

## EC safety data sheet

**Trade name:** GM1

**Product no.:** N4

**Current version :** 5.1.0, issued: 14.11.2019

**Replaced version:** 5.0.0, issued: 15.07.2019

**Region:** GB

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

#### 1.1 Product identifier

**Trade name**

**GM1**

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

**Relevant identified uses of the substance or mixture**

lubricant for electrotechnical use

**Uses advised against**

No data available.

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

**Address**

Cellpack GmbH

Carl-Zeiss-Strasse 20

79761 Waldshut-Tiengen

Telephone no. +49 (0)7741 6007-0

Fax no. +49 (0)7741 64989

e-mail [electrical.products@cellpack.com](mailto:electrical.products@cellpack.com)

**Information provided by / telephone**

+49 (0)7741 6007-0

**Advice on Safety Data Sheet**

[msds@cellpack.com](mailto:msds@cellpack.com)

#### 1.4 Emergency telephone number

For medical advice (in German and English):

+49 (0)551 192 40 (Giftinformationszentrum Nord)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Skin Sens. 1B; H317

**Classification information**

This product is assessed and classified using the methods and criteria below referred to in Article 9 of Regulation (EC) n° 1272/2008:

Physical hazards: determined through assessment data based on the methods or standards referred to in part 2 of Annex I to CLP

Health hazards and environmental hazards: determined through toxicological and ecotoxicological assessment data based on the methods or standards referred to in Part 3, 4 and 5 of Annex I to CLP.

#### 2.2 Label elements

**Labelling according to Regulation (EC) No 1272/2008 (CLP Regulation)**

**Hazard pictograms**



GHS07

**Signal word**

Warning

**Hazardous component(s) to be indicated on label:**

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Condensation products of fatty acids, tall oil with 2-amino-2ethylpropanediol

**Hazard statement(s)**

H317 May cause an allergic skin reaction.

**Precautionary statement(s)**

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

P280 Wear protective gloves.

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

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

## 2.3 Other hazards

No special hazards have to be mentioned. Please observe the information given in this safety data sheet.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

Not applicable. The product is not a substance.

### 3.2 Mixtures

**Chemical characterization**

Mixture (preparation); Lithium soap

**Hazardous ingredients**

| No | Substance name                                                                | Additional information              |                          |
|----|-------------------------------------------------------------------------------|-------------------------------------|--------------------------|
|    | CAS / EC / Index / REACH no                                                   | Classification (EC) 1272/2008 (CLP) | Concentration %          |
| 1  | Condensation products of fatty acids, tall oil with 2-amino-2ethylpropanediol |                                     |                          |
|    | - 946-010-7                                                                   | Skin Sens. 1B; H317                 | >= 5.00 - < 10.00 %-b.w. |
|    | - 01-2120770934-44                                                            |                                     |                          |
| 2  | dilithium-azelate                                                             |                                     |                          |
|    | 38900-29-7                                                                    | Acute Tox. 4; H302                  | >= 5.00 - < 10.00 %-b.w. |
|    | 254-184-4                                                                     |                                     |                          |
|    | - 01-2120119814-57                                                            |                                     |                          |

Full Text for all H-phrases and EUH-phrases: pls. see section 16

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**General information**

Change contaminated, saturated clothing.

**After inhalation**

Ensure supply of fresh air. In case of persisting adverse effects consult a physician.

**After skin contact**

Wash off immediately with soap and water. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). Seek medical assistance.

**After ingestion**

Seek medical attention. Rinse mouth thoroughly with water. Do not induce vomiting.

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

No data available.

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

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No data available.

**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide; Extinguishing powder; Water mist; Alcohol-resistant foam

**Unsuitable extinguishing media**

High power water jet

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

In case of fires, hazardous combustion gases are formed: Sulphur oxides (SxOy); Carbon monoxide and carbon dioxide; Metal oxides; Phosphorus oxides; Nitrogen oxides (NOx)

**5.3 Advice for firefighters**

Use self-contained breathing apparatus. Wear protective clothing. Cool endangered containers with water in case of fire. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

**SECTION 6: Accidental release measures****6.1 Personal precautions, protective equipment and emergency procedures****For non-emergency personnel**

Use personal protective clothing.

**For emergency responders**

No data available. Personal protective equipment (PPE) - see Section 8.

**6.2 Environmental precautions**

Do not discharge into the drains/surface waters/groundwater.

