



HS Code: 38121000.00

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MATERIAL SAFETY DATA SHEET: According to EC-directive 2001/58/EC

Rubber Accelerator ZDBC (BZ)

1. 化学品及企业标示(CHEMICAL PRODUCT AND COMPANY IDENTIFICATION)

二丁基二硫代氨基甲酸锌 产品标签名/ Product label name

Zinc Dibutyl dithiocarbamate

深圳市华起达实业有限责任公司

Meyor Industrial Co.,Ltd

深圳市罗湖区中兴路,外贸集团大厦 2610-2611 室

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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

Zinc Dibutyl dithiocarbamate

CAS 编号/ **CAS NO**. 136-23-2

产品描述/ Chemical description 白色颗粒/ white granule

TSCA NO.编码/ TSCA NO. 无/ none

EINECS 号码/ EINECS NO. 无/ none

其他信息/ Other information C₁₈H₃₆N₂S₄Zn

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: H400, H410.



GHS09 Environment

H400 Very toxic to aquatic.

Aquatic Acute 1

H410 Very toxic to aquatic life with long lasting effects.

Aquatic Chronic 1

GHS07

H315 Causes skin irritation.

Skin Irrit. 2 H319 Causes serious eye irritation.

Eye Irrit. 2

H317 May cause an allergic skin reaction
Skin Sens. 1

H335 May cause respiratory irritation.

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





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Very toxic to aquatic organisms; may cause long-term adverse effects



Xn; Sensitizing

R42/43:

May cause sensitization by inhalation and skin contact.



Xi; Irritant

R36/37/38:

Irritating to eyes, respiratory system and skin.



N; Dangerous for the

environment.

in the aquatic

R50/53

Information concerning particular hazards for human and environment: Not applicable.

3.2 Label elements

Labeling according to Regulation (EC) No 1272/2008

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400 The substance is classified and labeled according to the CLP regulation.

Hazard pictograms



This pictogram only applicable for EU regulations. Not for use in the United States (OSHA GHS)





GHS07

GHS09

Signal word: Warning

Hazard-determining components of labeling: zinc bis (dibutyldithiocarbamate)

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H400

H302+H332 Harmful if swallowed or if inhaled.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H335 May cause respiratory irritation.

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

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

P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.





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Additional information: Contains zinc bis (dibutyldithiocarbamate). May produce an allergic reaction.

Hazard description

WHMIS-symbols



D2A -Very toxic material causing other toxic effects

NFPA ratings (scale 0-4)



REACTIVITY

Health = 1

Fire = 1

Reactivity = 0

Health = 1

Fire = 1

Reactivity = 0

HMIS ratings (scale 0-4)

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)

Dust may be irritating to the respiratory tract and cause symptoms of

bronchitis.

症状和效果/ Symptoms and effects Repeated contact may cause skin sensitization.

粉尘可能吸入呼吸道,从而导致支气管炎。

经常接触可能导致皮肤过敏。

急救/ First aid

摄取/ Ingestion

In all cases of doubt, or when symptoms persist, seek medical attention. 通常情况/ General

任何可疑情况,或有任何症状出现,请马上找医生咨询。

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

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。

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

the eyeball to

眼睛/ Eye Ensure thorough rinsing. Seek medical advice if irritation develops.

翻开眼睑用清水冲洗干净。

确保洗除残渣。如果出现愤怒症状请就医。

Rinse mouth, give water to drink.

请漱口,喝水。

医生建议/ Advice to physician No specific recommendations.





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无详细建议。

5	消防措施/FIRF	-FIGHTING	MFASURES)

waterspray, water mist, foam, dry chemical powder, CO₂ 灭火媒介/ Extinguishing media

喷物,水雾,泡沫,干粉灭火器,CO₂

不适用的灭火媒介 None known

/ Unsuitable extinguishing media 不知

Emits toxic fumes under fire conditions. 特殊危险/ Special exposure hazards

在火灾条件下释放有毒烟雾。

分解腐烂危险/燃烧产品/ Carbon monoxide (CO), Sulfur oxides (SO_x), nitrous gases

Hazardous decomposition/ (NO_x) .

combustion products 一氧化碳,硫的氧化物,氮的氧化物。

Wear self contained breathing apparatus. 保护设备/ Protective equipment

需配戴空气呼吸器。

Do not allow run-off from fire fighting to enter drains or

其他信息/ Other information water courses.

避免消防水接触下水道, 土地或水源。

6. 泄露应急处理(ACCIDENTAL RELEASE MEASURES)

For personal protection see Section 8. Avoid dust 个人防范/ Personal precautions

generation.

对于个人防范请参照第8部分。避免粉尘的产生。

Avoid discharge into the environment. 环境预防/ Environmental precautions

避免流入环境之中。

Collect as much as possible in a clean container for

(preferable) reuse or disposal.

尽可能的将其收集在清洁的容器里以便回收或集中处理。

7.操作处置与储存(HANDLING AND STORAGE)

清洁处理方法/ Methods for cleaning up

Avoid contact with skin. Avoid dust generation.

The usual precautions for handling chemicals should be

observed

避免接触皮肤。 避免产生粉尘。 应遵守处理化学品的通常预防措施。

Store in a dry and cool place.

