

MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Accelerator DPG(D)

HS Code:38121000.00

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product label name	Diphenyl guanidine
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	二苯胍 Diphenyl guanidine
CAS NO.	102-06-7
Chemical description	Grayish white powder
TSCA NO.	none
EINECS NO.	none
Other information	C ₁₃ H ₁₃ N ₃

3. HAZARDS IDENTIFICATION

Repeated contact may cause skin sensitization. Very toxic to aquatic organisms, 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.
Skin	Remove all contaminated clothing immediately. Wash off with plenty of soap and water. 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	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	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.
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. The usual precautions for handling chemicals should be observed.
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: Diphenyl guanidine	OES-TWA 5.0 mg/m ³ OES-TWA 10.0 mg/m ³ (total inhalable dust)
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	Grayish white powder	Colour	Grayish white
Odour	----	Boiling point	----
Melting point ≥	144 °C	Flash point	> 150 °C
Flammability	----	Explosion limits	----
Explosive properties		Auto ignition temperature	----
Oxidizing properties	----	Vapour pressure	----
Density	1.08-1.09g/cm ³ (20 °C)	Bulk density	----
Solubility in water	Insoluble in water	Solubility in other solvents	Soluble in Benzene, CS ₂
pH value	----	Partition coefficient	----
Residues (150um)% Max	0.1(Max)	Relative vapour density	----
Viscosity	----	Assay content % ≥	96
Strength of grain(N)	----	Zinc content %	----
Soluble Zinc content ≤	----		

10. STABILITY AND REACTIVITY

Stability	Stable under recommended storage and handling conditions (see section 7).
Conditions to avoid	Heating > 100 °C: May catch fire.
Materials to avoid	No specific recommendations.
Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NO _x), Sulfur oxides (SO _x).

11. TOXICOLOGICAL INFORMATION

Name	Diphenyl guanidine
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Acute toxicity

Oral LD50 rat : 350mg/kg

Dermal LD50 rabbit : >2000 mg/kg

Irritation

Skin Slightly irritating to skin but not sufficient for classification.

Eye Slightly irritating to eyes but not sufficient for classification.

12. ECOLOGICAL INFORMATION

Name Diphenyl guanidine

Ecotoxicity

96h-LC50 (Lepomis macrochirus): 9.6mg/l.

Fish

96h-LC50 (Oncorhynchus mykiss): 11.0mg/l.

96h-LC50 (Pimephales promelas): 4.2 mg/l.

Daphnia

48h-EC50 (Daphnia magna): 17.0mg/l.

Algae

96h-IC50 (Selenastrum capricornutum): 1.7 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.

Other information

Waste code number: Please refer to your specific industry
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

Environmentally hazard us substance, solid, n.o.s.

Proper Shipping Name (Diphenyl guanidine)

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	9	UN number	3077
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Packing group Environmentally hazardous substance, solid, n.o.s.

Correct technical name (Diphenyl guanidine)

15. REGULATORY INFORMATION

Chemical description	Diphenyl guanidine
Labelling according to EC directives	
EC-number	See section 2
Classification based on	Annex-1 to directive 67/548/EEC
	R43 May cause sensitization by skin contact
R(isk) phrase(s)	May cause long-term adverse effects in the aquatic environment.
	S 24 Avoid contact with skin
	S 37 Wear suitable gloves
	S 60 This material and its container must be disposed of
S(afety) phrase(s)	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 3, Nr. 6605)

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.