

# SAFETY DATA SHEET

Regulation (EC) No 1907/2006 (REACH)

(COMMISSION REGULATION (EU) No 453/2010, COMMISSION REGULATION (EU) 2015/830)

Version 1  
Product Name NDBC

Issue Date 08-Sep-2019  
Revision date 08-Sep-2019

## SECTION 1: Identification of the substance /mixture and of the company/undertaking

### 1.1. Product identifier

Product Name	NDBC
Synonyms	Nickel dibutyldithiocarbamate
CAS No	13927-77-0
EC No	237-696-2
REACH registration number	No information available

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Recommended Use	Industrial use
Uses advised against	No information available

### 1.3. Details of the supplier of the safety data sheet

Only representative	Chemical Inspection & Regulation Service Limited
Address	
E-mail	

Supplier	QINGDAO YLSCH INDUSTRY&TRADE CO.,LTD.
Address	2-3 UNIT NO.8,ZHENGZHOU ROAD,QINGDAO,CHINA
Postal Code	266001
Phone	+86-532-87691278
FAX	+86-532-87691278
E-mail	SALES@YLSCH-RBB.COM

Importer	
Address	
Postal Code	
Phone	
FAX	
E-mail	

### 1.4. Emergency telephone number

+86-18661665800(only working hours)  
+353 41 980 6916 (Not available outside office hours)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

Serious Eye Damage / Eye Irritation Eye Irrit. 2 - (H319)

Skin Sensitisation Skin Sens. 1 - (H317)

Respiratory Sensitisation Resp. Sens. 1 - (H334)

Carcinogenicity Carc. 1A - (H350)

Hazardous to the aquatic environment - chronic Aquatic Chronic 4 - (H413)

## 2.2. Label elements

Symbols/Pictograms



Signal word

Warning

Hazard Statements

H319 - Causes serious eye irritation

H317 - May cause an allergic skin reaction

H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled

H350 - May cause cancer

H413 - May cause long lasting harmful effects to aquatic life

Precautionary Statements

P201 - Obtain special instructions before use

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P270 - Do not eat, drink or smoke when using this product

P273 - Avoid release to the environment

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

P313 - Get medical advice/attention

EU Specific Hazard Statements None

## 2.3. Other hazards

No information available.

## SECTION 3: Composition/information on ingredients

### 3.1 Substance

Chemical Name	EC No	CAS No	Weight-%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Nickel dibutylthiocarbamate	237-696-2	13927-77-0	98.5	Eye Irrit. 2 H319 Skin Sens. 1 H317 Resp. Sens. 1 H334 Carc. 1A H350 Aquatic Chronic 4 H413

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

Remove contaminated clothing and shoes. If symptoms persist, call a physician.

#### Inhalation

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell

**Skin Contact**

IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

**Eye contact**

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.

**Ingestion**

Rinse mouth. IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

**4.2. Most important symptoms and effects, both acute and delayed**

Harmful if swallowed. Harmful by inhalation. Suspected of damaging fertility or the unborn child. May cause damage to organs through prolonged or repeated exposure.

**4.3. Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

**Suitable extinguishing media**

Dry chemical powder.

**Unsuitable extinguishing media**

Water jet.

**5.2. Special hazards arising from the substance or mixture**

Dusts may form explosive mixtures in air. Thermal decomposition can lead to release of irritating and toxic gases and vapors: hydrogen cyanide (HCN), sulphur dioxide (SO<sub>2</sub>), nitrous gases (NO<sub>x</sub>), Nickel oxides.

**5.3. Advice for firefighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Remove all sources of ignition. Do not touch or walk through spilled material. Avoid contact with skin, eyes or clothing. Avoid breathing dust/fume/gas/mist/vapors/spray. Use personal protection recommended in Section 8.

**6.2. Environmental precautions**

Local authorities should be advised if significant spillages cannot be contained. Avoid release to the environment. Prevent entry into waterways, sewers, basements or confined areas.

**6.3. Methods and material for containment and cleaning up**

Sweep up and shovel into suitable containers for disposal.

**6.4. Reference to other sections**

See Section 7 for more information

See section 8 for more information

See section 13 for more information

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Ensure adequate ventilation, especially in confined areas. Use only outdoors or in a well-ventilated area. Avoid contact with skin, eyes or clothing. Do not breathe dust/fume/gas/mist/vapors/spray. Wash contaminated clothing before reuse. Take precautionary measures against static discharges. Do not eat, drink or smoke when using this product. Wash thoroughly after handling. Use personal protection recommended in Section 8. Avoid release to the environment.

### 7.2. Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from heat. Keep locked up and out of reach of children. Store in accordance with local regulations.

### 7.3. Specific end use(s)

Apart from the uses mentioned in SECTION 1.2 no other specific uses are stipulated.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

#### Derived No Effect Level (DNEL)

No information available

#### Predicted No Effect Concentration (PNEC)

No information available

### 8.2. Exposure controls

#### Engineering Controls

Showers. Eyewash stations. Ventilation systems. Ensure adequate ventilation, especially in confined areas.

