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

1.1. Product identifier

Trade name/designation: HiLyteFluor™488 C2 Maleimide.
Article No (user): AS-81164.

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

Relevant identified uses: For research or laboratory use only. Not to be administered to humans or used for medical diagnostics.

1.3. Details of the supplier of the safety data sheet

Supplier: Name: Anaspec Inc.
Street: Campus drive 34801
Postal code/City: 94555 Fremont
Country: United States of America
Telephone: +1 510-791-9560
Telefax: +1 510-791-9572
Website: www.anaspec.com
E-mail: service@anaspec.com

1.4. Emergency Telephone Number

European Union: Contact your local poison center. See section 16.7

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

<table>
<thead>
<tr>
<th>Classification</th>
<th>Hazard statements (H)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Tox. 4</td>
<td>H302 - Harmful if swallowed</td>
</tr>
<tr>
<td>Skin_Corr._1</td>
<td>H314 - Causes severe skin burns and eye damage.</td>
</tr>
<tr>
<td>Skin Sens. 1</td>
<td>H317 - May cause an allergic skin reaction.</td>
</tr>
</tbody>
</table>

2.2. Label elements

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

Hazard pictograms: Danger

Signal word: -

Product identifiers: H302 - Harmful if swallowed
H314 - Causes severe skin burns and eye damage.
H317 - May cause an allergic skin reaction.

Supplemental Hazard information (EU): -

Precautionary Statements - General: -

P264 - Wash ... thoroughly after handling.
P270 - Do not eat, drink or smoke when using this product.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
Precautionary Statements - Response
P301+P330+P331 - IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302+P352 - IF ON SKIN: Wash with plenty of 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.
P310 - Immediately call a POISON CENTER/doctor/…

Precautionary Statements - Storage
- 

Precautionary Statements - Disposal
P501 - Dispose of contents/container to ...

2.3. Other hazards
Not available

SECTION 3: Composition/information on ingredients

3.1. Substances

<table>
<thead>
<tr>
<th>Substance</th>
<th>C (%)</th>
<th>Classification</th>
<th>Specific concentration limits</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>maleimide</td>
<td>80.0% ≤C≤ 90.0%</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>CAS N°:541-59-3</td>
<td></td>
<td></td>
<td></td>
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</tr>
<tr>
<td>EC N°:208-787-4</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>IDX N°:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

3.2. Mixtures
The mixture does not contain any substances classified as Substances of Very High Concern (SVHC) by the European Chemicals Agency (ECHA) under article 57 of REACH: http://echa.europa.eu/fr/candidate-list-table.

3.3. Remark
Text phrases and H- EUH-: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures
General information: In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible). Do not leave affected person unattended. Keep affected person warm, still and covered.

Following inhalation: Remove person to fresh air and keep comfortable for breathing.

Following skin contact: Remove contaminated, saturated clothing immediately. After contact with skin, wash immediately with plenty of water and soap. Take off immediately all contaminated clothing. In case of skin irritation, consult a physician. Immediate medical treatment required because corrosive injuries that are not treated are hard to cure.

Following eye contact: Remove contact lenses, if present and easy to do. Continue rinsing. In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion: Never give anything by mouth to an unconscious person or a person with cramps. IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. If swallowed: Call a POISON CENTER or physician if you feel unwell.

Self-protection of the first aider: First aider: Pay attention to self-protection!

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
Notes for the doctor: Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Unsuitable extinguishing media: Strong water jet.
5.2. Special hazards arising from the substance or mixture
Formation of toxic gases is possible during heating or in case of fire.

5.3. Advice for firefighters
Wear a self-contained breathing apparatus and chemical protective clothing.

5.4. Additional information
Do not inhale vapors and fumes. Co-ordinate fire-fighting measures to the fire surroundings. Move undamaged containers from immediate hazard area if it can be done safely. Use caution when applying carbon dioxide in confined spaces. Carbon dioxide can displace oxygen. Use water spray jet to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use personal protection equipment. Remove persons to safety.

6.2. Environmental precautions
Ensure that waste is collected and contained. In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities. Contain leaks or spills within cabinets with removable trays.

6.3. Methods and material for containment and cleaning up
Treat the recovered material as prescribed in the section on waste disposal. Collect in closed and suitable containers for disposal. Clean contaminated objects and areas thoroughly observing environmental regulations. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). Wipe up with absorbent material (e.g. cloth, fleece).

