



# SAFETY DATA SHEET

This safety data sheet was created pursuant to the requirements of:  
Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 05-Nov-2024

Revision Number 2

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

### 1.1. Product identifier

|                 |                        |
|-----------------|------------------------|
| Product Code(s) | TRC-N529986-10MG       |
| Product Name    | N-Nitrosomorpholine-d8 |
| Form            | Not applicable         |

*NOTE [8] - No registration number is given for this substance because it is under the threshold in REACH Article 6(1) and not subject to the registration requirements according to REACH Title II*

|                        |                        |
|------------------------|------------------------|
| EC No (EU Index No)    | 802-335-5              |
| CAS No.                | 1219805-76-1           |
| Chemical name          | N-Nitrosomorpholine-d8 |
| Pure substance/mixture | Substance              |
| Formula                | C4D8N2O2               |
| Molecular weight       | 124.17                 |

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

|                      |                          |
|----------------------|--------------------------|
| Recommended use      | Laboratory use           |
| Uses advised against | No information available |

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

#### Supplier

LGC Limited  
Queens Road  
Teddington  
Middlesex TW11 0LY  
UNITED KINGDOM  
:+44 (0) 20 8943 7000  
Fax :+44 (0) 20 8943 2767  
eMail : gb@lgcstandards.com

Web : [www.lgcstandards.com](http://www.lgcstandards.com)

For further information, please contact



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E-mail address sds-request@lgcstandards.com

## 1.4. Emergency telephone number

Emergency Telephone For Hazardous Materials or Dangerous Goods Incident  
Spill, Leak, Fire Exposure, or Accident  
Call CHEMTREC:  
USA & Canada 1-800-424-9300  
Rest of the world +1 703-741-3877

| Emergency Telephone - §45 - (EC)1272/2008 |                          |
|---|--------------------------|
| Europe                                    | 112                      |
| Austria                                   | No information available |
| Bulgaria                                  |                          |
| Croatia                                   |                          |
| Cyprus                                    |                          |
| Czech Republic                            |                          |
| Denmark                                   |                          |
| France                                    |                          |
| Hungary                                   |                          |
| Ireland                                   |                          |
| Italy                                     |                          |
| Lithuania                                 |                          |
| Luxembourg                                |                          |
| Netherlands                               |                          |
| Norway                                    |                          |
| Portugal                                  |                          |
| Romania                                   |                          |
| Slovakia                                  |                          |
| Slovenia                                  |                          |
| Spain                                     |                          |
| Sweden                                    |                          |
| Switzerland                               |                          |

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

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

|                        |                     |
|------------------------|---------------------|
| Acute toxicity - Oral  | Category 3 - (H301) |
| Germ cell mutagenicity | Category 2 - (H341) |



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|  |                      |
|--|----------------------|
| Carcinogenicity                                    | Category 1B - (H350) |
| Specific target organ toxicity — repeated exposure | Category 1 - (H372)  |

### 2.2. Label elements

Contains N-Nitrosomorpholine-d8



**Signal word**  
Danger

### Hazard statements

H301 - Toxic if swallowed  
H341 - Suspected of causing genetic defects  
H350 - May cause cancer  
H372 - Causes damage to organs through prolonged or repeated exposure

### Precautionary Statements - EU (§28, 1272/2008)

P260 - Do not breathe dust/fume/gas/mist/vapours/spray  
P264 - Wash face, hands and any exposed skin thoroughly after handling  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor  
P501 - Dispose of contents/ container to an approved waste disposal plant

### 2.3. Other hazards

No information available.

This substance does not meet the PBT/vPvB criteria of REACH, annex XIII.

