

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

1 Identification of the substance and of the company/undertaking

1.1 Product identifier:

Identification on the label/Trade name:	Rubber Accelerator NDBC
Additional identification:	Nickel bis(dibutyl)dithiocarbamate)
Identification of the product:	CAS#13927-77-0; EC#237-696-2
Index Number:	Not listed
REACH registration No.:	Not available

1.2 Relevant identified uses of the substance and uses advised against:

1.2.1 Identified uses:

Used as vulcanization accelerator in rubber goods manufacture.

1.2.2 Uses advised against:

Not available.

1.3 Details of the supplier of the safety data sheet:

Supplier(Only representative):	Chemical Inspection & Regulation Service Limited
Supplier(Manufacturer):	Shanghai Rokem Industrial Co., Ltd
Address:	9D, Double Dove Great Tower, 438, Pudian Road, Shanghai, 200122, P.R.CHINA
Contact person(E-mail):	-
Telephone:	+86-21-50812951
Fax:	+86-21-58818728

1.4 Emergency telephone Number:

+353 41 980 6916

Available outside office hours?

YES

NO

2 Hazards Identification

2.1 Classification of the substance

2.1.1 Classification:

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

The substance is classified as following according to 67/548/EEC and REGULATION (EC) No 1272/2008:

REGULATION (EC) No 1272/2008	
Hazard classes/Hazard categories	Hazard statement
Not Classified	

For full text of H- phrases: see section 2.2.

67/548/EEC	
Hazards characteristics	R-Phrases
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 physicochemical effects:

Not applicable.

2.1.2.2 The most important adverse human health effects:

Not applicable

2.1.2.3 The most important adverse environmental effects:

Not applicable.

2.2 label elements

Hazard Pictograms: Not listed

Signal Word(S): Not listed

Hazard Statement: Not listed

Precautionary Statement: Not listed

2.3 Other hazards

Not available (PBT,vPvB, Substance is an endocrine disruptor etc.)

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

3 Composition/information on ingredients

Substance/Mixture: Substance

Ingredient(s):

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 when symptoms persist, seek medical attention.

4.1.1 In case of inhalation:

Remove from exposure site to fresh air and keep at rest. Obtain medical advice.

4.1.2 In case of skin contact:

Remove any contaminated clothing or shoes. Wash affected area thoroughly with soap and water for at least 15 minutes. If irritation persists or any sign of tissue damage is apparent, seek medical attention.

4.1.3 In case of eyes contact:

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 symptoms and effects, both acute and delayed

May cause an allergic skin reaction.

4.3 Indication of any immediate medical attention and special treatment needed

If skin irritation or rash occurs, get medical advice/attention.

5 Fire-Fighting measures

5.1 Extinguishing media:

Suitable extinguishing media: Water fog, carbon dioxide, foam, dry chemical.

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

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.

5.3 Advice for fire-fighters:

Do not stay in dangerous zone without self-contained breathing apparatus.

In order to avoid contact with skin, keep a safety distance and wear suitable protective clothing.

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

6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency personnel:

Remove ignition sources. Provide adequate ventilation. Avoid inhalation of vapor or dust. Avoid skin and eye contact. Wear protective gloves/protective clothing/eye protection/face protection.

6.1.2 For emergency responders:

Wear an appropriate NIOSH/MSHA approved respirator if mist, vapor or dust is generated.

6.2 Environmental Precautions:

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Discharge into the environment must be avoided.

6.3 Methods for Containment and Cleaning up:

Spill Procedures: Wear protective equipment specified. Avoid the generation of dust. Sweep, vacuum, or shovel and place into closable container for disposal.

Procedure for Cleaning/Absorption: Isolate area and remove sources of friction, impact, heat, low level electrical current, and RF energy. Scoop up and remove. Do NOT spread spilled 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.

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

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 all sources of ignition, and do not generate flames or sparks. Take precautionary measures against static discharges.

7.1.2 Advice on general occupational hygiene:

Do not eat, drink and smoke in work areas. Wash hands after use. Remove contaminated clothing and protective equipment before entering eating areas. Good hygienic practices should be observed. Work clothes should be washed separately at the end of each work day. Disposable clothing should be discarded with material.

7.2 Conditions for safe storage, including any incompatibilities:

Store closed containers in a cool, dry, well-ventilated area. Store away from strong oxidizing materials. Avoid exposure to direct sunlight. Do not store near Insoluble Sulfur. Slowly degrades and releases irritating vapors under warm, humid conditions.

