

Room 501,2-3 Unit No.8,Zhengzhou Road,Qingdao,China. TEL: <u>86 18661665800</u> Email: <u>Dana@ylsch-rbb.com</u> Website: <u>www.ylsch-rbb.com</u>

# MATERIAL SAFETY DATA SHEET

: According to EC-directive 2001/58/EC

Rubber Accelerator DPG(D)

# HS Code:29252000.90

## **1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION**

Product label name	Diphenyl guanidine
	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 Vulcanization Accelerator

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

	二苯胍
Chemical name	Diphenyl guanidine
CAS NO.	102-06-7
Chemical description	White or grey white granule
TSCA NO.	none
EINECS NO.	none
Other information	C <sub>13</sub> H <sub>13</sub> N <sub>3</sub>

### 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	Harmful if swallowed. Irritating to eyes, respiratory system and skin.
First aid	
General	In all cases of doubt, or when symptoms persist, seek medical attention.



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Inhalation	Move to fresh air. If symptoms persist, seek medical advice.
	Remove all contaminated clothing immediately. Wash off with plenty of
Skin	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, CO2
Unsuitable extinguishing media	None known
Special exposure hazards	Emits toxic fumes under fire conditions.
Hazardous decomposition/ combustion products	Carbon monoxide(CO),nitrous gases (NOx).
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 contact with skin. Avoid dust generation.
	Take precautionary measures against static discharges.
Fire and explosion prevention	No specific recommendations.
Storage requirements	Store in a dry and cool place.

### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION



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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/m3 OES-TWA 10.0 mg/m³ (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	White or gery white granule	Colour	White or gery white
Odour		Boiling point	
Melting point≷	<b>144</b> °C	Flash point	> <b>150</b> °C
Flammability		Explosion limits	
Explosive properties		Auto ignition temperature	
Oxidizing properties		Vapour pressure	
Density	1.08-1.09g/cm <sup>3</sup> (20°C)	Bulk density	
Solubility in water	Insoluble in water	Solubility in other solvents	in most organic solvents
pH value		Partition coefficient	
Residues (150um)% Max	0.1(Max)	Relative vapour density	
Viscosity		Assay content % ≥	95
Strength of grain(N)	0.6-2.5	Zinc content %	
Soluble Zinc content $\leqslant$			

#### **10. STABILITY AND REACTIVITY**

	Stable under recommended storage and handling conditions
Stability	(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 (NOx), Sulfur oxides (SOx).



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Name	Diphenyl guanidine
Acute toxicity	
Oral LD50	rat : 350mg/kg
Dermal LD50	rabbit:>2000 mg/kg
Irritation	
Skin	Slightly irritating to skin but not sufficient for classification.
Еуе	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.
	Waste code number: Please refer to your specific industry
Other information	in the European Waste Catalogue.



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## **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 h	azard 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
Packing group	Environmentally hazardous substance, solid, n.o.s.		
Correct technical name	(Diphenyl guanidir	e)	

### **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)			

#### **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.