

**1 Identification of the substances/ mixture and of the company/ undertaking****1.1 Product Identifiers**

Product Number GRM6387  
Product Name Nickel (II) sulphate hexahydrate, Hi-AR™/ACS  
CAS No. : 10101-97-0  
EC No. : 232-104-9

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

**1.2.1** Relevant identified uses Laboratory chemicals, Manufacture of substances

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

Produced by HiMedia Laboratories Private Limited  
Address 23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086  
India  
Tel. No. +91-22-2500 0970, +91-22-2500 1607 Fax No. : +91-22-25002468  
Mail Id [info@himedialabs.com](mailto:info@himedialabs.com) Website : [www.himedialabs.com](http://www.himedialabs.com)

**1.4 Emergency Tel. No.**

Emergency Tel. No. Please contact the regional HiMedia representation in your country

**2 Hazards Identification****2.1 Classification of the substance or mixture**

**CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]**

Harmful if swallowed or if inhaled, H302+H332  
Skin corrosion or irritation, (Category 2), H315  
Sensitisation, Skin, (Category 1), H317  
Sensitisation, respiratory, (Category 1), H334  
Germ cell mutagenicity, (Category 2), H341  
Carcinogenicity, (Category 1A), H350  
Reproductive toxicity, (Category 1A), H360D  
Specific target organ toxicity, repeated exposure, (Category 1), H372  
Hazardous to the aquatic environment, acute hazard, (Category 1), H400  
Hazardous to the aquatic environment, long term hazard, (Category 1), H410

**2.2 Label elements**

**Labeling according to Regulation (EC) No.1272/2008**



Pictogram  
Signal word Danger

Hazard Statement(s)  
H302+H332 Harmful if swallowed or if inhaled

- H315 Causes skin irritation  
H317 May cause an allergic skin reaction  
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled  
H341 Suspected of causing genetic defects  
H350i May cause cancer by inhalation  
H360D May damage the unborn child  
H372 Causes damage to organs through prolonged or repeated exposure  
H410 Very toxic to aquatic life with long lasting effects

Precautionary Statement(s)

- P201 Obtain special instructions before use.  
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P308 + P313 IF exposed or concerned: Get medical advice/attention.  
P501 Dispose of contents/container to an approved waste disposal plant.

**2.3 Other Hazards**

none

**3 Composition/Information On Ingredients**

**3.1 Substances**

Molecular Formula : NiSO<sub>4</sub>.6H<sub>2</sub>O  
Molecular Weight : 262.85  
CAS No. : 10101-97-0  
EC No. : 232-104-9

Component	Classification	Concentration
Nickel (II) sulphate hexahydrate, Hi-AR™/ACS		
CAS No. : 10101-97-0 EC No. : 232-104-9	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral 4; Skin Irrit. 2; Skin Sens. 1; Resp. Sens. 1; Muta. 2; Carc. 1A, 1B; Repr.Tox. 1A, 1B; STOT RE 1; Aquatic Chronic 1 H302+H332; H315; H317; H334; H341; H350i; H360D; H372; H410	100%

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

**4 First Aid Measures**

**4.1 Description of first aid measures**

**General advice**

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 with plenty of soap and water. Consult a physician.

***In case of eye contact***

Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.

***If swallowed***

Do NOT induce vomiting. 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 labeling (see section 2.2) and/or in section 11.

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

No data available

---

**5 Fire Fighting Measures**

**5.1 Extinguishing media**

***Suitable extinguishing media***

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

***Unsuitable extinguishing media***

No data available.

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

Use water spray to cool unopened containers.

**5.3 Precautions for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary

**5.4 Further information**

No data available

---

**6 Accidental Release Measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

**6.2 Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into 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 wet-brushing 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 inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2

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

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

**Recommended Storage Temperature** : Below 30°C

### 7.3 Specific end uses

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

### 8.2 Exposure controls

#### **Appropriate engineering controls**

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

#### **Personal protective equipment**

##### **Hygiene measure**

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.

##### **Eye/face protection**

Faceshield and safety goggles.

##### **Skin protection**

Handle with gloves.