**6.3 Methods and material for containment and cleaning up**

Take up mechanically. Risk of slipping due to leakage/spillage of product. Dispose of absorbed material in accordance with the regulations.

**6.4 Reference to other sections**

No data available.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling****Advice on safe handling**

Ensure adequate ventilation. Keep container tightly closed.

**General protective and hygiene measures**

Observe the usual precautions when handling chemicals. Do not eat or drink during work - no smoking. Wash hands before breaks and after work. Use barrier skin cream. Avoid prolonged and/or repeated contact with skin.

**Advice on protection against fire and explosion**

No special measures necessary.

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures and storage conditions**

Keep containers dry and cool.

**Requirements for storage rooms and vessels**

Keep in original packaging, tightly closed.

**Incompatible products**

Do not store together with foodstuffs.

**7.3 Specific end use(s)**

No data available.

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## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### DNEL, DMEL and PNEC values

##### DNEL values (worker)

| No | Substance name                                                                |                     |          | CAS / EC no              |
|----|-------------------------------------------------------------------------------|---------------------|----------|--------------------------|
|    | Route of exposure                                                             | Exposure time       | Effect   | Value                    |
| 1  | Condensation products of fatty acids, tall oil with 2-amino-2ethylpropanediol |                     |          | -<br>946-010-7           |
|    | dermal                                                                        | Long term (chronic) | systemic | 8.33 mg/kg/day           |
| 2  | dilithium-azelate                                                             |                     |          | 38900-29-7<br>254-184-4  |
|    | dermal                                                                        | Long term (chronic) | systemic | 13.5 mg/kg/day           |
|    | dermal                                                                        | Short term (acut)   | systemic | 13.5 mg/kg/day           |
|    | dermal                                                                        | Long term (chronic) | local    | 0.172 mg/cm <sup>2</sup> |

##### DNEL value (consumer)

| No | Substance name                                                                |                     |          | CAS / EC no              |
|----|-------------------------------------------------------------------------------|---------------------|----------|--------------------------|
|    | Route of exposure                                                             | Exposure time       | Effect   | Value                    |
| 1  | Condensation products of fatty acids, tall oil with 2-amino-2ethylpropanediol |                     |          | -<br>946-010-7           |
|    | oral                                                                          | Long term (chronic) | systemic | 4.17 mg/kg/day           |
|    | dermal                                                                        | Long term (chronic) | systemic | 4.17 mg/kg/day           |
| 2  | dilithium-azelate                                                             |                     |          | 38900-29-7<br>254-184-4  |
|    | oral                                                                          | Long term (chronic) | systemic | 13.5 mg/kg/day           |
|    | oral                                                                          | Short term (acut)   | systemic | 27 mg/kg/day             |
|    | dermal                                                                        | Long term (chronic) | systemic | 13.5 mg/kg/day           |
|    | dermal                                                                        | Short term (acut)   | systemic | 13.5 mg/kg/day           |
|    | dermal                                                                        | Long term (chronic) | local    | 0.023 mg/cm <sup>2</sup> |

##### PNEC values

| No | Substance name         |                   | CAS / EC no             |
|----|------------------------|-------------------|-------------------------|
|    | ecological compartment | Type              | Value                   |
| 1  | dilithium-azelate      |                   | 38900-29-7<br>254-184-4 |
|    | water                  | fresh water       | 0.023 mg/L              |
|    | water                  | marine water      | 0.002 mg/L              |
|    | water                  | Aqua intermittent | 0.23 mg/L               |

### 8.2 Exposure controls

#### Appropriate engineering controls

No data available.

#### Personal protective equipment

##### Respiratory protection

In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

##### Eye / face protection

Safety glasses with side protection shield (EN 166)

##### Hand protection

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Sufficient protection is given wearing suitable protective gloves checked according to i.e. EN 374, in the event of risk of skin contact with the product. Before use, the protective gloves should be tested in any case for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Design operations thus to avoid permanent use of protective gloves.

**Other**

Normal chemical work clothing.

