

**MATERIAL SAFETY DATA SHEET:** According to EC-directive 2001/58/EC**Rubber Accelerator DPG (D)****HS Code: 38121000.00****1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)**

产品标签名/ Product label name	二苯胍/ Diphenyl guanidine 深圳市华起达实业有限责任公司 Meyors Chemical INC Limited 深圳市罗湖区中兴路, 外贸集团大厦 2610-2611 室
供应商/ Supplier	RM 2610-2611 Foreign Trade Building, Zhong Xing Road Shen Zhen. China TEL:+86-755-82184166 FAX:+86-755-82187033
紧急电话/ Emergency telephone	+86-755-82190130
产品用途/ Intended use	橡胶硫化促进剂/ Rubber Vulcanization accelerator

**2. 成分/组成信息(COMPOSITION/INFORMATION ON INGREDIENTS)**

化学名/ Chemical name	二苯胍/ Diphenyl guanidine
CAS 编号/ CAS NO.	102-06-7
产品描述/ Chemical description	灰白色粉末/ Grayish white powder
TSCA NO.编码/ TSCA NO.	无/ none
EINECS 号码/ EINECS NO.	无/ none
其他信息/ Other information	C <sub>13</sub> H <sub>13</sub> N <sub>3</sub>

**3. 危险性鉴定(HAZARDS IDENTIFICATION)**

## 3.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008:The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H361f, H411

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation:

H361

H361:  
GHS08:Suspected of damaging fertility or the unborn child.  
Health hazard


Repr.2

H361f Suspected of damaging fertility

GHS09 Environment Aquatic  
Aquatic Chronic 2

H411 Toxic to aquatic life with long lasting effects.



GHS07	H302 Harmful if swallowed.
Acute Tox. 4	
 Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.
STOT SE 3	H335 May cause respiratory irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC



Xn; Harmful  
R22 Harmful if swallowed.



Xi; Irritant  
R36/37/38 Irritating to eyes, respiratory system and skin



N; Dangerous for the environment.  
R51/53 Very toxic to aquatic organisms; may cause long-term adverse effects in the aquatic

Information concerning particular hazards for human and environment: Not applicable

### 3.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The substance is classified and labeled according to the CLP regulation.

Hazard pictograms



GHS07



GHS08



GHS09

Signal word: Warning

Hazard-determining components of labeling: 1,3-diphenylguanidine

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation:  
H361f.

- H361 Suspected of damaging fertility or the unborn child. (General GHS and USA only)
- H302 Harmful if swallowed.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H361f Suspected of damaging fertility.
- H335 May cause respiratory irritation.
- H411 Toxic to aquatic life with long lasting effects

Precautionary statements

- P281 Use personal protective equipment as required.
- P264 Wash thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P261 Avoid breathing dust.



P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P302+P352 IF ON SKIN: Wash with plenty of soap and water.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

Hazard description  
WHMIS-symbols



D2A – Very toxic material causing other toxic effects

NFPA ratings (scale 0-4)



Health = 2

Fire = 1

Reactivity = 0

HMIS ratings (scale 0-4)

HEALTH	*2
FIRE	1
REACTIVITY	0

Health = \*2

Fire = 1

Reactivity = 0

\* - Indicates a long-term health hazard from repeated or prolonged exposures.

HMIS Long Term Health Hazard Substances: Substance is not listed.

### 3.3 Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

## 4. 急救措施(FIRST AID MEASURES)

### 症状和效果/ Symptoms and effects

Harmful if swallowed. Irritating to eyes, respiratory system and skin.

吞食以及通过眼睛，呼吸系统，皮肤吸收有害

### 急救/ First aid

### 通常情况/ General

In all cases of doubt, or when symptoms persist, seek medical attention.

任何可疑情况，或有任何症状出现，请马上找医生咨询。

### 吸入/ Inhalation

Move to fresh air. If symptoms persist, seek medical advice.

