	Hazard Identification No.	90
Substance Identification No.	3077	UN number	3077
Proper Shipping Name	(Tetrabenzyl Thiuram Disulfide)		
Sea transport (IMDG-code/ IMO)	Environmentally hazard us substance, solid, n.o.s.		

Correct technical name	----	IMDG Class	
UN Number	----	Packaging group	
EMS Number	----		
Air transport (ICAO-TI/ IATA-DGR)			
ICAO-TI/IATA-DGR Class	9	UN number	3077
Packing group	Environmentally hazardous substance, solid, n.o.s.		
Correct technical name	(Tetrabenzyl Thiuram Disulfide)		

15. REGULATORY INFORMATION

Chemical description	Tetrabenzyl Thiuram Disulfide
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 43 May cause sensitization by skin contact May cause long-term adverse effects in the aquatic environment
S(afety) phrase(s)	S 24 Avoid contact with skin S 37 Wear suitable gloves S 60 This material and its container must be disposed of as hazardous waste S 61 Avoid release to the environment. Refer to special instruction /Safety data sheets
Other information	To be displayed on the label: "EC label".
Wassergefährdungsklasse (WGK)	2 (VwVwS Anhang 4 Nr. 3)

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.