# GOJIRA FINE CHEMICALS, LLC

## SAFETY DATA SHEET

Version 6.0 Revision Date 05/28/2017 Print Date 10/04/2019

#### 1. PRODUCT AND COMPANY IDENTIFICATION

1.1 **Product identifiers** 

> Product name Nickel(II) nitrate hexahydrate

**Product Number** NN1001

CAS-No. 13478-00-7

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

Identified uses : Laboratory chemicals, Synthesis of substances

1.3 Details of the supplier of the safety data sheet

> : Gojira Fine Chemicals Company

5386 Majestic Parkway, Suite 7 Bedford Heights,

OH 44146

:440-252-5397 Telephone

:docsupport@gojirafc.com Email

:888-211-5523 Fax

1.4 **Emergency telephone number** 

> Emergency Phone # : 800-255-3924 (ChemTel, Contract # MIS7318160)

## 2. HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

## GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Oxidizing solids (Category 2), H272 Acute toxicity, Oral (Category 4), H302

Acute toxicity, Inhalation (Category 4), H332

Skin irritation (Category 2), H315 Serious eye damage (Category 1), H318

Respiratory sensitisation (Category 1), H334

Skin sensitisation (Category 1), H317

Germ cell mutagenicity (Category 2), H341

Carcinogenicity (Category 1A), H350

Reproductive toxicity (Category 1B), H360

Specific target organ toxicity - repeated exposure, Inhalation (Category 1), H372

Acute aquatic toxicity (Category 1), H400 Chronic aquatic toxicity (Category 1), H410

For the full text of the H-Statements mentioned in this Section, see Section 16.

#### 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word Danger

Hazard statement(s)

May intensify fire: oxidizer. H272

H302 + H332 Harmful if swallowed or if inhaled

Causes skin irritation. H315

May cause an allergic skin reaction. H317 H318 Causes serious eye damage.

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

H341 Suspected of causing genetic defects.

H350 May cause cancer.

H360 May damage fertility or the unborn child.

Causes damage to organs through prolonged or repeated exposure if H372

H410 Very toxic to aquatic life with long lasting effects.

Precautionary statement(s)

P201 Obtain special instructions before use.

P202 Do not handle until all safety precautions have been read and

understood.

P210 Keep away from heat.

Keep/Store away from clothing/ combustible materials. P220 Take any precaution to avoid mixing with combustibles. P221 P260 Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product. Use only outdoors or in a well-ventilated area. P271

P272 Contaminated work clothing should not be allowed out of the workplace.

Avoid release to the environment. P273

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

protection.

P285 In case of inadequate ventilation wear respiratory protection.

IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. P301 + P312 + P330

Rinse mouth.

IF ON SKIN: Wash with plenty of soap and water. P302 + P352

IF INHALED: Remove person to fresh air and keep comfortable for P304 + P340 + P312

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

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing. Immediately

call a POISON CENTER/doctor.

IF exposed or concerned: Get medical advice/ attention. P308 + P313 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362

Take off contaminated clothing and wash before reuse.

P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to

extinguish.

P391 Collect spillage. P405 Store locked up.

P501 Dispose of contents/ container to an approved waste disposal plant.

#### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 **Substances**

Formula  $N_2NiO_6 \cdot 6H_2O$ 290.79 g/mol Molecular weight CAS-No. 13478-00-7 EC-No. 236-068-5

## **Hazardous components**

Camananant	Classification	Concentration
Component	l Classification	l Concentration

Nickel dinitrate hexahydrate		
	Ox. Sol. 2; Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1; Resp. Sens. 1; Skin Sens. 1; Muta. 2; Carc. 1A; Repr. 1B; STOT RE 1; Aquatic Acute 1; Aquatic Chronic 1; H272, H302 + H332, H315, H317, H318, H334, H341, H350, H360, H372, H410	<= 100 %

For the full text of the H-Statements mentioned in this Section, see Section 16.

## 4. FIRST AID MEASURES

### 4.1 Description of first aid measures

#### General advice

Move out of dangerous area. Consult a physician. Show this safety data sheet to the doctor in attendance.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

#### In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

## In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

#### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

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

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

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

No data available

#### 5. FIREFIGHTING MEASURES

## 5.1 Extinguishing media

## Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

## 5.2 Special hazards arising from the substance or mixture

Nickel/nickel oxides

## 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

## 5.4 Further information

Use water spray to cool unopened containers.

## 6. ACCIDENTAL RELEASE MEASURES

## 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.

## 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 and materials for containment and cleaning up

Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wetbrushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

## 6.4 Reference to other sections

For disposal see section 13.