呼吸新鲜空气。如果有持续症状，请马上就医。

Remove all contaminated clothing immediately. Wash off with plenty of soap and water.

### 皮肤/ Skin

Seek medical advice if irritation develops. Launder clothes before reuse.

立即移走所有被污染的衣物。用肥皂和清水冲洗。

如果出现愤怒、烦躁症状请立即就医。衣物重新使用前需洗涤干净。

### 眼睛/ Eye

Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to



<p><b>摄取/ Ingestion</b></p> <p><b>医生建议/ Advice to physician</b></p>	<p>ensure thorough rinsing. Seek medical advice if irritation develops.</p> <p>翻开眼睑用清水冲洗干净。</p> <p>确保洗除残渣。如果出现愤怒症状请就医。</p> <p>Rinse mouth, give water to drink.</p> <p>请漱口，喝水。</p> <p>No specific recommendations.</p> <p>无详细建议。</p>
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## 5. 消防措施(FIRE-FIGHTING MEASURES)

<p><b>灭火媒介/ Extinguishing media</b></p> <p><b>不适用的灭火媒介</b> <b>/ Unsuitable extinguishing media</b></p> <p><b>特殊危险/ Special exposure hazards</b></p> <p><b>分解腐烂危险/燃烧产品/</b> <b>Hazardous decomposition/</b> <b>combustion products</b></p> <p><b>保护设备/ Protective equipment</b></p> <p><b>其他信息/ Other information</b></p>	<p>waterspray, water mist, foam, dry chemical powder, CO<sub>2</sub></p> <p>喷水，水雾，泡沫，干粉灭火器，CO<sub>2</sub></p> <p>None known</p> <p>不知。</p> <p>Emits toxic fumes under fire conditions.</p> <p>在火灾情况下释放的有毒烟气。</p> <p>Carbon monoxide (CO), nitrous gases (NO<sub>x</sub>).</p> <p>一氧化碳，氮的氧化物。</p> <p>Wear self contained breathing apparatus.</p> <p>需配戴空气呼吸器。</p> <p>Do not allow run-off from fire fighting to enter drains or water courses.</p> <p>避免消防水接触下水道，土地或水源。</p>
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## 6. 泄露应急处理(ACCIDENTAL RELEASE MEASURES)

<p><b>个人防范/ Personal precautions</b></p> <p><b>环境预防/ Environmental precautions</b></p> <p><b>清洁处理方法/ Methods for cleaning up</b></p>	<p>For personal protection see Section 8. Avoid dust generation.</p> <p>对于个人防范请参照第 8 部分。避免粉尘的产生。</p> <p>Avoid discharge into the environment.</p> <p>避免流入环境之中。</p> <p>Collect as much as possible in a clean container for (preferable) reuse or disposal.</p> <p>尽可能的将其收集在清洁的容器里以便回收或集中处理。</p>
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## 7. 操作处置与储存(HANDLING AND STORAGE)

<p><b>操作处置/ Handling</b></p> <p><b>火灾爆炸处理/</b> <b>Fire and explosion prevention</b></p> <p><b>储存要求/ Storage requirements</b></p>	<p>Avoid contact with skin. Avoid dust generation.</p> <p>Take precautionary measures against static discharges.</p> <p>避免接触皮肤。避免粉尘。</p> <p>做好静电预防。</p> <p>No specific recommendations.</p> <p>无详细建议。</p> <p>Store in a dry and cool place.</p> <p>储存于干燥与阴凉的地方。</p>
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**8. 接触控制/个体防护(EXPOSURE CONTROLS/PERSONAL PROTECTION)**

