

# Sovchem<sup>®</sup> NDBC

1. CHEMICAL PRODUCT & COMPANY IDENTIFICATION	
<b>Manufacturer</b> Sovereign Chemical Company 4040 Embassy Parkway, Suite 190 Akron, OH 44333	<b>Emergency Contact</b> Chemtrec: 1-800-424-9300 (continental USA) (1)703-527-3887 (outside continental USA)
<b>Trade Name(s):</b> Sovchem <sup>®</sup> NDBC	<b>Synonyms:</b> Nickel dibutyldithiocarbamate or NDBC
<b>Chemical Name:</b> Nickel, bis (dibutylcarbamodithioato-s-s')	
<b>Relevant identified uses of the substance or mixture and uses advised against:</b> No further relevant information available.	<b>Application of the substance/the preparation:</b> Initial product for chemical reactions.
<b>Issued By:</b> Sovereign Chemical Company  According to 1907/2006/EC (REACH), 1272/2008/EC (CLP), and GHS	<b>SDS Number:</b> 1849 <b>Date of Issue:</b> February 7, 2014 <b>Revision Number:</b> 2 (Supersedes: August 24, 2010) <b>Change(s):</b> Update to GHS requirement.

## 2. HAZARDS IDENTIFICATION

### 2.1 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: H350i.

The following classifications are applicable only to OSHA (USA) regulations and not the specific CLP regulation: H350.



H350: May cause cancer.



GHS08 Health hazard.

Carc. 1A  
STOT RE 1

H350i May cause cancer by inhalation.  
H372 Causes damage to organs through prolonged or repeated exposure.



GHS07  
 Eye Irrit. 2                      H319 Causes serious eye irritation.  
 Skin Sens. 1                      H317 May cause an allergic skin reaction.

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



T; Toxic  
 Carc. Cat. 1  
 R49-45-48/23/24/25: May cause cancer by inhalation. May cause cancer. Toxic: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed.



Xi; Irritant  
R36: Irritating to eyes.



Xi; Sensitizing  
R43: May cause sensitization by skin contact.

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

## 2.2 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

Signal word: Warning

Hazard-determining components of labeling: Nickel, bis(dibutylcarbamo- dithioato-s-s')

Hazard statements

The following Hazard Statements are applicable only to the EU regulations and not the US GHS regulation: H350i.

The following Hazard Statements are applicable only according to OSHA regulations within the United States. These statements are not applicable for the CLP regulation (1272/2008/EC) in the EU. H350.

H350	May cause cancer. (USA)
H319	Causes serious eye irritation.
H317	May cause an allergic skin reaction.
H350i	May cause cancer by inhalation.
H372	Causes damage to organs through prolonged or repeated exposure.

Precautionary statements

P281	Use personal protective equipment as required.
P272	Contaminated work clothing should not be allowed out of the workplace.
P260	Do not breathe 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.
P308+P313	If exposed or concerned: Get medical advice/attention.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P337+P313	If eye irritation persists: Get medical advice/attention.
P314	Get medical advice/attention if you feel unwell.
P302+P352	IF ON SKIN: Wash with plenty of soap and water.

Additional information

Contains Nickel, bis(dibutylcarbamo- dithioato-s-s'). May produce an allergic reaction.

Restricted to professional users.

Hazard description

WHMIS-symbols



D2A – Very toxic material causing other toxic effects.

NFPA ratings (scale 0-4)



Health = 3  
Fire = 1  
Reactivity = 0

HMIS ratings (scale 0-4)

HEALTH	*3
FIRE	1
REACTIVITY	0

Health = \*3  
Fire = 1  
Reactivity = 0

\* - Indicates a long-term health hazard from repeated or prolonged exposures.  
HMIS Long Term Health Hazard Substances: 13927-77-0, Nickel, bis(dibutylcarbamo- dithioato-s-s')

2.3 Other hazards  
Results of PBT and vPvB assessment  
PBT: Not applicable.  
vPvB: Not applicable.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

3.1 Substances  
CAS No., Description: 13927-77-0 Nickel, bis(dibutylcarbamo- dithioato-s-s')  
Dangerous components

CAS: 8042-47-5 EINECS: 232-455-8	White Mineral Oil  Xn R65  Asp. Tox. 1, H304	<5.0%
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Additional information: For the wording of the listed risk phrases refer to section 16.

**4. FIRST AID MEASURES**

4.1 Description of first aid measures  
General information  
Immediately remove any clothing soiled by the product.  
Symptoms of poisoning may even occur after several hours; therefore, medical observation for at least 48 hours after the accident.  
After inhalation  
Supply fresh air.  
Seek immediate medical advice.  
After skin contact  
Immediately wash with water and soap and rinse thoroughly.  
If skin irritation continues, consult a doctor.  
After eye contact  
Remove contact lenses if worn.  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.  
After swallowing  
Rinse out mouth and then drink plenty of water.  
Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed

Allergic reactions  
Gastric or intestinal disorders  
Dizziness  
Coughing  
Disorientation

Hazards

Danger of impaired breathing.  
Danger of convulsion.  
Danger of disturbed cardiac rhythm.  
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

Contains an organic nickel salt.  
Treat skin and mucous membrane with antihistamine and corticoid preparations.  
In cases of irritation to the lungs, initial treatment with cortical steroid inhalants.  
If necessary, oxygen respiration treatment.  
Medical supervision for at least 48 hours.