## 7. HANDLING AND STORAGE

## 7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combu formation should be taken into consideration before additional processing Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Keep away from heat and sources of ignition. For precautions see section 2.2.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Hygroscopic.

## 7.3 Specific end use(s)

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

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

## 8.1 Control parameters

Components with workplace control parameters

Component	CAS-No.	Value	Control	Basis	
AP I I P 9	10170 00 7	T) 4 / 4	parameters	1104 0 11 15	
Nickel dinitrate	13478-00-7	TWA	1.000000	USA. Occupational Exposure Limits	
hexahydrate			mg/m3	(OSHA) - Table Z-1 Limits for Air	
				Contaminants	
		TWA	1.000000	USA. Occupational Exposure Limits	
			mg/m3	(OSHA) - Table Z-1 Limits for Air	
				Contaminants	
		TWA	0.100000	USA. ACGIH Threshold Limit Values	
			mg/m3	(TLV)	
	Remarks	Lung damage			
		Nasal cancer			
		Not classifiable as a human carcinogen			
		varies			
		TWA	0.015000	USA. NIOSH Recommended	
			mg/m3	Exposure Limits	
		Potential Occupational Carcinogen			
		See Appendix A			
		TWA	1 mg/m3	USA. Occupational Exposure Limits	
				(OSHA) - Table Z-1 Limits for Air	
				Contaminants	
		TWA	0.1 mg/m3	USA. ACGIH Threshold Limit Values	
			J	(TLV)	
		Lung damag	е		
		Nasal cancer			
		Not classifiable as a human carcinogen varies			
		TWA	0.015 mg/m3	USA. NIOSH Recommended	
				Exposure Limits	
	Potential Occupational Carcinogen		ogen		
		See Appendix A			

#### 8.2 Exposure controls

#### Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

## Personal protective equipment

## Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

#### Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested: Dermatril® (KCL 740 / Aldrich Z677272, Size M)

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Material tested:Dermatril® (KCL 740 / Aldrich Z677272, Size M)

data source: KCL GmbH, D-36124 Eichenzell, phone +49 (0)6659 87300, e-mail sales@kcl.de, test method: EN374

If used in solution, or mixed with other substances, and under conditions which differ from EN 374, contact the supplier of the CE approved gloves. This recommendation is advisory only and must be evaluated by an industria situation of anticipated use by our customers. It should not be construed as offering an approval for any specific use scenario.

## **Body Protection**

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

#### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use (EN 143) respirator cartridges as a backup to engineering controls. If th full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

#### Control of environmental exposure

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

a) Appearance Form: crystalline

Colour: dark green

b) Odourc) Odour Thresholdd) pHNo data availableNo data available

e) Melting point/freezing Melting point/range: 56 °C (133 °F) - lit.

point

f) Initial boiling point and No data available

boiling range

g) Flash point ()Not applicable
h) Evaporation rate No data available
i) Flammability (solid, gas) No data available

j) Upper/lower No data available

flammability or explosive limits

k) Vapour pressure No data availablel) Vapour density No data available

m) Relative density 2.05 g/cm3 at 25 °C (77 °F)

n) Water solubilityNo data availableo) Partition coefficient: n-No data available

octanol/water

p) Auto-ignition No data available temperature

q) Decomposition No data available temperature

r) Viscosity No data availables) Explosive properties No data available

t) Oxidizing properties The substance or mixture is classified as oxidizing with the category 2.

## 9.2 Other safety information

No data available

#### 10. STABILITY AND REACTIVITY

## 10.1 Reactivity

No data available

#### 10.2 Chemical stability

Stable under recommended storage conditions.

#### 10.3 Possibility of hazardous reactions

No data available

## 10.4 Conditions to avoid

No data available

## 10.5 Incompatible materials

Organic materials, Powdered metals, Strong reducing agents, acids

#### 10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Nickel/nickel oxides

Other decomposition products - No data available

In the event of fire: see section 5

#### 11. TOXICOLOGICAL INFORMATION

## 11.1 Information on toxicological effects

## **Acute toxicity**

LD50 Oral - Rat - 1,620 mg/kg(Nickel dinitrate hexahydrate)

Inhalation: No data available(Nickel dinitrate hexahydrate)

Dermal: No data available(Nickel dinitrate hexahydrate)

No data available(Nickel dinitrate hexahydrate)

#### Skin corrosion/irritation

No data available(Nickel dinitrate hexahydrate)

## Serious eye damage/eye irritation

No data available(Nickel dinitrate hexahydrate)

## Respiratory or skin sensitisation

No data available(Nickel dinitrate hexahydrate)