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/m³; ACGIH TLV/8Hr TWA = 1 mg/m³;

NIOSH REL= 15 mg/m³;

8.1.2 Additional exposure limits under the conditions of use: Not available.

8.1.3 DNEL/DMEL and PNEC-Values: Not available.

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

General; local exhaust ventilation as necessary to control any air contaminants to within their exposure limits during the use of

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

this product. Adequate ventilation should be provided to keep dust concentrations below acceptable exposure limits. Discharge from the ventilation system should comply with the applicable air pollution control regulations. Eliminate ignition sources.

8.2.2 Individual protection measures, such as personal protective equipment:

Eye/face protection	Wear appropriate goggles to prevent eye exposure.
Hand protection	Wear appropriate gloves to prevent skin exposure.
Body protection	Wear suitable protective clothing to prevent skin exposure.
Respiratory protection	Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure. Firefighting; use a Positive Pressure Demand Full Face Self Contained Breathing Apparatus.
Thermal hazards	Wear suitable protective clothing to prevent heat.

8.2.3 Environmental exposure controls:

Avoid discharge into the environment. This material and its container must be disposed of as hazardous waste.

According to local regulations, Federal and official regulations.

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

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/m ³ at 20°C
Vapor pressure:	Negligible at 20°C
Partition coefficient (n -octanol/water):	Log Pow = 5.44 [Calculated]
Solubility(ies):	Practically insoluble in water. Soluble in benzene, carbon disulfide, organic liquids, including fats and oils acetone.
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:

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

Volatile by volume:	0.5% Max.
Nickel content:	11.5 - 13.5%
Loss on drying:	0.5% Max
Oil content:	0 - 2% (Upon buyer's request)
Residue on 63um sieve:	0.5% Max

10 Stability and reactivity

10.1 Reactivity:

The substance is stable under normal storage and handling conditions.

10.2 Chemical stability:

Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. Stable if protected from heat and exposure to air. Loses potency with time. Protect from moisture. Stable when stored at room temperature in closed, original container. Stable under normal conditions of handling, use and transportation. Stable if protected from heat and exposure to air. Loses potency with time. Protect from moisture.

10.3 Possibility of hazardous reactions:

Under normal conditions, not hazardous reactions will occur.

10.4 Conditions to avoid:

Keep away from heat, sparks and flame.

10.5 Incompatible materials:

Avoid contact with strong acids, strong oxidizing agents.

10.6 Hazardous decomposition products:

Carbon monoxide Oxides of nitrogen Oxides of sulfur Amines

11 Toxicological information

11.1 Toxicokinetics, metabolism and distribution

<i>Non-human toxicological data:</i>	Not available
---	---------------

<i>Method:</i>	Not available
-----------------------	---------------

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

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 effects	
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 skin but 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

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

STOT- single exposure:	Not classified		
STOT-repeated exposure:	Not classified		
Aspiration hazard:	Not classified		
12 Ecological information			
Toxicity: N/A			
Persistence and degradability:	N/A		
Bioaccumulative potential:	Log Pow = 5.44 [Calculated]; Bioconcentration Factor [BCF] = 307 [calculated]; Similar compounds show a low potential for bioaccumulation and environmental persistent.		
Mobility in soil:	Not available.		
Results of PBT&vPvB assessment:	Not available.		
Other adverse effects:	Not applicable.		
13 Disposal considerations			
13.1 Waste treatment methods This product, if disposed as received, is a non-hazardous waste. Bury in a licensed landfill or burn in an approved incinerator according to federal, state, and local regulations. Federal, state and local disposal laws and regulations will determine the proper waste disposal/recycling/reclamation procedure. Disposal requirements are dependent on the hazard classification and will vary by location and the type of disposal selected.			
13.2 Product / Packaging disposal: If empty container retains product residues, all label precautions must be observed. Transport with all closures in place. Return for reuse or dispose according to national or local regulations. Do NOT reuse container. Dispose of container according to national or local regulations.			
14 Transport information			
	Land transport (ADR/RID)	Sea transport (IMDG)	Airtransport(ICA0/IATA)

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

UN-Number:	Not listed	Not listed	Not listed
UN Proper shipping name:	Not listed	Not listed	Not listed
Transport hazard Class:	Not listed	Not listed	Not listed
Packaging group:	Not listed	Not listed	Not listed

15 Regulation information

15.1 Safety, 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

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 information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

16.5 Notice to reader:

Employers should use this information only as a supplement to other information gathered by them, and should make independent judgment of suitability of this information to ensure proper use and protect the health and safety of employees.

This information is furnished without warranty, and any use of the product not in conformance with this Safety Data

Safety Data Sheet

According to Regulation (EU) No. 1907/2006, Annex II,

According to Regulation (EU) No. 1272/2008,

Amended by REGULATION (EU) No 453/2010

Rubber Accelerator NDBC

Printing date: 16/04/2015 Version 1.1 Revision date: 16/04/2015

Sheet, or in combination with any other product or process, is the responsibility of the user.