1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers
- Product Number: TC155
- Product Name: Nickel (II) chloride hexahydrate
- CAS No.: 7791-20-0
- EC No.: 231-743-0

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.: +91-22-2500 2468
- Mail Id: info@himedialabs.com
- Website: 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
- Toxic if swallowed or if inhaled, H301+H331
- 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), H350i
- Reproductive toxicity, (Category 1B), H360D
- Specific target organ toxicity, repeated exposure, (Category 1), H372
- 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)
H301: Toxic if swallowed
H315  Causes skin irritation
H317  May cause an allergic skin reaction
H331  Toxic 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
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.
P284  Wear respiratory protection.
P301+P310+P330  IF SWALLOWED : Immediately call a POISON CENTER/doctor. Rinse mouth.

2.3 Other Hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3 Composition/Information On Ingredients

3.1 Substances
Molecular Formula : NiCl₂·6H₂O
Molecular Weight : 237.69
CAS No. :  7791-20-0
EC No. :  231-743-0

<table>
<thead>
<tr>
<th>Component</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Nickel (II) chloride hexahydrate</td>
<td>Cell Culture Tested</td>
<td>100%</td>
</tr>
<tr>
<td>CAS No. :  7791-20-0</td>
<td>As Per EC Regulation 1272/2008</td>
<td></td>
</tr>
<tr>
<td>EC No. :  231-743-0</td>
<td>Acute Tox. Oral, inhal, 3; Skin Irrit. 2; Skin Sens. 1; Resp. Sens. 1; Muta. 2; Carc. 1A; Repr. 1B; STOT RE 1; Aquatic Chronic 1 H301; H315; H317; H331; H334; H341; H350; H360; H372; H410</td>
<td></td>
</tr>
</tbody>
</table>

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
Hydrogen chloride gas, Nickel/nickel oxides

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

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Apple-green to dark green crystals or powder</td>
</tr>
<tr>
<td>Odour</td>
<td>No data available</td>
</tr>
<tr>
<td>Odour Threshold</td>
<td>No data available</td>
</tr>
<tr>
<td>pH</td>
<td>No data available</td>
</tr>
<tr>
<td>Melting/freezing point</td>
<td>No data available</td>
</tr>
<tr>
<td>Initial boiling point and boiling range</td>
<td>No data available</td>
</tr>
</tbody>
</table>
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

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: QR6480000

12 Ecological Information
  12.1 Toxicity
  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 combustive solvent and burn in chemical incinerator equipped with an afterburner and scrubber.

    Contaminated packaging
    Dispose of as unused product.

14 Transport Information
  14.1 UN-No
  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)

14.4 Packaging group

14.5 Environmental hazards
ADNR : No ADR : No IMDG : Marine Pollutant : No 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
H301 Toxic if swallowed
H315 Causes skin irritation
H317 May cause an allergic skin reaction
H331 Toxic 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
H410 Very toxic to aquatic life with long lasting effects
Acute Tox. Oral, inhal, 3 Toxic if swallowed or if inhaled
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 Carcinogenicity, Category 1A
Repr. 1B Reproductive toxicity, Category 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

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