**Endocrine Disruptor Information** This product does not contain any known or suspected endocrine disruptors.

| Chemical name          | EU - REACH (1907/2006) - Article 59(1)<br>- Candidate List of Substances of Very<br>High Concern (SVHC) for Authorisation | EU - REACH (1907/2006) - Endocrine<br>Disruptor Assessment List of<br>Substances |
|------------------------|---|--|
| N-Nitrosomorpholine-d8 | -   | -  |

## SECTION 3: Composition/information on ingredients



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### 3.1 Substances

| Chemical name                              | Weight-% | REACH registration number | EC No (EU Index No) | Classification according to Regulation (EC) No. 1272/2008 [CLP]              | Specific concentration limit (SCL) | M-Factor | M-Factor (long-term) |
|--|----------|---------------------------|---------------------|--|------------------------------------|----------|----------------------|
| N-Nitrosomorpholin<br>e-d8<br>1219805-76-1 | 100      | -                         | 802-335-5           | Acute Tox. 3 (H301)<br>Muta. 2 (H341)<br>Carc. 1B (H350)<br>STOT RE 1 (H372) | Carc. 1B ::<br>C>=0.001%           |          |                      |

**Full text of H- and EUH-phrases: see section 16**

#### Acute Toxicity Estimate

No information available

#### Additional information

This product contains a stable isotope.

This product does not contain candidate substances of very high concern at a concentration  $\geq 0.1\%$  (Regulation (EC) No. 1907/2006 (REACH), Article 59)

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

|                |  |
|----------------|--|
| General advice | Show this safety data sheet to the doctor in attendance. IF exposed or concerned: Get medical advice/attention.    |
| Inhalation     | Remove to fresh air.   |
| Eye contact    | Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a doctor.  |
| Skin contact   | Wash skin with soap and water. In the case of skin irritation or allergic reactions see a doctor.                  |
| Ingestion      | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical attention. |

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

|          |                           |
|----------|---------------------------|
| Symptoms | No information available. |
|----------|---------------------------|



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

Note to doctors Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable Extinguishing Media** Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**Large Fire** CAUTION: Use of water spray when fighting fire may be inefficient.

**Unsuitable extinguishing media** Do not scatter spilled material with high pressure water streams.

### 5.2. Special hazards arising from the substance or mixture

**Specific hazards arising from the chemical** No information available.

### 5.3. Advice for firefighters

**Special protective equipment and precautions for fire-fighters** Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

## SECTION 6: Accidental release measures

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

**Personal precautions** Ensure adequate ventilation. Use personal protective equipment as required. Evacuate personnel to safe areas.

**Other information** Refer to protective measures listed in Sections 7 and 8.

**For emergency responders** Use personal protection recommended in Section 8.

### 6.2. Environmental precautions

**Environmental precautions** See Section 12 for additional Ecological Information.

### 6.3. Methods and material for containment and cleaning up

**Methods for containment** Prevent further leakage or spillage if safe to do so.

**Methods for cleaning up** Take up mechanically, placing in appropriate containers for disposal.



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**Prevention of secondary hazards** Clean contaminated objects and areas thoroughly observing environmental regulations.

## 6.4. Reference to other sections

**Reference to other sections** See section 8 for more information. See section 13 for more information.

## **SECTION 7: Handling and storage**

### 7.1. Precautions for safe handling

**Advice on safe handling** Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Ensure adequate ventilation.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

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

**Storage Conditions** Please refer to the manufacturer's certificate for specific storage and transport temperature conditions. Store only in the original receptacle unless other advice is given on the CoA. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up.

### 7.3. Specific end use(s)

**Risk Management Methods (RMM)** The information required is contained in this Safety Data Sheet.

## **SECTION 8: Exposure controls/personal protection**

### 8.1. Control parameters

**Exposure Limits** This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

### **Biological occupational exposure limits**

This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies



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Derived No Effect Level (DNEL) No information available.  
Predicted No Effect Concentration (PNEC) No information available.

### 8.2. Exposure controls

#### Personal protective equipment

**Eye/face protection** Avoid contact with eyes. Wear safety glasses with side shields (or goggles).

**Hand protection** The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective butyl rubber gloves. Wear suitable gloves.

**Skin and body protection** Wear suitable protective clothing.

**Respiratory protection** No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

**General hygiene considerations** Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Wash hands before breaks and after work. Wear suitable gloves and eye/face protection. Wash hands before breaks and immediately after handling the product.