##### **Body protection**

Complete suit protecting against chemicals.

##### **Respiratory protection**

Air-purifying respirators.

##### **Environment exposure controls**

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

Appearance	Blue to blue-green to green solid or crystals
Odour	No data available
Odour Threshold	No data available
pH	No data available
Melting/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Upper/lower flammability or explosive limits	No data available
Evaporation rate	No data available

Flammability (Solid, gas)	No data available
Vapour pressure	No data available
Relative density	No data available
Water Solubility	No data available
Partition coefficient: n-octanol/water	No data available
Autoignition Temperature	No data available
Decomposition Temperature	No data available
Viscosity	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Vapour density	No data available
Thermal decomposition	No data available

## 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

Incompatible material

### 10.5 Incompatible materials

Strong oxidizing agents

### 10.6 Hazardous decomposition products

Other decomposition products - refer section 5.2.

In the event of fire - refer section 5.

---

## 11 Toxicological Information

### 11.1 Information on toxicological effects

#### *Acute toxicity*

No data available

#### *Skin corrosion/irritation*

No data available

#### *Serious eye damage/eye irritation*

No data available

#### *Respiratory or skin sensitisation*

No data available

#### *Germ cell mutagenicity*

No data available

#### *Carcinogenicity*

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**Reproductive toxicity**

No data available

**Specific target organ toxicity- single exposure**

No data available

**Specific target organ toxicity - repeated exposure**

No data available

**Aspiration hazard**

No data available

**Additional Information**

RTECS : QR9600000

---

**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

**12.5 PBT and vPvB assessment**

PBT and vPvB assessment not available Chemical safety assessment is not required

**12.6 Other adverse effects**

Discharge into the environment must be avoided.

---

**13 Disposal Considerations**

**13.1 Waste treatments methods**

**Product**

Offer surplus and non-recyclable solutions to a licensed disposal company. Dissolve or mix the material with a combustible solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

**13.2 Contaminated packaging**

Dispose of as unused product.

---

**14 Transport Information**

**14.1 UN-No**

ADNR : 3288 ADR : 3288 IATA\_C : 3288 IATA\_P : 3288 IMDG : 3288 RID : 3288

**14.2 UN proper shipping name**

ADNR : Toxic solid, inorganic, n.o.s.

ADR : Toxic solid, inorganic, n.o.s.

IATA\_C : Toxic solid, inorganic, n.o.s.  
IATA\_P : Toxic solid, inorganic, n.o.s.  
IMDG : Toxic solid, inorganic, n.o.s.  
RID : Toxic solid, inorganic, n.o.s.

**14.3 Transport hazard class(es)**

ADNR : 6.1 ADR : 6.1 IATA\_C : 6.1 IATA\_P : 6.1 IMDG : 6.1 RID : 6.1

**14.4 Packaging group**

ADNR : III ADR : III IATA\_C : III IATA\_P : III IMDG : III RID : III

**14.5 Environmental hazards**

ADNR : No ADR : No IMDG : Marine Pollutant : Yes IATA\_C : No IATA\_P : No RID : No

**14.6 Special precautions for use**

No data available

---

**15 Regulatory Information**

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

**15.1 Safety health and environment regulations/legislation specific for the substance or mixture**

No data available

**15.2 Chemical Safety Assessment**

No data available

---

**16 Other information**

Text of H-Statements and EUH-Phrases mentioned in section 3

H302+H332	Harmful if swallowed or if inhaled
H315	Causes skin irritation
H317	May cause an allergic skin reaction
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360D	May damage the unborn child
H372	Causes damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Skin Irrit. 2	Skin corrosion or irritation, Category 2
Skin Sens. 1	Sensitisation, Skin, Category 1
Resp. Sens. 1	Sensitisation, respiratory, Category 1
Muta. 2	Germ cell mutagenicity, Category 2
Carc. 1A, 1B	Carcinogenicity, Category 1A, 1B
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B
STOT RE 1	Specific target organ toxicity, repeated exposure, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, long term hazard, Category 1

**Further Information**

Copyright 2016 HiMedia Laboratories Pvt. Ltd.

The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.

---