

Date of Issue/re-issue: 21/02/2019

Expiry: 01/03/2024

**1. IDENTIFICATION OF THE MATERIAL AND SUPPLIER**

Company Name **ECP Limited**  
 Address: 39 Woodside Ave, Northcote, Auckland , New Zealand

|   |                    |                    |
|---|--------------------|--------------------|
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|---|--------------------|--------------------|

|                |              |             |                    |                        |                  |                              |
|----------------|--------------|-------------|--------------------|------------------------|------------------|------------------------------|
| <b>Product</b> | Luminol      |             |                    |                        | <b>Code</b>      | 16385                        |
| <b>CAS#</b>    | <b>HSNO#</b> | <b>UN #</b> | <b>DG Class/es</b> | <b>Packing group #</b> | <b>Tracking?</b> | <b>Handlers Certificate?</b> |
| 521-31-3       | Na           | NA          | NA                 | NA                     | No               | No                           |

**Recommended use:** Laboratory Investigations

**2. Hazards identification**

2.1 GHS Classification

Skin irritation (Category A), H315

Eye irritation (Category A), H319

2.2 GHS Label elements, including precautionary statements



Pictogram Signal word **Warning**

Hazard statement(s)

H315 Causes skin irritation.

H319 Causes serious eye irritation.

Precautionary statement(s)

Prevention

P264 Wash skin thoroughly after handling.

P280 Wear protective gloves.

Response

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

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P332 + P313 If skin irritation occurs: Get medical advice/attention.

P337 + P313 If eye irritation persists: Get medical advice/attention.

P362 Take off contaminated clothing and wash before reuse.

2.3 Other hazards

None

**3. Composition/information on ingredients**

Substance/Mixture: Substance

3.1 Substances

Synonyms:

3-Aminophthalhydrazide

5-Amino-2,3-dihydro-1,4-phthalazinedione

Formula: C<sub>8</sub>H<sub>7</sub>N<sub>3</sub>O<sub>2</sub>

Molecular weight: 177.16 g/mol

CAS No.: 521-31-3

Hazardous components

| Component                                       | Classification           | Concentration |
|---|--------------------------|---------------|
| 5-Amino-1,2,3,4-tetrahydrophthalazine-1,4-dione |                          |               |
|   | 6.3 A; 6.4 A; H315, H319 | <= 100%       |

#### 4. First aid measures

##### 4.1 Description of first aid measures

If inhaled

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

In case of skin contact

Wash off with soap and plenty of water.

In case of eye contact

Flush eyes with water as a precaution.

If swallowed

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

##### 4.2 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

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

##### 5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

##### 5.4 Further information

No data available

#### 6. Accidental release measures

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

Avoid dust formation. Avoid breathing vapours, mist or gas.

##### 6.2 Environmental precautions

No special environmental precautions required.

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

Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 7. Handling and storage

##### 7.1 Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed.

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

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

#### 8. Exposure controls/personal protection

##### 8.1 Control parameters

Components with workplace control parameters

We are not aware of any national exposure limit.

##### 8.2 Exposure controls

Appropriate engineering controls

General industrial hygiene practice.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards.

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

Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Body Protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use dust masks. Use respirators and components tested and approved under appropriate government standards.

Control of environmental exposure

No special environmental precautions required.

## **9. Physical and chemical properties**

### 9.1 Information on basic physical and chemical properties

a) Appearance Form: powder

Colour: light yellow

b) Odour

No data available

c) Odour Threshold

No data available

d) pH

No data available

e) Melting point/freezing point

Melting point/range: > 300 °C - lit.

f) Initial boiling point and boiling range

No data available

g) Flash point

No data available

h) Evaporation rate

No data available

i) Flammability (solid, gas)

No data available

j) Upper/lower flammability or explosive limits

No data available

k) Vapour pressure

No data available

l) Vapour density

No data available

m) Relative density

No data available

n) Water solubility

No data available

o) Partition coefficient: n-octanol/water

No data available

p) Auto-ignition temperature

No data available

q) Decomposition temperature

No data available

r) Viscosity

No data available

s) Explosive properties

No data available

t) Oxidizing properties

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

No data available

10.5 Incompatible materials

Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions

Carbon oxides, Nitrogen oxides (NO<sub>x</sub>)

Other decomposition products

No data available

## **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: TH8890060

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

## 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 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

No data available

## 13. Disposal considerations

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

## 14. Transport Information Table

|             |   | <b>ADR/RID –<br/>European packaging<br/>certification</b>                   | <b>IMDG<br/>International<br/>Maritime Dangerous<br/>Goods Code</b> | <b>IATA – DGR<br/>International Air Travel<br/>Association – Dangerous<br/>Goods Regulations</b> |
|-------------|---|---|---|--|
| <b>14.1</b> | <b>UN Number</b>                        | -   | -   | -  |
| <b>14.2</b> | <b>UN Proper Shipping<br/>name</b>      | Not dangerous<br>goods  | Not dangerous<br>goods  | Not dangerous goods  |
| <b>14.3</b> | <b>Transport Hazard<br/>Class</b>       | -   | -   | -  |
| <b>14.4</b> | <b>Packaging group</b>                  | -   | -   | -  |
| <b>14.5</b> | <b>Environmental<br/>Hazards</b>        | No  | No  | No   |
| <b>14.6</b> | <b>Special precautions<br/>for user</b> | None  |   |  |
| <b>14.7</b> | <b>Incompatible<br/>materials</b>       | Strong oxidizing agents, Strong acids, Strong bases, Strong reducing agents |   |  |

**15. Regulatory information**

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture  
National regulatory information

HSNO Approval Code: not required

HSNO Group Standard Approval: HSR002596 - Laboratory Chemicals and Reagent Kits Group  
Standard 2006

Tracking Required: not required, not required

Approved Handler Cert.: not required

**16. Disclaimer**

The information above is believed to be accurate and represents the best information currently available to us. However, the information is not a guarantee expressed or implied, with respect to such information, and we assume no liability resulting from its use. Anyone using the chemical described here should ensure that he or she has the appropriate training and has the expertise and any equipment required for safe handling. If clarification or further information is required, please contact ECP Ltd or refer to the official handler of dangerous goods within your own company. The user should also make their own investigations to determine the suitability of the product for their particular purposes. In no event shall the company 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 the company has been advised of the possibility of such damages.

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