**Environmental exposure controls** Do not allow into any sewer, on the ground or into any body of water.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

|                 |                           |
|-----------------|---------------------------|
| Physical state  | Solid                     |
| Appearance      | Crystalline               |
| Colour          | light yellow              |
| Odour           | No information available. |
| Odour threshold | No information available  |

| Property                                | Values            | Remarks • Method |
|---|-------------------|------------------|
| Melting point / freezing point          | No data available | None known       |
| Initial boiling point and boiling range | No data available | None known       |
| Flammability                            | No data available | None known       |
| Flammability Limit in Air               |                   | None known       |
| Upper flammability or explosive         | No data available |                  |



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|  |  |                          |
|--|--|--------------------------|
| limits                                 |  |                          |
| Lower flammability or explosive limits | No data available                            |                          |
| Flash point                            | No data available                            | None known               |
| Autoignition temperature               | No data available                            | None known               |
| Decomposition temperature              |  | None known               |
| pH                                     | No data available                            | None known               |
| pH (as aqueous solution)               | No data available                            | No information available |
| Kinematic viscosity                    | No data available                            | None known               |
| Dynamic viscosity                      | No data available                            | None known               |
| Water solubility                       | No data available                            | None known               |
| Solubility(ies)                        | slightly soluble, Chloroform, DMSO, Methanol |                          |
| Partition coefficient                  | No data available                            | None known               |
| Vapour pressure                        | No data available                            | None known               |
| Relative density                       | No data available                            | None known               |
| Bulk density                           | No data available                            |                          |
| Liquid Density                         | No data available                            |                          |
| Relative vapour density                | No data available                            | None known               |
| Particle characteristics               |  |                          |
| Particle Size                          | No information available                     |                          |
| Particle Size Distribution             | No information available                     |                          |

### 9.2. Other information

|                   |          |
|-------------------|----------|
| Molecular weight  | 124.17   |
| Molecular formula | C4D8N2O2 |

9.2.1. Information with regards to physical hazard classes  
Not applicable

9.2.2. Other safety characteristics  
No information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reactivity No information available.

### 10.2. Chemical stability

Stability Stable under normal conditions.

#### Explosion data

Sensitivity to mechanical impact None.  
Sensitivity to static discharge None.





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## 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions** None under normal processing.

## 10.4. Conditions to avoid

**Conditions to avoid** None known based on information supplied.

## 10.5. Incompatible materials

**Incompatible materials** None known based on information supplied.

## 10.6. Hazardous decomposition products

**Hazardous decomposition products** None known based on information supplied.

## **SECTION 11: Toxicological information**

### 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

#### Information on likely routes of exposure

##### **Product Information**

**Inhalation** Specific test data for the substance or mixture is not available.

**Eye contact** Specific test data for the substance or mixture is not available.

**Ingestion** Specific test data for the substance or mixture is not available. Toxic if swallowed. (based on components).

#### Symptoms related to the physical, chemical and toxicological characteristics

**Symptoms** No information available.

#### Numerical measures of toxicity

**Acute toxicity**



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## Delayed and immediate effects as well as chronic effects from short and long-term exposure

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>         | Based on available data, the classification criteria are not met.  |
| <b>Serious eye damage/eye irritation</b> | No information available.  |
| <b>Respiratory or skin sensitisation</b> | No information available.  |
| <b>Germ cell mutagenicity</b>            | Contains a known or suspected mutagen. Classification based on data available for ingredients. Suspected of causing genetic defects. |
| <b>Carcinogenicity</b>                   | Contains a known or suspected carcinogen. Classification based on data available for ingredients. May cause cancer.                  |
| <b>Reproductive toxicity</b>             | No information available.  |
| <b>STOT - single exposure</b>            | No information available.  |
| <b>STOT - repeated exposure</b>          | Causes damage to organs through prolonged or repeated exposure.  |
| <b>Aspiration hazard</b>                 | No information available.  |