**Environmental exposure controls**

No data available.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

|                                                  |   |       |     |
|--------------------------------------------------|---|-------|-----|
| <b>Form/Colour</b>                               |   |       |     |
| pasty                                            |   |       |     |
| beige                                            |   |       |     |
| <b>Odour</b>                                     |   |       |     |
| musty                                            |   |       |     |
| <b>Odour threshold</b>                           |   |       |     |
| No data available                                |   |       |     |
| <b>pH value</b>                                  |   |       |     |
| No data available                                |   |       |     |
| <b>Boiling point / boiling range</b>             |   |       |     |
| No data available                                |   |       |     |
| <b>Melting point / melting range</b>             |   |       |     |
| No data available                                |   |       |     |
| <b>Decomposition point / decomposition range</b> |   |       |     |
| No data available                                |   |       |     |
| <b>Flash point</b>                               |   |       |     |
| Not applicable                                   |   |       |     |
| <b>Auto-ignition temperature</b>                 |   |       |     |
| No data available                                |   |       |     |
| <b>Oxidising properties</b>                      |   |       |     |
| No data available                                |   |       |     |
| <b>Explosive properties</b>                      |   |       |     |
| The product does not have explosive properties.  |   |       |     |
| <b>Flammability (solid, gas)</b>                 |   |       |     |
| No data available                                |   |       |     |
| <b>Lower flammability or explosive limits</b>    |   |       |     |
| No data available                                |   |       |     |
| <b>Upper flammability or explosive limits</b>    |   |       |     |
| No data available                                |   |       |     |
| <b>Vapour pressure</b>                           |   |       |     |
| Value                                            | < | 0.001 | hPa |
| Reference temperature                            |   | 20    | °C  |
| <b>Vapour density</b>                            |   |       |     |
| No data available                                |   |       |     |

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|                                               |           |       |  |
|-----------------------------------------------|-----------|-------|--|
| <b>Evaporation rate</b>                       |           |       |  |
| No data available                             |           |       |  |
| <b>Relative density</b>                       |           |       |  |
| No data available                             |           |       |  |
| <b>Density</b>                                |           |       |  |
| Value                                         | 0.97      | g/cm³ |  |
| Reference temperature                         | 20        | °C    |  |
| Method                                        | DIN 51757 |       |  |
| <b>Solubility in water</b>                    |           |       |  |
| Reference temperature                         | 20        | °C    |  |
| Comments                                      | insoluble |       |  |
| <b>Solubility(ies)</b>                        |           |       |  |
| No data available                             |           |       |  |
| <b>Partition coefficient: n-octanol/water</b> |           |       |  |
| No data available                             |           |       |  |
| <b>Viscosity</b>                              |           |       |  |
| No data available                             |           |       |  |

## 9.2 Other information

|                          |  |
|--------------------------|--|
| <b>Other information</b> |  |
| No data available.       |  |

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No data available.

### 10.2 Chemical stability

No data available.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

None, if handled according to intended use.

### 10.5 Incompatible materials

No data available.

### 10.6 Hazardous decomposition products

None if stored, handled and transported properly.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

|                                                                            |                                                                                                                                                                                                                                                                                                                 |
|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Acute oral toxicity (result of the ATE calculation for the mixture)</b> |                                                                                                                                                                                                                                                                                                                 |
| <b>No</b>                                                                  | <b>Product Name</b>                                                                                                                                                                                                                                                                                             |
| <b>1</b>                                                                   | <b>GM1</b>                                                                                                                                                                                                                                                                                                      |
| Comments                                                                   | The result of the applied calculation method according to the European Regulation (EC) 1272/2008 (CLP), Paragraph 3.1.3.6, Part 3 of Annex I is outside the values that imply a classification / labelling of this mixture according to table 3.1.1 defining the respective categories (ATE oral > 2000 mg/kg). |
| <b>Acute oral toxicity</b>                                                 |                                                                                                                                                                                                                                                                                                                 |

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|                                                                                                                |
|----------------------------------------------------------------------------------------------------------------|
| No data available                                                                                              |
| <b>Acute dermal toxicity</b>                                                                                   |
| No data available                                                                                              |
| <b>Acute inhalational toxicity</b>                                                                             |
| No data available                                                                                              |
| <b>Skin corrosion/irritation</b>                                                                               |
| No data available                                                                                              |
| <b>Serious eye damage/irritation</b>                                                                           |
| No data available                                                                                              |
| <b>Respiratory or skin sensitisation</b>                                                                       |
| No data available                                                                                              |
| <b>Germ cell mutagenicity</b>                                                                                  |
| No data available                                                                                              |
| <b>Reproduction toxicity</b>                                                                                   |
| No data available                                                                                              |
| <b>Carcinogenicity</b>                                                                                         |
| No data available                                                                                              |
| <b>STOT - single exposure</b>                                                                                  |
| No data available                                                                                              |
| <b>STOT - repeated exposure</b>                                                                                |
| No data available                                                                                              |
| <b>Aspiration hazard</b>                                                                                       |
| No data available                                                                                              |
| <b>Delayed and immediate effects as well as chronic effects from short and long-term exposure</b>              |
| Repeated and prolonged skin contact may cause removal of natural fat from the skin and irritation of the skin. |

