

Current version: 2.0.0, issued: 17.07.2018 Replaced version: 1.0.1, issued: 02.09.2014 Region: GB

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

#### 1.1 Product identifier

Trade name

#### Nickel catalyst

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

#### Relevant identified uses of the substance or mixture

Chemical processes general

#### Uses advised against

No data available.

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

#### **Address**

Shimadzu Europa GmbH Albert-Hahn-Str. 6-10 47269 Duisburg

Telephone no. +49 (0)203 - 7687-0 Fax no. +49 (0)203 - 711045 Information provided by / telephone

# Tel.: +49 (0)203 - 7687-0

Advice on Safety Data Sheet

sdb\_info@umco.de

#### 1.4 Emergency telephone number

For medical advice (in German and English): +49 (0)551 192 40 (Giftinformationszentrum Nord)

# **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture

## Classification in accordance with Regulation (EC) No 1272/2008 (CLP)

Carc. 2; H351 Skin Sens. 1; H317 STOT RE 1; H372 STOT SE 3; H335

#### **Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008: Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

# Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)

## Hazard pictograms





Signal word

Danger

#### Hazardous component(s) to be indicated on label:

silicon dioxide, chemically prepared

nickel

#### Hazard statement(s)

H317 May cause an allergic skin reaction.
H335 May cause respiratory irritation.
H351 Suspected of causing cancer

H372 Causes damage to organs through prolonged or repeated exposure.



**Trade name:** Nickel catalyst **Product no.:** 221-66062

Current version: 2.0.0, issued: 17.07.2018 Replaced version: 1.0.1, issued: 02.09.2014 Region: GB

#### Precautionary statement(s)

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

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

P312 Call a POISON CENTER/doctor if you feel unwell.

P405 Store locked up.

P501 Dispose of contents/container to a facility in accordance with local and national regulations.

#### 2.3 Other hazards

No data available.

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

#### **Hazardous ingredients**

No	Substance name		Additional information	
	CAS / EC / Index /	Classification (EC) 1272/2008 (CLP)	Concentration	%
	REACH no			
1	silicon dioxide, chem	ically prepared		
	7631-86-9 231-545-4 -	STOT SE 3; H335	> 70.00 - < 90.00	%-b.w.
2	nickel			
	7440-02-0 231-111-4 028-002-00-7	Carc. 2; H351 Skin Sens. 1; H317 STOT RE 1; H372**	> 10.00 - < 30.00	%-b.w.

Full Text for all H-phrases and EUH-phrases: pls. see section 16

(\*,\*\*,\*\*\*) Detailed explanation pls. refer to CLP regulation No. 1272/2008, annex VI, 1.2

No	Note	Specific concentration limits	M-factor (acute)	M-factor (chronic)
2	S, 7	-	=	-

Full text for the notes: pls. see section 16 "Notes relating to the identification, classification and labelling of substances ((EC) No 1272/2008, Annex VI)".

# **SECTION 4: First aid measures**

# 4.1 Description of first aid measures

#### **General information**

In case of accident or if you feel unwell, seek medical advice immediately. Remove contaminated clothing and shoes immediately, and launder thoroughly before reusing. If the patient is likely to become unconscious, place and transport in stable sideways position.

#### After inhalation

Remove affected person from the immediate area. Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. In case of breathing difficulties give oxygen. Call a doctor immediately.

#### After skin contact

Wash off immediately with soap and water. Seek medical attention.

#### After eye contact

Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.

## After ingestion

Do not induce vomiting. Rinse out mouth and give plenty of water to drink. Call a doctor immediately. Never give anything by mouth to an unconscious person.

#### 4.2 Most important symptoms and effects, both acute and delayed

No data available.

#### 4.3 Indication of any immediate medical attention and special treatment needed

No data available.

# **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

#### Suitable extinguishing media

Carbon dioxide; Extinguishing powder; Foam; Water spray jet



Current version: 2.0.0, issued: 17.07.2018 Replaced version: 1.0.1, issued: 02.09.2014 Region: GB

#### Unsuitable extinguishing media

High power water jet

#### 5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon dioxide (CO2); Carbon monoxide (CO); When heating or in case of fire formation of toxic gases.