## 11.2. Information on other hazards

### 11.2.1. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

### 11.2.2. Other information

**Other adverse effects** No information available.

## **SECTION 12: Ecological information**

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## 12.1. Toxicity

**Ecotoxicity** The environmental impact of this product has not been fully investigated.

## 12.2. Persistence and degradability

**Persistence and degradability** No information available.

## 12.3. Bioaccumulative potential

**Bioaccumulation** No information available.

## 12.4. Mobility in soil

**Mobility in soil** No information available.

## 12.5. Results of PBT and vPvB assessment

**PBT and vPvB assessment** The product does not contain any substance(s) classified as PBT or vPvB.

## 12.6. Endocrine disrupting properties

**Endocrine disrupting properties** No information available.

## 12.7. Other adverse effects

No information available.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

**Waste from residues/unused products** Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

**Contaminated packaging** Do not reuse empty containers.

## **SECTION 14: Transport information**

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### IATA

|                                   |   |
|-----------------------------------|---|
| 14.1 UN number or ID number       | UN2811  |
| 14.2 UN proper shipping name      | Toxic solid, organic, n.o.s. (N-Nitrosomorpholine-d8)                   |
| 14.3 Transport hazard class(es)   | 6.1   |
| 14.4 Packing group                | III   |
| Description                       | UN2811, Toxic solid, organic, n.o.s. (N-Nitrosomorpholine-d8), 6.1, III |
| 14.5 Environmental hazards        | No  |
| 14.6 Special precautions for user |   |
| Special Provisions                | A3, A5  |
| ERG Code                          | 6L  |

### IMDG

|  |   |
|--|---|
| 14.1 UN number or ID number                                  | UN2811  |
| 14.2 UN proper shipping name                                 | Toxic solid, organic, n.o.s. (N-Nitrosomorpholine-d8)                   |
| 14.3 Transport hazard class(es)                              | 6.1   |
| 14.4 Packing group   | III   |
| Description  | UN2811, Toxic solid, organic, n.o.s. (N-Nitrosomorpholine-d8), 6.1, III |
| 14.5 Marine pollutant  | NP  |
| Environmental hazards  | No  |
| 14.6 Special precautions for user                            |   |
| Special Provisions   | 223, 274  |
| EmS-No.  | F-A, S-A No information available                                       |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available  |

### RID

|                                   |   |
|-----------------------------------|---|
| 14.1 UN number or ID number       | UN2811  |
| 14.2 UN proper shipping name      | Toxic solid, organic, n.o.s. (N-Nitrosomorpholine-d8)                   |
| 14.3 Transport hazard class(es)   | 6.1   |
| 14.4 Packing group                | III   |
| Description                       | UN2811, Toxic solid, organic, n.o.s. (N-Nitrosomorpholine-d8), 6.1, III |
| 14.5 Environmental hazards        | No  |
| 14.6 Special precautions for user |   |
| Special Provisions                | 274, 614  |
| Classification code               | T2  |

### ADR

|                                   |  |
|-----------------------------------|--|
| 14.1 UN number or ID number       | UN2811   |
| 14.2 UN proper shipping name      | Toxic solid, organic, n.o.s. (N-Nitrosomorpholine-d8)                        |
| 14.3 Transport hazard class(es)   | 6.1  |
| 14.4 Packing group                | III  |
| Description                       | UN2811, Toxic solid, organic, n.o.s. (N-Nitrosomorpholine-d8), 6.1, III, (E) |
| 14.5 Environmental hazards        | No   |
| 14.6 Special precautions for user |  |
| Special Provisions                | 274, 614   |
| Classification code               | T2   |



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Tunnel restriction code (E)

## SECTION 15: Regulatory information

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

#### National regulations

##### Germany

Water hazard class (WGK) strongly hazardous to water (WGK 3)

##### European Union

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

##### Authorisations and/or restrictions on use:

This product does not contain substances subject to authorisation (Regulation (EC) No. 1907/2006 (REACH), Annex XIV) This product does not contain substances subject to restriction (Regulation (EC) No. 1907/2006 (REACH), Annex XVII)