#### Germ cell mutagenicity

In vitro tests showed mutagenic effects which were not observed with in vivo test. (Nickel dinitrate hexahydrate)

## Carcinogenicity

Human carcinogen.(Nickel dinitrate hexahydrate)

(Nickel dinitrate hexahydrate)

(Nickel dinitrate hexahydrate)

(Nickel dinitrate hexahydrate)

IARC: 1 - Group 1: Carcinogenic to humans (Nickel dinitrate hexahydrate)

1 - Group 1: Carcinogenic to humans (Nickel dinitrate hexahydrate)

2A - Group 2A: Probably carcinogenic to humans (Nickel dinitrate hexahydrate)

NTP: Known to be human carcinogen (Nickel dinitrate hexahydrate)

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a

carcinogen or potential carcinogen by OSHA.

#### Reproductive toxicity

Presumed human reproductive toxicant(Nickel dinitrate hexahydrate)

No data available(Nickel dinitrate hexahydrate)

## Specific target organ toxicity - single exposure

No data available(Nickel dinitrate hexahydrate)

## Specific target organ toxicity - repeated exposure

Inhalation - Causes damage to organs through prolonged or repeated exposure.

#### **Aspiration hazard**

No data available(Nickel dinitrate hexahydrate)

## **Additional Information**

RTECS: QR7300000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.(Nickel dinitrate hexahydrate)

Stomach - Irregularities - Based on Human Evidence

Stomach - Irregularities - Based on Human Evidence(Nickel dinitrate hexahydrate)

## 12. ECOLOGICAL INFORMATION

#### 12.1 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(Nickel dinitrate hexahydrate)

## 12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

#### 12.6 Other adverse effects

An environmental hazard cannot be excluded in the event of unprofessional handling or disposal. Very toxic to aquatic life with long lasting effects.

## 13. DISPOSAL CONSIDERATIONS

#### 13.1 Waste treatment methods

#### Product

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chem scrubber. Burn in a chemical incinerator equipped with an afterburner and scrubber b highly flammable. Offer surplus and non-recyclable solutions to a licensed disposal company.

## Contaminated packaging

Dispose of as unused product.

#### 14. TRANSPORT INFORMATION

DOT (US)

UN number: 2725 Class: 5.1 Packing group: III

Proper shipping name: Nickel nitrate Poison Inhalation Hazard: No

**IMDG** 

UN number: 2725 Class: 5.1 Packing group: III EMS-No: F-A, S-Q

Proper shipping name: NICKEL NITRATE

Marine pollutant : yes

**IATA** 

UN number: 2725 Class: 5.1 Packing group: III

Proper shipping name: Nickel nitrate

#### 15. REGULATORY INFORMATION

#### **SARA 302 Components**

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### **SARA 313 Components**

The following components are subject to reporting levels established by SARA Title III, Section 313:

CAS-No. Revision Date 13478-00-7 1993-04-24

Nickel dinitrate hexahydrate SARA 311/312 Hazards

Reactivity Hazard, Acute Health Hazard, Chronic Health Hazard

**Massachusetts Right To Know Components** 

CAS-No. Revision Date Nickel dinitrate hexahydrate 13478-00-7 1993-04-24

Pennsylvania Right To Know Components

Nickel dinitrate hexahydrate CAS-No. Revision Date 13478-00-7 1993-04-24

**New Jersey Right To Know Components** 

CAS-No. Revision Date Nickel dinitrate hexahydrate 13478-00-7 1993-04-24

California Prop. 65 Components

WARNING! This product contains a chemical known to the State of California to cause cancer.

CAS-No. Revision Date 2004-05-07

Nickel dinitrate hexahydrate

## **16. OTHER INFORMATION**

#### Full text of H-Statements referred to under sections 2 and 3.

H272	May intensify fire; oxidizer.
H302	Harmful if swallowed.
H302 + H332	Harmful if swallowed or if inhaled
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.
H350	May cause cancer.
H360	May damage fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure if inhaled.
H400	Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

## **HMIS Rating**

H410

Health hazard: 2
Chronic Health Hazard: \*
Flammability: 0
Physical Hazard 1

## **NFPA** Rating

Health hazard: 2
Fire Hazard: 0
Reactivity Hazard: 1
Special hazard.I: OX

#### **Further information**

The above information is believed to be accurate and represents the best information currently available to Gojira Fine Chemicals. However, we make no warranty or merchantability or any other warranty, express or Implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Gojira Fine Chemicals be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Gojira Fine Chemicals has been advised of the possibility of such damages.

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