#### 5.3 Advice for firefighters

Fire-fighting operations, rescue and clearing work under effect of combustion and smoulder gases just may be done with breathing apparatus.

# **SECTION 6: Accidental release measures**

# 6.1 Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Refer to protective measures listed in sections 7 and 8. Avoid contact with skin, eyes and clothing. Ensure adequate ventilation.

#### For emergency responders

No data available. Personal protective equipment (PPE) - see Section 8.

#### 6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater. Do not discharge into the subsoil/soil.

#### 6.3 Methods and material for containment and cleaning up

Take up mechanically. When picked up, treat material as prescribed under heading "Disposal considerations".

#### 6.4 Reference to other sections

No data available.

# **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

# Advice on safe handling

Product inherent handling risks must be minimised taking the appropriate measures for protection and preventive actions. The working process should be designed to rule out the release of hazardous substances or skin contact as far it is possible by the state of the art.

## General protective and hygiene measures

Do not eat, drink or smoke during work time. Keep away from foodstuffs and beverages. Avoid contact with eyes and skin. Remove soiled or soaked clothing immediately. Wash hands before breaks and after work. Provide eye wash fountain in work area. Have emergency shower available. Do not inhale dust.

# Advice on protection against fire and explosion

No special measures necessary.

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

#### Technical measures and storage conditions

Keep container tightly closed in a cool, well-ventilated place. Protect from sun.

# Requirements for storage rooms and vessels

Containers which are opened must be carefully closed and kept upright to prevent leakage. Always keep in containers of same material as the original one.

#### Advice on storage assembly

Do not store with strong oxidizing agents.

# 7.3 Specific end use(s)

No data available.



Current version: 2.0.0, issued: 17.07.2018 Replaced version: 1.0.1, issued: 02.09.2014 Region: GB

# **SECTION 8: Exposure controls/personal protection**

#### 8.1 Control parameters

#### Occupational exposure limit values

No	Substance name	CAS no.		EC no.	
1	silicon dioxide, chemically prepared	7631-86-9		231-545-4	
	List of approved workplace exposure limits (WELs) / EH40				
	Silica, amorphous				
	inhalable dust				
	TWA	6	mg/m³		
	List of approved workplace exposure limits (WELs) / EH40				
	Silica, amorphous				
	respirable dust				
	TWA	2.4	mg/m³		
2	nickel	7440-02-0		231-111-4	
	List of approved workplace exposure limits (WELs) / EH40				
	Nickel				
	TWA	0.1	mg/m³	`	
	Skin resorption / sensibilisation	Sk			

#### 8.2 Exposure controls

#### Appropriate engineering controls

No data available.

#### Personal protective equipment

#### Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

#### Eye / face protection

Safety glasses with side protection shield (EN 166)

#### Hand protection

In case of intensive contact, wear protective gloves (EN 374). Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

## Other

Normal chemical work clothing.

#### **Environmental exposure controls**

No data available.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

Form/Colour	
Powder	
black	

Odour	
odourless	



**Trade name:** Nickel catalyst **Product no.:** 221-66062

Current version: 2.0.0, issued: 17.07.2018 Replaced version: 1.0.1, issued: 02.09.2014 Region: GB

Odour threshold

No data available

pH value

No data available

Boiling point / boiling range

No data available

Melting point / melting range

No data available

Decomposition point / decomposition range

No data available

Flash point

Not applicable

**Auto-ignition temperature** 

No data available

Oxidising properties

No data available

**Explosive properties** 

No data available

Flammability (solid, gas)

No data available

Lower flammability or explosive limits

No data available

Upper flammability or explosive limits

No data available

Vapour pressure

No data available

Vapour density

No data available

Evaporation rate

No data available

Relative density

No data available

Density

No data available

Solubility in water

Remarks insoluble

Solubility(ies)

No data available

Partition coefficient: n-octanol/water

No data available

Viscosity

No data available

9.2 Other information

Other information

No data available.



**Trade name:** Nickel catalyst **Product no.:** 221-66062

Current version : 2.0.0, issued: 17.07.2018 Replaced version: 1.0.1, issued: 02.09.2014 Region: GB

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No data available.