## SECTION 12: Ecological information

### 12.1 Toxicity

|                                      |
|--------------------------------------|
| <b>Toxicity to fish (acute)</b>      |
| No data available                    |
| <b>Toxicity to fish (chronic)</b>    |
| No data available                    |
| <b>Toxicity to Daphnia (acute)</b>   |
| No data available                    |
| <b>Toxicity to Daphnia (chronic)</b> |
| No data available                    |
| <b>Toxicity to algae (acute)</b>     |
| No data available                    |
| <b>Toxicity to algae (chronic)</b>   |
| No data available                    |
| <b>Bacteria toxicity</b>             |
| No data available                    |

### 12.2 Persistence and degradability

No data available.

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## 12.3 Bioaccumulative potential

No data available.

## 12.4 Mobility in soil

No data available.

## 12.5 Results of PBT and vPvB assessment

No data available.

## 12.6 Other adverse effects

No data available.

## 12.7 Other information

### Other information

The product should not be allowed to enter drains or water courses.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product

Can be incinerated adhering to the local regulations.

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

#### Packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of in agreement with the regional waste disposal company.

## SECTION 14: Transport information

### 14.1 Transport ADR/RID/ADN

The product is not subject to ADR/RID/ADN regulations.

### 14.2 Transport IMDG

The product is not subject to IMDG regulations.

### 14.3 Transport ICAO-TI / IATA

The product is not subject to ICAO-TI / IATA regulations.

### 14.4 Other information

No data available.

### 14.5 Environmental hazards

Information on environmental hazards, if relevant, please see 14.1 - 14.3.

### 14.6 Special precautions for user

No data available.

### 14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not relevant

## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU regulations

#### Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)

According to the data available and/or specifications supplied by upstream suppliers, this product does not contain any substances considered as substances requiring authorisation as listed on Annex XIV of the REACH regulation (EC) 1907/2006.

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## REACH candidate list of substances of very high concern (SVHC) for authorisation

According to available data and the information provided by preliminary suppliers, the product does not contain substances that are considered substances meeting the criteria for inclusion in annex XIV (List of Substances Subject to Authorisation) as laid down in Article 57 and article 59 of REACH (EC) 1907/2006.

## Regulation (EC) No 1907/2006 (REACH) Annex XVII: RESTRICTIONS ON THE MANUFACTURE, PLACING ON THE MARKET AND USE OF CERTAIN DANGEROUS SUBSTANCES, PREPARATIONS AND ARTICLES

The product is considered being subject to REACH regulation (EC) 1907/2006 annexe XVII.

No 3

## Directive 2012/18/EU on the control of major-accident hazards involving dangerous substances

This product is not subject to Part 1 or 2 of Annex I.

## Other regulations

Adhere to the national sanitary and occupational safety regulations when using this product.

## 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for this mixture.

## SECTION 16: Other information

### Sources of key data used to compile the data sheet:

Regulation (EC) No 1907/2006 (REACH), 1272/2008 (CLP) as amended in each case.

EC Directives 2000/39/EC, 2006/15/EC, 2009/161/EU

National Threshold Limit Values of the corresponding countries as amended in each case.

Transport regulations according to ADR, RID, IMDG, IATA as amended in each case.

The data sources used to determine physical, toxic and ecotoxic data, are indicated directly in the corresponding chapter.

### Full text of the H- and EUH- phrases drawn up in sections 2 and 3 (provided not already drawn up in these sections)

H302

Harmful if swallowed.

This information is based on our present knowledge and experience.

The safety data sheet describes products with a view to safety requirements.

It does not however, constitute a guarantee for any specific product properties and shall not establish a legally valid contractual relationship.

Alterations/supplements:

Alterations to the previous edition are marked in the left-hand margin.

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