## 5. FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
For safety reasons, unsuitable extinguishing agents: None.

5.2 Special hazards arising from the substance or mixture: Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters

Protective equipment

Wear self-contained respiratory protective device.  
Wear fully protective suit.

Additional information: Cool endangered receptacles with water spray.

## 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective equipment. Keep unprotected persons away.  
Use respiratory protective device against the effects of fumes/dust/aerosol.  
Isolate area and prevent access.  
Ensure adequate ventilation

6.2 Environmental precautions

Do not allow to enter sewers/ surface or ground water.  
Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up

Pick up mechanically.  
Do not flush with water or aqueous cleansing agents

Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation

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 disposal information.

**7. HANDLING AND STORAGE**

7.1 Precautions for safe handling

Prevent formation of dust.  
Take note of emission threshold.  
Do not dry clean dust covered objects and floors. Wash thoroughly with plenty of water.  
Any unavoidable deposit of dust must be regularly removed.  
Use appropriate industrial vacuum cleaners or central vacuum systems for dust removal.  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.

Information about fire and explosion protection

Keep respiratory protective device available.  
Dust can combine with air to form an explosive mixture.

7.2 Conditions for safe storage, including any incompatibilities

Storage

Requirements to be met by storerooms and receptacles

Store in a cool location.  
Protect from humidity and water.  
Avoid storage near extreme heat, ignition sources or open flame.

Information about storage in one common storage facility

Store away from food stuffs.  
Do not store together with oxidizing and acidic materials.

Further information about storage conditions

Store in cool, dry conditions in well-sealed receptacles.  
Store receptacle in a well-ventilated area.  
Open receptacle only under localized extractor facilities.  
Protect from humidity and water.  
Keep container tightly sealed.

7.3 Specific end use(s): No further relevant information available.

**8. EXPOSURE CONTROLS - PERSONAL PROTECTION**

Additional information about design of technical facilities: No further data; see item 7.

8.1 Control parameters

Ingredients with limit values that require monitoring at the workplace

13927-77-0 Nickel, bis(dibutylcarbamo- dithioato-s-s')

TWA (USA)	1.0 mg/m <sup>3</sup> As Ni
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DNELs: No further relevant information available.

PNECs: No further relevant information available.

Additional information: The lists valid during the making were used as basis.

## 8.2 Exposure controls

### Personal protective equipment

#### General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

Do not inhale dust / smoke / mist.

Avoid contact with the eyes and skin.

#### Respiratory protection



Combined Organic Vapor and Particulate Respirator is recommended for use during all processing

#### Protection of hands



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests, no recommendation to the glove material can be given for the product/ the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation.

#### Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

#### Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

#### Eye protection



Safety glasses with side shields or face shield strongly suggested.

#### Body protection



Apron



Boots

Wear appropriate protective face shield, airline supplied mask or hood or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166 relative to the quantities being handled.

Protective work clothing

Limitation and supervision of exposure into the environment: No further relevant information available.

#### Risk management measures

See Section 7 for additional information.

No further relevant information available.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

#### General Information

Appearance Form: Powder. Color: Green.	Change in Condition Melting Point/Melting Range: Undetermined. Boiling Point/Boiling Range: Undetermined.
Odor: Characteristic.	Octanol/Water Partition Coefficient: Not determined.
Odor threshold: Not determined.	pH value: Not applicable.
Vapor pressure: Not applicable.	Flash point: Not applicable.
Density at 20 °C: 1.3 g/cm <sup>3</sup> .	Flammability (solid, gaseous): Product is not flammable.
Relative density: Not determined.	Ignition temperature: Not determined.
Vapor density: Not applicable.	Decomposition temperature: Not determined.
Evaporation rate: Not applicable.	Self-igniting: Not determined.
Solubility in / Miscibility with water: Insoluble.	Danger of explosion: Product does not present an explosion hazard.
Viscosity Dynamic: Not applicable. Kinematic: Not applicable.	Explosion limits Lower: Not determined. Upper: Not determined.
Organic solvents: Not determined.	Solids content: Not determined.

9.2 Other information: No further relevant information available.

## 10. STABILITY AND REACTIVITY

### 10.1 Reactivity

### 10.2 Chemical stability

Thermal decomposition/conditions to be avoided: No decomposition if used and stored according to specifications.

### 10.3 Possibility of hazardous reactions

As the product is supplied it is not capable of dust explosion; however, enrichment with fine dust causes risk of dust explosion.

Reacts with strong acids and oxidizing agents.

