			ver	SION 1.2		Ne	13101	uale: 25/	• • • •
entification of the substance and of the	company/under	taking	1						
1.1 Product identifier:									
Identification on the label/Trade name	R	Rubbe	Accele	rator N	DBC				
Additional identification:	N	lickel	bis(dibu	tvldithi	ocarb	amate)			
Identification of the product:	C	·^c#1'	8927_77	-0· =0#	237-6	396-2			
Index Number		A0# 1	-	-0, EC#	201-0	50-2			
Index Number.	N								
REACH registration No.:	N Stance and uses	ocava							
1.2 Relevant luentified uses of the Subs	stance and uses	auvis	eu ayan	151.					
Lised as vulcanization accelerator in r	ubber goods mar	nufact	uro						
		luidot	ure.						
1.2.2 Uses advised against:									
1 3 Dotails of the supplier of the safety	data shoot:								
Supplier(Only representative):	Chemical In	enactio	n & Poqu	ulation S	onvice	Limited			
Supplier(Manufacturer):	Shandhai Ro	speciio skom li	ndustrial			Linited			
Address	9D, Double	Dove	Great	Tower.	438.	Pudian	Road	Shandhai	i, 2
, idu 000.	P.R.CHINA			,	,				,
Contact person(E-mail):	-								
Telephone:	+86-21-5081	12951							
Fax:	+86-21-5881	18728							
1.4 Emergency telephone Number:									
+353 41 980 6916								1	
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification:	YES					NO	X		
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification:	YES					NO	X	<u> </u>	
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories	YES Hazard stat	tement				NO	<u>x</u>		
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified	YES Hazard stat	tement				NO	<u>x</u>		
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified	YES Hazard stat	tement				NO	<u>x</u>		
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2	YES Hazard stat	tement				<u>NO</u>	<u>x</u>		
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics	Hazard stat	tement				<u>NO</u>			
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified	YES Hazard stat	tement				<u>NO</u>			
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified	YES Hazard stat	tement				NO			
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16.	YES Hazard stat	tement							
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. Z.1.2 The most important adverse effects	YES Hazard stat	tement							
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. 2.1.2 The most important adverse effects 2.1.2 The most important adverse physic	YES Hazard stat	tement				NO			
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. 2.1.2 The most important adverse effects 2.1.2.1 The most important adverse physic	YES Hazard stat	tement							
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. 2.1.2 The most important adverse effects 2.1.2.1 The most important adverse physic Not applicable.	YES Hazard stat	tement							
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. 2.1.2 The most important adverse effects 2.1.2.1 The most important adverse physic Not applicable. 2.1.2.2 The most important adverse human	YES Hazard stat Hazard stat R-Phrases Cochemical effects:	tement							
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. 2.1.2 The most important adverse effects 2.1.2.1 The most important adverse human Not applicable. 2.1.2.2 The most important adverse human Not applicable 2.1.2.3 The most important adverse enviro	YES Hazard stat	tement							
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. 2.1.2 The most important adverse effects 2.1.2.1 The most important adverse physic Not applicable. 2.1.2.3 The most important adverse environ Not applicable.	YES Hazard stat	tement							
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. 2.1.2 The most important adverse effects 2.1.2.1 The most important adverse physic Not applicable. 2.1.2.3 The most important adverse human Not applicable. 2.1.2.3 The most important adverse environ Not applicable. 2.1.2.3 The most important adverse environ Not applicable. 2.2 label elements	YES Hazard stat	tement							
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. 2.1.2 The most important adverse effects 2.1.2.1 The most important adverse physic Not applicable. 2.1.2.3 The most important adverse human Not applicable 2.1.2.3 The most important adverse environ Not applicable. 2.2.1abel elements Hazard Pictograms:	YES Hazard stat	tement							
Available outside office hours? azards Identification 2.1 Classification of the substance 2.1.1 Classification: Hazard classes/Hazard categories Not Classified For full text of H- phrases: see section 2.2. Hazards characteristics Not Classified For full text of R- phrases: see section 16. 2.1.2 The most important adverse effects 2.1.2.1 The most important adverse physic Not applicable. 2.1.2.3 The most important adverse human Not applicable 2.1.2.3 The most important adverse environ Not applicable. 2.2 label elements Hazard Pictograms: Not listed Signal Word(S): Not listed	YES Hazard stat	tement							

