

CAS No: 13478-00-7 MSDS

MATERIAL SAFETY DATA SHEET (MSDS)

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

1.1.	Product identifier			
Product f	form	:	Substance	
		:		
CAS No		:	13478-00-7	
Product of	code	:	04880	
Chemica	I structure	:	Ni(NO ₃) ₂	• 6H ₂ O

1.2.	Relevant identified uses of the substan	

1.2.1. Relevant identified uses

Use of the substance/mixture

: Laboratory chemicals, Manufacture of substances

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Oxidising Solids,	H272
Category 2 Acute toxicity (oral),	H302
Category 4 Acute toxicity	H332
(inhalation:dust,mist)	
Category 4	11045
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 1	e H318
Sensitisation — Respiratory, category 1	H334
Sensitisation — Skin, category 1	H317
Germ cell mutagenicity, Category 2	H341
Carcinogenicity	H350i

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(inhalation) Category 1A Reproductive toxicity, H360 Category 1A Specific target organ H372 toxicity - Repeated exposure, Category 1 Hazardous to the aquatic H410 environment — Chronic Hazard, Category 1

Full text of classification categories and H statements : see section 16

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

Carc.Cat.1; R49 Muta.Cat.3; R68 Repr.Cat.1; R61 O; R8 T; R48/23 Xn; R20/22 R42 Xi; R41 Xi; R38 R43 N; R50/53 Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements		
Labelling according to Regulation ((EC) No. 1272/2008 [CLP]	
Hazard pictograms (CLP)		
	GHS03 GHS05 GHS07 GHS08 GHS09	
Signal word (CLP)	: Danger	
Hazard statements (CLP)	 H272 - May intensify fire; oxidiser H302+H332 - Harmful if swallowed or if inhaled H315 - Causes skin irritation H317 - May cause an allergic skin reaction H318 - Causes serious eye damage H334 - May cause allergy or asthma symptoms or breathing difficulties if inhibit H341 - Suspected of causing genetic defects H350i - May cause cancer by inhalation H360 - May damage fertility or the unborn child H372 - Causes damage to organs through prolonged or repeated exposure H410 - Very toxic to aquatic life with long lasting effects 	aled
Precautionary statements (CLP)	 P201 - Obtain special instructions before use P220 - Keep/Store away from clothing//combustible materials P260 - Do not breathe dust/fume/gas/mist/vapours/spray P273 - Avoid release to the environment P280 - Wear protective gloves/protective clothing/eye protection/face protect P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several min 	
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Remove contact lenses, if present and easy to do. Continue rinsing

2.3. Other hazards

No additional information available

SECTIO	ION 3: Composition/information on ingredier	ts
3.1.	Substance	
Name	: NICKEI	NITRATE (HEXAHYDRATE) AR
CAS No	No : 13478-0	00-7

Full text of R- and H-phrases: see section 16

3.2.	Mixture									
Not app	plicable									

SECTION 4: First aid measures

4.1. Description of first aid measures					
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Give oxygen or artificial respiration if necessary. If you feel unwell, seek medical advice.				
First-aid measures after skin contact	: Gently wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.				
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. If eye irritation persists: Get medical advice/attention.				
First-aid measures after ingestion	: Rinse mouth out with water. If you feel unwell, seek medical advice.				
4.2. Most important symptoms and e	ffects, both acute and delayed				
Symptoms/injuries	: May cause an allergic skin reaction. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.				
Symptoms/injuries after inhalation	: Harmful if inhaled. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause cancer by inhalation.				
Symptoms/injuries after skin contact	: Causes skin irritation.				
Symptoms/injuries after eye contact	Causes serious eye damage.				
Symptoms/injuries after ingestion	: Harmful if swallowed.				
4.3. Indication of any immediate med	ical attention and special treatment needed				
Treat symptomatically.					
SECTION 5: Firefighting measures					
5.1. Extinguishing media					
Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO2).				
Unsuitable extinguishing media	: Do not use a heavy water stream.				
5.2. Special hazards arising from the	substance or mixture				
Fire hazard	: May intensify fire; oxidiser.				
5.3. Advice for firefighters					
No additional information available					

SECTION 6: Accidental release measure	IS
6.1. Personal precautions, protective	e equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Evacuate unnecessary personnel.
6.1.2. For emergency responders	
Protective equipment	: Use personal protective equipment as required.
Emergency procedures	: Ventilate area.
6.2. Environmental precautions	
Very toxic to aquatic life with long lasting ef	ffects.
6.3. Methods and material for contai	inment and cleaning up
Methods for cleaning up	: Clear up rapidly by scoop or vacuum.
Methods for occurring up	
6.4. Reference to other sections	
No additional information available	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Do not get in eyes, on skin, or on clothing.
Hygiene measures	: Do not eat, drink or smoke when using this product. Wash thoroughly after
	handling.
7.2. Conditions for safe storage, inc	luding any incompatibilities
Storage conditions	: Store in original container. Keep container tightly closed. Store in a dry place.
7.3. Specific end use(s)	
No additional information available	
SECTION 8: Exposure controls/personal	l protection
8.1. Control parameters	
No additional information available	