#### Personal protective equipment

Eye/face protection                      Wear safety glasses with side shields (or goggles).

Hand Protection                              Wear protective gloves.

Skin and body protection                  Suitable protective clothing.

Respiratory protection                      In case of insufficient ventilation, wear suitable respiratory equipment.

#### Environmental exposure controls

Avoid release to the environment.

## SECTION 9: Physical and chemical properties

**9.1. Information on basic physical and chemical properties**

Appearance	Solid (powder)
Color	Olive-green
Odor	Odorless
Odor Threshold	Not determined
pH	Not determined
Melting point	84°C
Boiling point / boiling range	Not determined
Flash point	Not determined
Evaporation rate	Not determined
Flammability (solid, gas)	Not flammable
Flammability Limit in Air	Not determined
Vapor Pressure	Not determined
Vapor density	Not determined
Density	1.26 g/cm <sup>3</sup> @ 20 °C
Relative density	Not determined
Bulk density	Not determined
Water solubility	Not determined
Partition coefficient (LogPow)	Not determined
Autoignition temperature	Not determined
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Explosive properties	Not an explosive
Oxidizing properties	Not determined

**9.2. Other information**

No information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Stable under recommended storage and handling conditions (see SECTION 7, handling and storage).

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

None under normal processing.

**10.4. Conditions to avoid**

Strong heating. Incompatible materials.

**10.5. Incompatible materials**

Strong oxidizing agents.

**10.6. Hazardous decomposition products**

hydrogen cyanide (HCN), sulphur dioxide (SO<sub>2</sub>), nitrous gases (NO<sub>x</sub>)

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Nickel dibutylidithiocarbamate (CAS #: 13927-77-0)	340 mg/kg (Rat)	> 2000 mg/kg bw (Rat)	> 2.12 mg/L air (Rat) 4h

#### Skin corrosion/irritation

Non-irritating to the skin.

#### Serious eye damage/eye irritation

No eye irritation.

#### Sensitization

No sensitization responses were observed.

#### Germ cell mutagenicity

Not classified.

#### Carcinogenicity

Not classified.

#### Reproductive toxicity

Suspected of damaging fertility or the unborn child.

#### STOT - single exposure

Not classified.

#### STOT - repeated exposure

May cause damage to organs through prolonged or repeated exposure.

#### Aspiration hazard

Not classified.

## SECTION 12: Ecological information

### 12.1. Toxicity

Chemical Name	Algae/aquatic plants EC50	Fish LC50	Crustacea EC50
Nickel dibutylidithiocarbamate (CAS #: 13927-77-0)	-	-	NOEC = 0.0346 mg/l/21d (Daphnia magna)

### 12.2. Persistence and degradability

Not readily biodegradable.

### 12.3. Bioaccumulative potential

Chemical Name	Partition coefficient (LogPow)
Nickel dibutylthiocarbamate (CAS #: 13927-77-0)	0.3 - 0.4 @ 25°C

**12.4. Mobility in soil**

The product is moderately soluble in water.

**12.5. Results of PBT and vPvB assessment**

PBT/vPvB assessment information is not available as chemical safety assessment not conducted.

**12.6. Other adverse effects**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Waste from residues/unused products	Dispose of contents/container to industrial incineration plant. Disposal should be in accordance with applicable regional, national and local laws and regulations.
Contaminated packaging	Empty containers should be taken for local recycling, recovery or waste disposal. Disposal should be in accordance with applicable regional, national and local laws and regulations.

**SECTION 14: Transport information**

14.1 UN Number	none
14.2 Proper shipping name	not relevant
14.3 Hazard Class	not relevant
14.4 Packing Group	not relevant
14.5 Environmental hazards	not relevant
14.6 Special precautions	No information available
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**  
European Union

Component	EINECS/ELINCS	SVHC candidates	RESTRICTIONS - REACH TITLE VIII
Nickel dibutylthiocarbamate (CAS #: 13927-77-0)	X	-	-

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Take note of Directive 94/33/EC on the protection of young people at work

Take note of Directive 92/85/EC on the protection of pregnant and breastfeeding women at work

### International Inventories

Component	TSCA	DSL/NDSL	ENCS	IECSC	KECL	PICCS	AICS
Nickel dibuthyldithiocarbamate (CAS #: 13927-77-0)	Listed	Listed in DSL	Listed	Listed	Listed	Listed	Listed

### 15.2. Chemical safety assessment

Chemical safety assessment has not been conducted.

## SECTION 16: Other information

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Issue Date** 08-Sep-2019  
**Revision date** 08-Sep-2019  
**Revision Note** Not applicable

### Key or legend to abbreviations and acronyms used in the safety data sheet

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

### Full text of H-Statements referred to under section 3

See Section 2

### Disclaimer

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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