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Precautionary Statement:	Not listed					
2.30(net nazarus	Substance is an endocr	ine disruntor etc.)				
3 Composition/information on						
Substance/Mixture: S Ingredient(s):	ubstance					
Chemical Name	Registration No.	CAS No.	EC No.	Concentration		
Nickel bis(dibutyldithiocarbamate)	N/A	13927-77-0	237-696-2	95 - 99%		
4 First aid measures						
4 1 Description of first aid	measures.					
In all cases of doubt, or who	en symptoms persist, s	eek medical attention				
4.1.1 In case of inhalation:						
Remove from exposure site 4.1.2 In case of skin contact:	e to fresh air and keep a	at rest. Obtainmedical	advice.			
Remove any contaminated irritationpersists or any sigr <i>4.1.3 In case of eyes contact:</i>	clothing or shoes. Wa of tissue damage is a	ash affected areastho oparent, seek medical	roughly with soap and attention.	water for at least 15 minutes. If		
Rinse immediately and as le rinsing. Seek medical advic <i>4.1.4 In case of ingestion:</i>	Rinse immediately and as long as possible with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation persists 4.1.4 In case of ingestion:					
Rinse mouth. Give water to	drink.					
4.2 Most important sympto	oms and effects, bo	oth acute and delay	ved			
May cause an allergic skin 4 3 Indication of any immedia	reaction. Ite medical attention	n and special treat	ment needed			
If skin irritation or rashoccurs, get medical advice/attention.						
5 Fire-Fighting measures						
5.1 Extinguishing media:						
Suitable extinguishing media: Water fog, carbon dioxide, foam, dry chemical.						
Unsuitable extinguishing media: Not available.						
5.2 Special hazards arising from the substance or mixture						
Toxic emissions may result if product is involved in a fire. Fire can produce toxic hydrogen cyanide, sulfur						
dioxide, oxides of nitrogen and oxides of nickel. Minimum Ignition Energy (MIE) = < 3 MJ.						
Do not stav in danger	5.3Advice for fire-fighters: Do not stay in dangerous zone without self-contained breathing apparatus					
In order to avoid conta	act with skin, keep a	a safety distance a	nd wear suitable pro	tective clothing.		
Do not allow run-off fr	Do not allow run-off from fire fighting to enter drains or water course.					
6 Accidental release measure	<u> </u>					
6.1 Personal precautions,	protective equipme	ent and emergency	procedures:			

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6.1.1 For non-emergency personnel:		
Remove ignition sources. Provide adequate ventilation. Avoid inhalation protective gloves/protective clothing/eye protection/face protection.	on of vapor or dust. Av	oid skin and eye contact. Wear
6.1.2 For emergency responders:		
Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is ge	enerated.	
6.2 Environmental Precautions:		
Prevent further leakage or spillage if safe to do so. Do not let	product enter drain	S.
Discharge into the environment must be avoided.		
6.3 Methods for Containment and Cleaning up:		
Spill Procedures: Wear protective equipment specified. Av	void the generation of	of dust. Sweep, vacuum, or
shovel and place into closable container for disposal.		
Procedure for Cleaning/Absorption: Isolate area and remo electrical current, and RF energy. Scoop up and remove. Do	ve sources of friction NOT spread spilled	on, impact, heat, low level product with water.
6.4 Reference to other sections: See Section 7 for information on safe handling. See section 8 for information on personal protection equipment. See Section 13 for information on disposal.		
6.5 Additional information:		
Wet clean or vacuum up solids.		
Don't use a brush or compressed air for cleaning surfaces or clothing.		
Clear spills immediately.		
7 Handling and storage		
7.1 Precautions for safe handling:		
7.1.1 Protective measures:		
Do not breathe dusts/vapor. Handle in well ventilated areas. Eliminate sparks. Take precautionary measures against static discharges.	e all sources of ignition	, and do not generatenames or
Do not eat, drink and smoke in work areas. Wash hands after use. Remove co	ontaminated clothing an	d protective equipment before
entering eating areas. Good hygienic practices should be observed. W each work day. Disposable clothing should be discarded with material.	ork clothes should be w	ashed separately at the end of
7.2 Conditions for safe storage, including any incompatibilities:		
Store closed containers in a cool, dry, well-ventilated area. Store aw direct sunlight. Do not store near Insoluble Sulfur. Slowly degrade conditions	ay from strong oxidizir as and releases irritati	ng materials. Avoid exposure to ng vapors under warm, humid
7.3 Specific end use(s):		
Not applicable.		
8 Exposure control/personal protection		
8 1 Control parameters:		
8.1.1 Occupational exposure limits:		
Air exposure limits for Nickel Compounds: OSHA PEL/8Hr TWA = 1mg/	/m ³ ; ACGIH TLV/8Hr	TWA = 1 mg/m ³ ;
NIOSH REL= 15 mg/m3:		3
8.1.2 Additional exposure limits under the conditions of use: Not a	available.	
8.1.3 DNEL/DMEL and PNEC-Values: Not available.		