工程学控制/ <b>Engineering controls</b>	Avoid dust generation. Ensure good ventilation and local exhaustion of the working area. 避免粉尘产生。确保当地工作场所通风。
<b>暴露限制/ Exposure limits</b>	
名称/ <b>Name:</b> 二苯胍 Diphenyl guanidine	OES-TWA 5.0 mg/m <sup>3</sup> OES-TWA 10.0 mg/m <sup>3</sup> (total inhalable dust)
<b>个体防护/ Personal protection</b>	
<b>呼吸器/ Respiratory</b>	Avoid breathing dust. In case of insufficient ventilation, wear suitable respiratory equipment. 避免吸入粉尘。在通风不畅的情况下请佩戴相应的呼吸器。
<b>手/ Hand</b>	Wear suitable gloves. 佩戴相应的长手套。
<b>眼/ Eye</b>	Wear safety goggles. 佩戴防护眼罩。
<b>皮肤和身体/ Skin and body</b>	Wear suitable protective clothing. 穿戴相应的保护服装。

**9. 物理和化学特性(PHYSICAL AND CHEMICAL PROPERTIES)**

<b>外观/ Appearance</b>	grayish white powder 灰白色粉末	<b>颜色/ Colour</b>	Grayish white 灰白色
<b>气味/ Odour</b>	---	<b>沸点/ Boiling point</b>	---
<b>熔点/ Melting point</b> ≥	144°C	<b>闪点/ Flash point</b>	> 150°C
<b>易燃性/ Flammability</b>	----	<b>爆炸极限/ Explosion limits</b>	----
<b>爆炸性/ Explosive properties</b>	----	<b>自燃温度/ Auto ignition temperature</b>	----
<b>氧化性/ Oxidizing properties</b>	----	<b>蒸汽压/ Vapour pressure</b>	----
<b>比重/ Density</b>	1.08-1.09 g/cm <sup>3</sup>	<b>体积密度/ Bulk density</b>	----
<b>溶解性/ Solubility in water</b>	Insoluble in water 不溶于水	<b>在其它溶剂中的溶解性/ Solubility in other solvents</b>	in most organic solvents 在多数有机溶剂中溶解
<b>相对蒸汽密度/ (air=1) Relative vapour density</b>		<b>粘性/ Viscosity</b>	
<b>纯度/ Assay content %</b> ≥	96	<b>Residues (150um)% Max</b>	0.1(Max)
		<b>筛余物</b>	

**10. 稳定性和反应性(STABILITY AND REACTIVITY)**



稳定性/ Stability	Stable under recommended storage and handling conditions (see section 7). 推荐的稳定储存和搬运条件（请参照第 7 部分）
应避免的情况/ Conditions to avoid	Heating > 100 °C: May catch fire. 大于 100 °C:可能导致火灾。
应避免的物质/ Materials to avoid	No specific recommendations. 无特殊推荐。
腐烂分解毒害性产品/ Hazardous decomposition products	Thermal decomposition products: carbon monoxide (CO), nitrous gases (NOx), Sulfur oxides (SOx). 热分解产品：一氧化碳，氮的氧化物，硫的氧化物。

**11. 毒理学资料(TOXICOLOGICAL INFORMATION)**

名称/ Name	二苯胍/ Diphenyl guanidine
敏感性毒害/ Acute toxicity	
口头的/ Oral LD50	老鼠/ rat: 350 mg/kg.
皮肤的/ Dermal LD50	兔子/ rabbit: >2000 mg/kg.
易愤怒/ Irritation	
皮肤/ Skin	Slightly irritating to skin but not sufficient for classification. 对皮肤有轻微刺激但未达到分级阶段。
眼睛/ Eye	Slightly irritating to eyes but not sufficient for classification. 对眼有轻微刺激但未达到分级阶段。

**12. 生态学资料(ECOLOGICAL INFORMATION)**

名称/ Name	二苯胍/ Diphenyl guanidine
生态学/ Ecotoxicity	
鱼/ fish	96h-LC50 (Lepomis macrochirus): 9.6mg/l. 96h-LC50 (Oncorhynchus mykiss): 11.0mg/l. 96h-LC50 (Pimephales promelas): 4.2 mg/l.
水蚤/ daphnia	48h-EC50 (Daphnia magna): 17.0mg/l.
藻类/ algae	96h-IC50 (Selenastrum capricornutum): 1.7 mg/l.
初级生物/ Degradation Biotic	不能被轻易分解/ Not readily biodegradable.