储存要求/ Storage requirements 储存于干燥与阴凉的地方。

8. 接触控制/个体防护(EXPOSURE CONTROLS/PERSONAL PROTECTION)

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。

暴露限制/ Exposure limits

操作处置/ Handling

名称/ Name: 二丁基二硫代氨基甲酸锌

工程学控制/ Engineering controls

Zinc Dibutyl dithiocarbamate

OES-TWA 10.0 mg/m3 (total inhalable dust)

个体防护/ Personal protection





呼吸器/ Respiratory

皮肤和身体/ Skin and body

手/ Hand

眼/ Eye

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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。

Wear suitable gloves.

佩戴相应的长手套。

Wear safety goggles.

佩戴防护眼罩。

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)

All with a m	White granule	nite granule	
外观/ Appearance	白色颗粒	颜色/ Colour	白色
气味/ Odour		沸点/ Boiling point	
熔点/ Melting point≥	104℃	闪点/ Flash point	
易燃性/ Flammability		爆炸极限/ Explosion limits	
爆炸性/ Explosive properties		自燃温度/ Auto ignition temperature	
氧化性/ Oxidizing properties	-	蒸汽压/ Vapour pressure	
比重/ Density	1.24 g/cm³ (20°C)	体积密度/ Bulk density	
溶解性/	Insoluble in water	在其它溶剂中的溶解性	Acetone, CS ₂
Solubility in water	不溶于水	Solubility in other solvents	丙酮,CS ₂
PH 值/ pH value		分解系数/ Partition coefficient	
Strength of grain(N) 颗粒强度	0.6-2.5	相对蒸汽密度/ (air=1) Relative vapour density	
粘性/ Viscosity		纯度/Assay content % ≥	95
水溶性锌盐/Soluble Zinc	≤0.3		
content %			

10. 稳定性和反应性(STABILITY AND REACTIVITY)

	Stable under recommended storage and handling conditions	
稳定性/ Stability	(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.	
应避免的情况/ Conditions to avoid	加热> 100°C: 可能着火。	
应避免的物质/ Materials to avoid	No specific recommendations.	
应避免的物质/ Materials to avoid	无特殊推荐。	
碎灰八烟季串种文口/	Thermal decomposition products: carbon monoxide (CO),	
腐烂分解毒害性产品/	nitrous gases (NOx), Sulfur oxides (SOx).	
Hazardous decomposition products	热分解产物:一氧化碳(CO),亚硝气(NOx),硫氧化物	





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(SOx)。

11. 毒理学资料(TOXICOLOGICAL INFORMATION)

名称/ Name 二丁基二硫代氨基甲酸锌/ Zinc Dibutyl dithiocarbamate

敏感性毒害/ Acute toxicity

口头的/ Oral LD50 老鼠/ rat: >5000 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不足以分类。

Blightly irritating to eyes but not sufficient for classification. 眼睛/ Eye

对眼睛有轻微刺激但不足以分类。

12. 生态学资料(ECOLOGICAL INFORMATION)

名称/ Name 二丁基二硫代氨基甲酸锌/ Zinc Dibutyl dithiocarbamate

生态学/ Ecotoxicity

产品/ Product

鱼/ fish No effects up to 16 mg/l (Saturated solution)

13. 废弃处理(DISPOSAL CONSIDERATIONS)

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。

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. 包装污染/ Contaminated packaging

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)

其他信息/ Other information





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14.1 UN-Number		
DOT, ADR, IMDG, IATA	Not regulated	
14.2 UN proper shipping name:		
DOT	Not regulated	
ADR	ENVIRONMENTALLY HAZARDOUS SUBSTANCE SOLID,N.O.S.(zinc bis (dibutyldithiocarbamate)	
IMDG	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc bis (dibutyldithiocarbamate), MARINE POLLUTANT	
IATA	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc bis (dibutyldithiocarbamate)	
14.3 Transport hazard class(es)		
DOT Class ADR	Not regulated	
(*)	Label: 9	
₼	Label: 9	
14.4 Packing group		
DOT	N/A	
ADR, IMDG, IATA		
14.5 Environmentalhazards	Productcontainsenvironmentallyhazardoussubstances:zinc bis (dibutyldithiocarbamate)	
Marine pollutant	Yes Symbol (fish and tree)	
Special Marking (ADR)	Symbol(fishandtree)	
Special Marking (IATA)	Symbol(fishandtree)	
14.6.Special precautionsfor user	Warning: Miscellaneous dangerous substances and articles.	
Danger code (Kemler)		
EMS Number	F-A,S-F	
14.7 Transport in bulk according to Annex II of MARPOL	.73/78 and the IBC Code:Not applicable. Transport/Additional information	
ADR		
Limited quantities (LQ)	5kg	
Transport category	3	
Tunnel restriction code	E	
UN "Model Regulation"	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (zinc bis	

15. 法规信息(REGULATORY INFORMATION)

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture United States (USA)

Substance is not listed.		
Zinc Compounds.		
Substance is listed.		
Proposition 65 (California)		
Substance is not listed.		
•		





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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.			
Canada				
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.

Relevant phrases

H304 May be fatal if swallowed and enters

airways. R65 Harmful: may cause lung

damage if swallowed. 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)