8.2 Exposure controls

8.2.1Appropriate engineering controls:

General; local exhaust ventilation as necessary to control any air contaminants to withintheir exposure limits during the use of this product. Adequate ventilation should be provided to keep dust concentrations below acceptable exposure limits. Discharge from theventilation system should comply with the applicable air pollutions control regulations. Eliminate ignition sources.

8.2.2 Individual protection measures, such as personal protective equipment:

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	Eye/face protection	Wear appreciate goggles to prevent eye exposure.			
	Hand protection	Wear appreciategloves to prevent skin exposure.			
	Body protection	Wear suitable protective clothing to prevent skin ex	cposure.		
	Respiratory protection	Appropriate respiratory protection shall be worn when applied engineering controls are notadequate to protect against inhalation exposure. Firefighting; use a Positive PressureDemand Full Face Self Contained Breathing Apparatus.			
	Thermal hazards	Wear suitable protective clothing to prevent heat.			
	8.2.3 Environmental exp	osure controls:			
	Avoid discharge into the e	nvironment. This material and its container must be dis	sposedof as l	nazardous waste.	
	According to local regulati	ons, Federal and official regulations.			

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9 Physical and chemical properties			
9.1 Information on basic physical and	chemical properties		
Appearance:	Powder, solid		
Colour:	Green		
Odour:	Characteristic odour		
pH:	No data available.		
Melting point:	185 °F/ 86 °C		
Density:	1.3 g/cm ³		
Boiling point:	Not determined.		
Specific gravity:	1.26 at 20 °C		
Bulk density:	300-340 kg/m³ at 20°C		
Vapor pressure:	Negligible at 20°C		
Partition coefficient (n -octanol/water):	Log Pow = 5.44 [Calculated	d]	
Solubility(ies):	Practically insoluble in wate	er.	
	Soluble in benzene, ca	arbon disulfide,	organic liquids,
	including fats and oils acet	one.	- ·
Flash point:	500°F / 260°C		
Auto-ignition temperature:	Not determined.		
Explosive properties:	No data available.		
Oxidising properties:	No data available.		
9.2. Other information: Volatile by volume:	0.5% Max.		
Nickel content:	11 5 - 13 5%		
Loss on drving.	0.5% Max		
Oil content:	0 - 2% (Upon buy)	er's request)	
Residue on 63um sieve:	0 5% Max		
	0.070 Max		
10.1 Reactivity: The substance is stable under norma	al storage and handling conditions.		
10.2Chemical stability:			
Stable when stored at room tempera	ture in closed, original container.	Stable undernormal	conditions of handling, use and
transportation. Stable if protected fro	m heatand exposure to air. Loses	potency with time Pl	rotect from moistureStable when
transportation. Stable if protected fro	m heatand exposure to air Loses	potency with time P	rotect from moisture
10.3Possibility of hazardous reactions		potency with time r	
Under normal conditions, not hazard	ous reactions will occur.		
10.4 Conditions to avoid:			
Keep away from heat,sparks and fla	me.		
10.5Incompatible materials:	· · · · · ·		
Avoid contact with strong acids	, strong oxidizing agents.		
10.6 Hazardous decomposition produc	STS:		