**13. 废弃处理(DISPOSAL CONSIDERATIONS)**

产品/ Product	Avoid discharge into the environment. Small quantities: According to local regulations. Large quantities: Consult Meyors Chemical for special advice. 避免流入环境。
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包装污染/ Contaminated packaging

其他信息/ Other information

小量: 根据当地规定。

大量: 请联系美尔化工获取建议。

According to local regulations.

根据当地规定。

Waste code number: Please refer to your specific industry  
in the European Waste Catalogue.

消耗物代码: 请联系欧洲在消耗物领域的特殊工业。

#### 14. 运输信息(TRANSPORT INFORMATION)

Meyors



14.1 UN-Number	
DOT, ADR, IMDG, IATA	N/A UN 3077
14.2 UN proper shipping name:	
DOT	N/A
ADR	3077 ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID, N.O.S (1,3-diphenylguanidine)
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S (1,3-diphenylguanidine), MARINE POLLUTANT
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCESOLID, N.O.S (1,3-diphenylguanidine)
14.3 Transport hazard class(es)	
DOT, Class ADR	N/A
	Class: 9 (M7) Miscellaneous dangerous substances and articles. Label: 9
	Class:9 Miscellaneous dangerous substances and articles. Label: 9
14.4 Packing group	
DOT ADR,IMDG,IATA	N/A III
14.5 Environmental hazards	Product contains environmentally hazardous substances: (1,3-diphenylguanidine)
Marine pollutant	Yes
	Symbol (fish and tree)
Special Marking (ADR)	Symbol (fish and tree)
Special Marking (IATA)	Symbol (fish and tree)
14.6 Special precautions for user	Warning: Miscellaneous dangerous substances and articles
Danger code (Kemler)	90
EMS Number	F-A, S-F.
14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:	Not applicable.
Transport/Additional information	
ADR	
Limited quantities (LQ)	5kg
Transport category	3
Tunnel restriction code	E
UN "Model Regulation"	UN3077, ENVIRONMENT ALLY HAZ ARDO US SUBSTANCE, SOLID, N.O.S. (1,3-diphenylguanidine), 9, III

### 15. 法规信息(REGULATORY INFORMATION)

#### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

United States (USA)	
SARA Section 355 (extremely hazardous substances)	Substance is not listed.
SARA Section 313 (Specific toxic chemical listings)	Substance is not listed.
TSCA (Toxic Substances Control Act)	Substance is listed.
Proposition 65 (California)	
Chemicals known to cause cancer	Substance is not listed.





Chemicals known to cause reproductive toxicity for females	Substance is not listed.
Chemicals known to cause reproductive toxicity for males	Substance is not listed.
Chemicals known to cause developmental toxicity	Substance is not listed.
<b>Carcinogenic Categories</b>	
EPA (Environmental Protection Agency)	Substance is not listed.
IARC (International Agency for Research on Cancer)	Substance is not listed.
TLV (Threshold Limit Value established by ACGIH)	Substance is not listed.
NIOSH-Ca (National Institute for Occupational Safety and Health)	Substance is not listed.
OSHA-Ca (Occupational Safety & Health Administration)	Substance is not listed.
<b>Canada</b>	
Canadian Domestic Substances List (DSL)	Substance is listed.
Canadian Ingredient Disclosure list (limit 0.1%)	Substance is not listed.
Canadian Ingredient Disclosure list (limit 1%)	Substance is not listed.

15.2. Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## 16. 其他信息(OTHER INFORMATION)

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

IMDG: International Maritime Code for Dangerous

Goods DOT: US Department of Transportation

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals ACGIH: American Conference of Governmental Industrial

Hygienists

EINECS: European Inventory of Existing Commercial Chemical

Substances CAS: Chemical Abstracts Service (division of the American

Chemical Society) NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

WHMIS: Workplace Hazardous Materials Information System

(Canada) DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)