# 10.2 Chemical stability

No data available.

# 10.3 Possibility of hazardous reactions

No data available.

#### 10.4 Conditions to avoid

Protect from heat and direct sunlight.

# 10.5 Incompatible materials

strong oxidizing agents

#### 10.6 Hazardous decomposition products

No data available.

# **SECTION 11: Toxicological information**

# 11.1 Information on toxicological effects

Acute oral toxicity					
No	Product Name				
1	Nickel catalyst				
LD50			250	mg/kg	
Species		rat			
Reference substance		Nickel			
LD50	)		3160	mg/kg	
Species		rat		-	
Refe	rence substance	silicon dioxide			

# Acute dermal toxicity

No data available

#### Acute inhalational toxicity

No data available

# Skin corrosion/irritation

No data available

# Serious eye damage/irritation

No data available

# Respiratory or skin sensitisation

No data available

### Germ cell mutagenicity

No data available

# Reproduction toxicity

No data available

Carcinogenicity					
No Pro	oduct Name				
1 Nic	ckel catalyst				
Route of	exposure	subcutaneous			
			3000	mg/kg	
Duration of exposure			6	week/s	
Type of examination		TDLo			
Species		rat			
Reference	e substance	Nickel			



**Trade name:** Nickel catalyst **Product no.:** 221-66062

Current version: 2.0.0, issued: 17.07.2018 Replaced version: 1.0.1, issued: 02.09.2014 Region: GB

# STOT - single exposure

No data available

#### STOT - repeated exposure

No data available

#### Aspiration hazard

No data available

#### Symptoms related to the physical, chemical and toxicological characteristics

Eye contact may cause mechanical irritation through dust particles.

#### Delayed and immediate effects as well as chronic effects from short and long-term exposure

Danger of acute eye damage.

# **SECTION 12: Ecological information**

#### 12.1 Toxicity

### Toxicity to fish (acute)

No data available

#### Toxicity to fish (chronic)

No data available

#### **Toxicity to Daphnia (acute)**

No data available

#### Toxicity to Daphnia (chronic)

No data available

#### Toxicity to algae (acute)

No data available

#### Toxicity to algae (chronic)

No data available

# Bacteria toxicity

No data available

### 12.2 Persistence and degradability

No data available.

#### 12.3 Bioaccumulative potential

No data available.

#### 12.4 Mobility in soil

No data available.

# 12.5 Results of PBT and vPvB assessment

No data available.

### 12.6 Other adverse effects

No data available.

#### 12.7 Other information

#### Other information

Do not allow to enter soil, waterways or waste water canal.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Product

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### **Packaging**

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.



Current version: 2.0.0, issued: 17.07.2018 Replaced version: 1.0.1, issued: 02.09.2014 Region: GB

#### **SECTION 14: Transport information**

#### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

#### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

#### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

#### 14.4 Other information

No data available.

#### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

#### 14.6 Special precautions for user

No data available.

#### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

# **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU regulations

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

# REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

# Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product contains following substance(s) that are considered being subject to REACH regulation (EC) 1907/2006 annex XVII.

No	Substance name	CAS no.	EC no.	No
1	nickel	7440-02-0	231-111-4	27

# Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

#### Other regulations

Observe employment restrictions for young people in their latest version.

Observe employment restrictions for child bearing mothers and nursing mothers in their latest version.

#### 15.2 Chemical safety assessment

No data available.

#### **SECTION 16: Other information**

#### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

# Notes relating to the identification, classification and labelling of substances and mixtures ((EC) No 1272/2008, Annex VI)

S This substance may not require a label according to Article 17 (see section 1.3 of Annex I) (Table 3.1). This substance may not require a label according to Article 23 of Directive 67/548/EEC (see

section 8 of Annex VI to that Directive) (Table 3.2).

Alloys containing nickel are classified for skin sensitisation when the release rate of 0.5 μg

Ni/cm2/week, as measured by the European Standard reference test method EN 1811, is exceeded.



**Trade name:** Nickel catalyst **Product no.:** 221-66062

Current version : 2.0.0, issued: 17.07.2018 Replaced version: 1.0.1, issued: 02.09.2014 Region: GB

#### Department issuing safety data sheet

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This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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