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Carbon monoxide Oxides of nitro	gen Oxides of sulfur Amines				
11 Toxicological information					
11.1 Toxicokinetics, metabolism and	distribution				
Non-human toxikological data:	Not available				
Method:	Not available				
Dosis:	Not available				
Routes of administration:	Not available				
Results:	Not available				
Absorption:	Not available				
Distribution:	Not available				
Metabolism:	Not available				
Excretion:	Not available				
11.2 Information on toxicological ef	fects				
Acute toxicity:					
LD50(Oral, Rat):	LD ₅₀ > 5000 mg/kg (rat);				
LD50(Dermal Rabbit):	LD ₅₀ > 2000 mg/kg (rabbit);				
LD50(Inhalation, Rat):	Not Determined. No mortalities in rats exposed to concentrations of 0.416 mg/L.				
Skin corrosion/Irritation:	Slightly irritating to skinbut not sufficient for classification.				
Serious eye damage/irritation:	Slightly irritating to eyes but not sufficient for classification.				
Respiratory or skin sensitization:	No relevant information available. Prolonged or repeated contact with skin can cause allergic reactions in susceptible persons.				
Germ cell mutagenicity:	Not classified				
Carcinogenicity:	Negative in standard tests using bacteria and yeast cells. (NOTE: ACGIH Status: Confirmed Carcinogen. NTP Status: Anticipated Human Carcinogen.)				
reproductive toxicity:	Not classified				
STOT- single exposure:	Not classified				
STOT-repeated exposure:	Not classified				
Aspiration hazard:	Not classified				
12 Ecological information					
<i>Toxicity:</i> N/A					

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Persistence and degradability:	N//	A			
Bioaccumulative potential: Log Pow = 5.44 [Calculated]; E [calculated]; Similar compounds sh and environmental persistent.				ration Factor [BCF] = 307 potential for bioaccumulation	
Mobility in soil:	No	t available.			
Results of PBT&vPvB assessme	ent: No	t available.			
Other adverse effects:	No	t applicable.			
13 Disposal considerations					
13.1 Waste treatment meth	ods				
This product, if dis approved incinerat laws and regulation requirements are disposal selected. 13.2 Product / Packaging c If empty container	posed as rec or according ns will deterr dependent of <i>lisposal:</i> retains proc	ceived, is a non-l to federal, state nine the proper v on the hazard o luct residues, all	hazardous waste. Bury in a , and local regulations. Fee waste disposal/recycling/rec lassification and will vary label precautions must be	licensed landfill or burn in an Jeral, state and local disposal lamation procedure. Disposal by location and the type of e observed. Transport with all	
closures in place. container. Dispose	Return for re	use or dispose a according to nat	according to national or loc ional or local regulations.	al regulations. Do NOT reuse	
14 Transport information		g			
	Land trans	port (ADR/RID)	Sea transport (IMDG)	Airtransport(ICAO/IATA)	
UN-Number:	Nc	t listed	Not listed	Not listed	
UN Proper shipping name:	Nc	t listed	Not listed	Not listed	
Transport hazard Class:	Nc	t listed	Not listed	Not listed	
Packaging group:	Nc	t listed	Not listed	Not listed	
15 Regulation information 15.1Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant information regarding authorization: Not applicable. Relevant information regarding restriction: Not applicable. Other EU regulations: Employment restrictions concerning young person must be observed. For use only by technically qualified individuals. Other National regulations: Not applicable Chemical Safety Assessment has been carried out? YES NO X					
16 Other information					
16.1 Indication of changes Version 1.1 Amended by EU No 453/2010 16.2 Relevant R- phrases (number and full text):					
Not listed 16.3 Training instructions: Not applicable 16.4 Further information: This informatio intended for thi	n is based up s product.	on the present stat	e of our knowledge. This SDS	has been compiled and is solely	

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16.5 Notic	e to reader:		
	Employers should use this information only as a supp make independent judgment of suitability of this informa of employees.	lement to other information to ensure proper u	ation gathered by them, and should se and protect the health and safety
	This information is furnished without warranty, and any Sheet, or in combination with any other product or proce	use of the product not in ess, is the responsibility	n conformance with this Safety Data of the user.

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