8.2. Exposure controls	
Hand protection	: protective gloves
Eye protection	: Chemical goggles or safety glasses
Skin and body protection	: Wear suitable protective clothing
Respiratory protection	: Wear respiratory protection
SECTION 9: Physical and chemical p	roperties
0.1 Information on basic physics	l and chemical properties
9.1. Information on basic physica	al and chemical properties
9.1. Information on basic physical Physical state	al and chemical properties : Solid
Physical state	: Solid

Odour threshold	: No data available
рН	: 3.5 - 5.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: 56 °C
Freezing point	: No data available
Boiling point	: 1370 °C
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Density	: 2.05 g/cm ³
Solubility	: Water: 238.5 g/100cm ³ @ 00C
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available
9.2.Other informationNo additional information availableSECTION 10: Stability and reactivity	
10.1.ReactivityMay intensify fire; oxidiser.	
10.2. Chemical stability	
Stable under normal conditions.	
10.3.Possibility of hazardous reactioNo additional information available	ins
10.4. Conditions to avoid	
Direct sunlight. Air contact. Moisture.	
10.5. Incompatible materials	
No additional information available	
10.6. Hazardous decomposition prod No additional information available	ucts

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SECTION 11: Toxicological information	1
11.1. Information on toxicological e	ffects
Acute toxicity	: Oral: Harmful if swallowed. Inhalation:dust/mist: Harmful if inhaled.
Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	pH: 3.5 - 5.5 : Causes serious eye damage.
Respiratory or skin sensitisation	 pH: 3.5 - 5.5 May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity Carcinogenicity	Suspected of causing genetic defects.May cause cancer by inhalation.
Reproductive toxicity Specific target organ toxicity (single	: May damage fertility or the unborn child. : Not classified
exposure) Specific target organ toxicity (repeated	: Causes damage to organs through prolonged or repeated exposure.
exposure) Aspiration hazard	: Not classified
Potential adverse human health effects	: Harmful if swallowed.
SECTION 12: Ecological information	
12.1. Toxicity	
Ecology - water	: Very toxic to aquatic life.

12.2.	Persistence and degradability
No add	onal information available
12.3.	Bioaccumulative potential
No add	onal information available
12.4.	Mobility in soil
No add	onal information available
12.5.	Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects	
No additional information available	
SECTION 13: Disposal considerations	
13.1. Waste treatment methods	
Product/Packaging disposal	: Dispose of contents/container to
recommendations	
SECTION 14: Transport information	
In accordance with ADR / RID / IMDG / IA	
14.1. UN number	
UN-No. (ADR)	: 2725
UN-No. (IMDG)	: 2725
UN-No.(IATA)	: 2725
UN-No.(ADN)	: 2725
UN-No. (RID)	: 2725
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14.2. UN proper shipping name	
Proper Shipping Name (ADR)	: NICKEL NITRATE
Proper Shipping Name (IMDG)	: NICKEL NITRATE
Proper Shipping Name (IATA)	: NICKEL NITRATE
Proper Shipping Name (ADN)	: NICKEL NITRATE
Proper Shipping Name (RID)	
Transport document description (ADR)	: UN 2725 NICKEL NITRATE, 5.1, III, (E), ENVIRONMENTALLY HAZARDOUS
Transport document description (IMDG)	: UN 2725 NICKEL NITRATE, 5.1, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS
Transport document description (IATA)	: UN 2725 NICKEL NITRATE, 5.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (ADN)	: UN 2725 NICKEL NITRATE, 5.1, III, ENVIRONMENTALLY HAZARDOUS
Transport document description (RID)	: UN 2725 NICKEL NITRATE, 5.1, III, ENVIRONMENTALLY HAZARDOUS
14.3. Transport hazard class(es)	
ADR	
Transport hazard class(es) (ADR)	: 5.1
Danger labels (ADR)	: 5.1
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Transport hazard class(es) (IMDG)	: 5.1
Danger labels (IMDG)	: 5.1
	$\langle \stackrel{\checkmark}{} \rangle \langle \stackrel{\ast}{} \rangle \rangle$
	5.1
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ΙΑΤΑ	
Transport hazard class(es) (IATA)	: 5.1

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Hazard labels (IATA)	: 5.1
ADN	
Transport hazard class(es) (ADN)	: 5.1
Danger labels (ADN)	: 5.1
	5.1
RID	
Transport hazard class(es) (RID)	: 5.1
Danger labels (RID)	: 5.1
14.4. Packing group	
Packing group (ADR)	: 111
Packing group (IMDG)	: 111
Packing group (IATA)	: 111
Packing group (ADN)	: !!!
Packing group (RID)	: 111
14.5. Environmental hazards	
Dangerous for the environment	: Yes
Marine pollutant	: Yes
Other information	: No supplementary information available