10.4 Conditions to avoid: Store away from oxidizing agents.

10.5 Incompatible materials: No further relevant information available.

### 10.6 Hazardous decomposition products

Toxic metal oxide smoke.

Toxic metal compounds.

Danger of forming toxic pyrolysis products.

Sulfur oxides (SO<sub>x</sub>).

Carbon monoxide.

## 11. TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

#### Primary irritant effect

On the skin: Slight irritant effect on skin and mucous membranes.

On the eye: Irritating effect.

Sensitization: Sensitization possible through skin contact.

#### Additional toxicological information

Danger through skin adsorption.

Carcinogenic if inhaled.

Carcinogenic.

Sensitization: Sensitization possible by skin contact.

#### Repeated dose toxicity

May cause damage to organs through prolonged or repeated exposure.

Repeated exposures may result in skin and/or respiratory sensitivity.

CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction): Carc. 1A

## 12. ECOLOGICAL INFORMATION

### 12.1 Toxicity

Aquatic toxicity: The product contains materials that are harmful to the environment.

12.2 Persistence and degradability: Not easily biodegradable.

12.3 Bio-accumulative potential: May be accumulated in organism.

12.4 Mobility in soil: No further relevant information available.

#### Additional ecological information

#### General notes

This statement was deduced from products with a similar structure or composition.

The product contains heavy metals. Avoid transfer into the environment. Specific preliminary treatments are necessary.

Due to available data on eliminability/decomposition and bioaccumulation potential prolonged term1 damage of the environment cannot be excluded.

Water hazard class 3 (German Regulation) (Self-assessment): extremely hazardous for water

Do not allow product to reach ground water, water course or sewage system, even in small quantities.

Danger to drinking water if even extremely small quantities leak in to the ground.

### 12.5 Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

12.6 Other adverse effects: No further relevant information available.

## 13. DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

#### Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.



After prior treatment product has to be disposed of in an incinerator for hazardous waste adhering to the regulations pertaining to the disposal of particularly hazardous waste.

The user of this material has the responsibility to dispose of unused material, residues and containers in compliance with all relevant local, state and federal laws and regulations regarding treatment, storage and disposal for hazardous and nonhazardous wastes. Residual materials should be treated as hazardous.

Un-cleaned packaging

Recommendation: Disposal must be made according to official regulations.

**14. TRANSPORTATION INFORMATION**

- 14.1 UN-Number  
DOT, ADR, ADN, IMDG, IATA                      Not regulated
  
- 14.2 UN proper shipping name  
DOT, ADR, ADN, IMDG, IATA                      Not regulated
  
- 14.3 Transport hazard class(es)  
DOT, ADR, ADN, IMDG, IATA                      Not regulated
  
- 14.4 Packing group  
DOT, ADR, IMDG, IATA                              Not regulated
  
- 14.5 Environmental hazards  
Marine pollutant                                      No
  
- 14.6 Special precautions for user                      Not applicable.
  
- 14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.  
UN "Model Regulation"

**15. 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)	Nickel Compounds.
TSCA (Toxic Substances Control Act)	Substance is listed.
Proposition 65 (California)	
Chemicals known to cause cancer	As nickel salts. 13927-77-0 Nickel, bis(dibutylcarbamo- dithioato-s- s')
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.
Carcinogenic Categories	
EPA (Environmental Protection Agency)	Substance is not listed.
IARC (International Agency for Research on Cancer)	As nickel salts.

	13927-77-0 Nickel, bis(dibutylcarbamo- dithioato-s-s').
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%)	As nickel salts. 13927-77-0 Nickel, bis(dibutylcarbamo- dithioato-s-s')

**National regulations**

Information about limitation of use: Workers are not allowed to be exposed to this hazardous material. Exceptions can be made by the authorities in certain cases.

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

**16. 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)
- Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2
- Skin Sens. 1: Sensitization – Skin, Hazard Category 1
- Carc. 1A: Carcinogenicity, Hazard Category 1Ai
- STOT RE 1: Specific target organ toxicity – Repeated exposure, Hazard Category 1
- Asp. Tox. 1: Aspiration hazard, Hazard Category 1



## Safety Data Sheet

Dear Customer:

Section 313 of SARA Title III (also known as the Emergency Planning and Community Right to Know Act, or EPCRA) requires certain suppliers of mixtures or trade name products to notify their customers when such mixtures or trade name products contain chemicals listed in Section 313. This letter constitutes a supplier notification that the following product you ordered contains one or more chemicals on the Section 313 list (\*) as noted below:

Product Name: Sovchem® NDBC		
Chemical Name (*)	CAS #	% Composition
Nickel dibutyldithiocarbamate *	13927-77-0	>98%

\* Nickel dibutyldithiocarbamate is under the general category of nickel compounds

In addition, an SDS for this product is enclosed for your use.

If you are a distributor and you sell this product to another customer (s), you are required under Section 313 to furnish the same information and SDS to that customer (s).

If you have any questions, please do not hesitate to contact our Technical Department at 330.542.8400.

Sovereign Chemical Company