6.4. Reference to other sections

6.5. Additional information
Not available

SECTION 7: Handling and Storage

7.1. Precautions for safe handling
PROTECTIVE MEASURES
Avoid contact with skin, eyes and clothes.
Do not eat, drink or smoke when using this product.
Wear personal protective clothing (see section 8).
Only allow access to authorised staff.
Do not put any product-impregnated cleaning rags into your trouser pockets.
Avoid breathing gas/fumes/vapour/spray.

Advises on general occupational hygiene
Provide eye shower and label its location conspicuously
Wash hands before breaks and after work.
Street clothing should be stored seperately from work clothing.
Wash contaminated clothing before reuse.
Remove contaminated, saturated clothing immediately.

7.2. Conditions for safe storage, including any incompatibilities
Keep container tightly closed in a dry, cool, and well-ventilated place. Keep container in upright position in order to prevent leakage.

Requirements for storage rooms and vessels
Store at -20°C desiccated and protected from light. Store away from oxidizing agent.

Advice on joint storage
Keep away from food, drink and animal feedingstuffs.

7.3. Specific end uses
Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.
SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Does not contain substances above concentration limits fixing an occupational exposure limit.

Not available

8.2. Exposure controls

Appropriate engineering controls
Technical measures and the application of suitable work processes have priority over personal protection equipment.

Personal protection equipment

Eye/face protection: Suitable eye protection: Wear eye protection equipment. Recommended eye protection articles: Face protection shield

Skin protection: Hand protection: Wear protective gloves.
Hand protection: NBR (nitrile rubber)
Hand protection: Do not wear gloves near machines and rotating tools.
Hand protection: Use gloves only once.
Hand protection: When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits.
Hand protection: The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.
Hand protection: For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.
Hand protection: Breakthrough times and swelling properties of the material must be taken into consideration.
Body protection: Lab coat.
Body protection: Chemical resistant safety shoes

Respiratory protection: Suitable respiratory protection apparatus: No data available

8.3. Additional information

Not available

SECTION 9: Physical and chemical Properties

9.1. Information on basic physical and chemical properties

Physical state: Solid
Colour: Not available
Odour: Not available
Odour threshold: Not available
pH: Not available
Melting point/freezing point: Not available
Initial boiling point and boiling range: Not available
Flash point: Not available
Evaporation rate: Not available
Flammability: Not available
Upper/lower flammability or explosive limits: Not available
Vapour pressure: Not available
Vapour density: Not available
Relative density: Not available
Solubility(ies): Slightly Water Soluble
Partition coefficient: n-octanol/water (Log KOC): Not available
Auto-ignition temperature: Not available
Decomposition temperature: Not available
Viscosity: Not available
Explosive properties: Not available
Oxidising properties: Not available

9.2. Other safety information
Not available

SECTION 10: Stability and Reactivity

10.1. Reactivity
No data available.

10.2. Chemical stability
Not available

10.3. Possibility of hazardous reactions
Not available

10.4. Conditions to avoid
No data available.

10.5. Incompatible materials
No data available.

10.6. Hazardous decomposition products
Not available

10.7. Additional information
Not available

SECTION 11: Toxicological information

11.1. Acute oral toxicity
Data for mixture
Not available
Substances
Not available

11.2. Acute skin toxicity
Data for mixture
Not available
Substances
Not available

11.3. Acute inhalation toxicity
Data for mixture
Not available
Substances
Not available

11.4. Skin corrosion
Data for mixture
Not available
Substances
Not available

11.5. Eye damage
Data for mixture
Not available
Substances
Not available

11.6. Skin sensitisation
Data for mixture
Not available
Substances
SECTION 11: Toxicological information

11.7. STOT RE
Data for mixture
Not available
Substances
Not available

11.8. STOT SE
Data for mixture
Not available
Substances
Not available

11.9. STOT RE
Data for mixture
Not available
Substances
Not available

11.10. Carcinogenicity
Data for mixture
Not available
Substances
Not available

11.11. Reproductive and Developmental Toxicity
Data for mixture
Not available
Substances
Not available

11.12. Genotoxicity
Data for mixture
Not available
Substances
Not available

11.13. In vitro genotoxicity
Data for mixture
Not available
Substances
Not available

11.14. Respiratory sensitisation
Data for mixture
Not available
Substances
Not available

Additional information
Not available

SECTION 12: Ecological information

12.1. Toxicity
Based on available data, the classification criteria are not met.

12.2. Persistence and degradability
The product has not been tested.

12.3. Bioaccumulative potential
The product has not been tested.
### 12.4. Mobility in soil
The product has not been tested.