14.6. Special precautions for user

- Overland transport	
Classification code (ADR)	: O2
Limited quantities (ADR)	: 5kg
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P002, IBC08, LP02, R001
Special packing provisions (ADR)	: B3
Mixed packing provisions (ADR)	: MP10
Portable tank and bulk container instructions (ADR)	: T1
Portable tank and bulk container special provisions (ADR)	: TP33
Tank code (ADR)	: SGAV
Tank special provisions (ADR)	: TU3
Vehicle for tank carriage	: AT

Transport category (ADR)	: 3
Special provisions for carriage - Bulk (ADR)	: VC1, VC2, AP6, AP7
Special provisions for carriage - Loading, unloading and handling (ADR)	: CV24
Hazard identification number (Kemler No.)	: 50
Orange plates	50 2725
Tunnel restriction code (ADR)	: E
EAC code	: 1Z
- Transport by sea	
Limited quantities (IMDG)	: 5 kg
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P002, LP02
IBC packing instructions (IMDG)	: IBC08
IBC special provisions (IMDG)	: B3
Tank instructions (IMDG)	: T1
Tank special provisions (IMDG)	: TP33
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-Q
Stowage category (IMDG)	: A
MFAG-No	: 140
- Air transport	
PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y546
PCA limited quantity max net quantity (IATA)	: 10kg
PCA packing instructions (IATA)	: 559
PCA max net quantity (IATA)	: 25kg
CAO packing instructions (IATA)	: 563
CAO max net quantity (IATA)	: 100kg
ERG code (IATA)	: 5L
- Inland waterway transport	
Classification code (ADN)	: 02
Limited quantities (ADN)	: 5 kg
Excepted quantities (ADN)	: E1
Carriage permitted (ADN)	: B
Equipment required (ADN)	: PP
Provisions prior to loading (ADN)	: LO04
Provisions for carriage in bulk (ADN)	: CO02
Number of blue cones/lights (ADN)	: 0
Additional requirements/Remarks (ADN)	: CO02 and LO04 apply only when this substance is carried in bulk or without packaging
- Rail transport	
Classification code (RID)	: O2
Limited quantities (RID)	: 52 : 5kg
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P002, IBC08, LP02, R001
Special packing provisions (RID)	: B3
Mixed packing provisions (RID)	: MP10

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Portable tank and bulk container instructions (RID)	: T1
Portable tank and bulk container special provisions (RID)	: TP33
Tank codes for RID tanks (RID)	: SGAV
Special provisions for RID tanks (RID)	: TU3
Transport category (RID)	: 3
Special provisions for carriage – Bulk (RID)	: VC1, VC2, AP6, AP7
Special provisions for carriage – Loading and unloading (RID)	: CW24
Colis express (express parcels) (RID)	: CE11
Hazard identification number (RID)	: 50

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

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

NICKEL NITRATE (HEXAHYDRATE) AR is not on the REACH Candidate List NICKEL NITRATE (HEXAHYDRATE) AR is not on the REACH Annex XIV List

15.1.2. National regulations

Germany

12th Ordinance Implementing the Federal	: Is not subject of the 12. BImSchV (Hazardous Incident Ordinance)
Immission Control Act - 12.BImSchV	

Denmark

Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
	Pregnant/breastfeeding women working with the product must not be in direct contact with the product
	The requirements from the Danish Working Environment Authorities regarding work with carcinogens must be followed during use and disposal

15.2. Chemical safety assessment No additional information available

SECTION 16: Other information

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Full text of R-, H- and EUH-phrases:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Aquatic Chronic 1	
Carc. 1A	Hazardous to the aquatic environment — Chronic Hazard, Category 1
	Carcinogenicity (inhalation) Category 1A
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Ox. Sol. 2	Oxidising Solids, Category 2
Repr. 1A	Reproductive toxicity, Category 1A
Resp. Sens. 1	Sensitisation — Respiratory, category 1
Skin Irrit. 2	Skin corrosion/irritation, Category 2
Skin Sens. 1	Sensitisation — Skin, category 1
STOT RE 1	Specific target organ toxicity — Repeated exposure, Category 1
H272	May intensify fire; oxidiser
H302	Harmful if swallowed
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H332	Harmful if inhaled
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360	May damage fertility or the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
R20/22	Harmful by inhalation and if swallowed
R38	Irritating to skin
R41	Risk of serious damage to eyes
R42	May cause sensitization by inhalation
R43	May cause sensitisation by skin contact
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation
R49	May cause cancer by inhalation
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
R61	May cause harm to the unborn child
R68	Possible risk of irreversible effects
R8	Contact with combustible material may cause fire
N	· ·
	Dangerous for the environment
0	Oxidising
T	
Xi	Irritant
Xn	Harmful

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product