##### DIRECTIVE (EU) 2021/1187 on the marketing and use of explosives precursors

Not applicable

##### Persistent Organic Pollutants

Not applicable

##### Ozone-depleting substances (ODS) regulation (EC) 1005/2009

Not applicable

#### International Inventories

##### TSCA

LGC has not confirmed that the chemical substances in this product are on the TSCA Inventory, and LGC is distributing this product solely for use either in applications statutorily exempt from TSCA and regulated under other laws (e.g., FFDCA, FIFRA) or in research and development activities in accordance with the TSCA Inventory R&D exemption provided



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DSL/NDSL  
EINECS/ELINCS  
ENCS  
IECSC  
KECL  
PICCS  
AIC

at 40 CFR 720.36. It is the end-user's responsibility to understand and follow the requirements that apply to its use of this product.  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status  
Contact supplier for inventory compliance status

## Legend:

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory  
**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List  
**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances  
**ENCS** - Japan Existing and New Chemical Substances  
**IECSC** - China Inventory of Existing Chemical Substances  
**KECL** - Korean Existing and Evaluated Chemical Substances  
**PICCS** - Philippines Inventory of Chemicals and Chemical Substances  
**AICS** - Australian Inventory of Chemical Substances

## 15.2. Chemical safety assessment

**Chemical Safety Report** A Chemical Safety Assessment is not required for this substance

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

### Full text of H-Statements referred to under section 3

H301 - Toxic if swallowed  
H341 - Suspected of causing genetic defects  
H350 - May cause cancer  
H372 - Causes damage to organs through prolonged or repeated exposure

### Legend

SVHC: Substances of Very High Concern for Authorisation:

### Legend Section 8: Exposure controls/personal protection

|         |                             |      |                                  |
|---------|-----------------------------|------|----------------------------------|
| TWA     | TWA (time-weighted average) | STEL | STEL (Short Term Exposure Limit) |
| Ceiling | Maximum limit value         | Sk*  | Skin designation                 |

### Classification procedure

|   |                    |
|---|--------------------|
| Classification according to Regulation (EC) No. 1272/2008 [CLP] | Method Used        |
| Acute oral toxicity   | Calculation method |



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|                                       |                    |
|---------------------------------------|--------------------|
| Acute dermal toxicity                 | Calculation method |
| Acute inhalation toxicity - gas       | Calculation method |
| Acute inhalation toxicity - Vapour    | Calculation method |
| Acute inhalation toxicity - dust/mist | Calculation method |
| Skin corrosion/irritation             | Calculation method |
| Serious eye damage/eye irritation     | Calculation method |
| Respiratory sensitisation             | Calculation method |
| Skin sensitisation                    | Calculation method |
| Mutagenicity                          | Calculation method |
| Carcinogenicity                       | Calculation method |
| Reproductive toxicity                 | Calculation method |
| STOT - single exposure                | Calculation method |
| STOT - repeated exposure              | Calculation method |
| Chronic aquatic toxicity              | Calculation method |
| Acute aquatic toxicity                | Calculation method |
| Aspiration hazard                     | Calculation method |
| Ozone                                 | Calculation method |

### Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)  
U.S. Environmental Protection Agency ChemView Database  
European Food Safety Authority (EFSA)  
EPA (Environmental Protection Agency)  
Acute Exposure Guideline Level(s) (AEGL(s))  
U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act  
U.S. Environmental Protection Agency High Production Volume Chemicals  
Food Research Journal  
Hazardous Substance Database  
International Uniform Chemical Information Database (IUCLID)  
Japan GHS Classification  
Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS)  
NIOSH (National Institute for Occupational Safety and Health)  
National Library of Medicine's ChemID Plus (NLM CIP)  
National Library of Medicine's PubMed database (NLM PUBMED)  
National Toxicology Program (NTP)  
New Zealand's Chemical Classification and Information Database (CCID)  
Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications  
Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme  
Organisation for Economic Co-operation and Development Screening Information Data Set  
World Health Organization

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

Disclaimer



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