### 12.5. Results of PBT and vPvB assessment
No data available.

### 12.6. Other adverse effects
No data available.

### 12.7. Additional ecotoxicological information
Not available

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods
**Product/Packaging disposal**
- The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.
- Waste requiring special supervision.
- Dispose of waste according to applicable legislation.
- Delivery to an approved waste disposal company.
- Non-contaminated packages must be recycled or disposed of.
- Contaminated packing must be completely emptied and can be reused after proper cleaning.
- Packing which cannot be properly cleaned must be disposed of.
- Handle contaminated packages in the same way as the substance itself.
- Dispose of waste according to applicable legislation.
- For recycling, contact manufacturer.
- Collect the waste separately.
- Consult the appropriate authorities about waste disposal.
- Do not mix with other wastes.
- The waste is to be kept separate from other types of waste until its disposal.
- Concerning the waste it has to be checked, whether a transport authorisation is required.

#### 13.2. Additional information
Not available

### SECTION 14: Transport information

#### 14.1. UN number
Not available

#### 14.2. UN proper shipping name
Not available

#### 14.3. Transport hazard class(es)
Not available

#### 14.4. Packing group
Not available

#### 14.5. Environmental hazards
Not available

#### 14.6. Special precautions for user
Not available

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not available

#### 14.8. Additional information
Not available

### SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

This SDS has been established in accordance with REACH regulation, including its amendments: REACH Regulation (EC) No 1907/2006. This SDS has been established in accordance with CLP regulation, including its amendments: CLP Regulation EC No. 1272/2008.

Not available

15.2. Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier. For this substance/mixture a chemical safety assessment has been elaborated. For this mixture, the relevant data of the Substances' Chemical safety assessment are integrated in the sections of the SDS.

15.3. Additional information

Not available

SECTION 16: Other information

Creation date: 11/09/2019
Version date: 11/09/2019
Printing date: 11/09/2019

16.1. Indication of changes

Not applicable (first edition of the MSDS).

16.2. Abbreviations and acronyms


16.3. Key literature references and sources for data

No data available.

16.4. Classification for mixtures and used evaluation method according to regulation (EC) 1272/2008 [CLP]

Classification of the mixture is in accordance with the evaluation method described in Regulation (EC) No 1272/2008.

16.5. Relevant R-, H- and EUH-phrases (Number and full text)

- **H302** Acute Tox. 4 ORAL Harmful if swallowed
- **H314** Skin Corr. 1 Causes severe skin burns and eye damage.
- **H317** Skin Sens. 1 May cause an allergic skin reaction.

16.6. Training advice

Not available

16.7. Additional information

Emergency phone number:
<table>
<thead>
<tr>
<th>Country</th>
<th>Phone</th>
<th>Country</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>France</td>
<td>+33 (0)1 45 42 59 59</td>
<td>Romania</td>
<td>112</td>
</tr>
<tr>
<td>Germany</td>
<td>112</td>
<td>Slovakia</td>
<td>+421 2 5477 4166</td>
</tr>
<tr>
<td>Greece</td>
<td>32 (0)70 245 245</td>
<td>Slovenia</td>
<td>112</td>
</tr>
<tr>
<td>Hungary</td>
<td>36 80 201 199</td>
<td>Spain</td>
<td>+34 91 562 04 20</td>
</tr>
<tr>
<td>Iceland</td>
<td>112</td>
<td>Switzerland</td>
<td>145</td>
</tr>
<tr>
<td>Ireland</td>
<td>112 (begär Giftinformation)</td>
<td>Sweden</td>
<td>112 (begär Giftinformation)</td>
</tr>
<tr>
<td>Italy</td>
<td>35 (0)2 6610 1029</td>
<td>United Kingdom</td>
<td>111</td>
</tr>
</tbody>
</table>

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non-identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user’s working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

HiLyte™ is a trademark of Anaspec, Inc.