

# 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 Not Applicable

Revision Number N/A

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

### 1.1. Product identifier

**Product Code(s)** TRC-N497025-50G  
**Product Name** 4-Nitrophenyl Acetic Acid  
**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)** 203-168-5  
**CAS No.** 104-03-0  
**Pure substance/mixture** Substance  
**Formula**  $C_8H_7NO_4$   
**Molecular weight** 181.15

### 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

Will be updated as per company.

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## TRC-N497025-50G - 4-Nitrophenyl Acetic Acid

### 1.4. Emergency telephone number

Emergency Telephone Will be updated as per company.

| 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]

|                                   |                     |
|-----------------------------------|---------------------|
| Serious eye damage/eye irritation | Category 1 - (H318) |
| Germ cell mutagenicity            | Category 2 - (H341) |
| Acute aquatic toxicity            | Category 1 - (H400) |
| Chronic aquatic toxicity          | Category 1 - (H410) |

# Will be updated as per company.

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## TRC-N497025-50G - 4-Nitrophenyl Acetic Acid

### 2.2. Label elements

Contains 4-Nitrophenylacetic acid



**Signal word**  
Danger

### Hazard statements

H318 - Causes serious eye damage  
H341 - Suspected of causing genetic defects  
H410 - Very toxic to aquatic life with long lasting effects

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

P201 - Obtain special instructions before use  
P273 - Avoid release to the environment  
P280 - Wear protective gloves/protective clothing/eye protection/face protection  
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 or doctor  
P391 - Collect spillage

### 2.3. Other hazards

No information available.

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

This product does not contain any known or suspected endocrine disruptors.

## SECTION 3: Composition/information on ingredients

### 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) |
|---------------------|----------|---------------------------|---------------------|---|------------------------------------|----------|----------------------|
| 4-Nitrophenylacetic | 100      | -                         | 203-168-5           | Eye Dam. 1 (H318)   |                                    |          |                      |

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|                  |  |  |  |  |  |  |  |
|------------------|--|--|--|--|--|--|--|
| acid<br>104-03-0 |  |  |  | Muta. 2 (H341)<br>Aquatic Acute 1<br>(H400)<br>Aquatic Chronic 1<br>(H410) |  |  |  |
|------------------|--|--|--|--|--|--|--|

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

### **Acute Toxicity Estimate** **No information available**

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**

|   |   |
|---|---|
| <b>General advice</b>                     | Immediate medical attention is required. Show this safety data sheet to the doctor in attendance.   |
| <b>Inhalation</b>                         | Remove to fresh air. Get medical attention immediately if symptoms occur.   |
| <b>Eye contact</b>                        | Get immediate medical attention. Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. |
| <b>Skin contact</b>                       | Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.  |
| <b>Ingestion</b>                          | Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.  |
| <b>Self-protection of the first aider</b> | Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).   |

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

|                 |                    |
|-----------------|--------------------|
| <b>Symptoms</b> | Burning sensation. |
|-----------------|--------------------|

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

|                        |                        |
|------------------------|------------------------|
| <b>Note to doctors</b> | Treat symptomatically. |
|------------------------|------------------------|

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## 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** Avoid contact with skin, eyes or clothing. Use personal protective equipment as required.

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

### 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.

**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.

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## 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.

#### 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. Store locked up. Keep out of the reach of children.

### 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

#### Derived No Effect Level (DNEL)

No information available.

#### Predicted No Effect Concentration (PNEC)

No information available.

# Will be updated as per company.

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## TRC-N497025-50G - 4-Nitrophenyl Acetic Acid

### 8.2. Exposure controls

#### Personal protective equipment

|                                 |  |
|---------------------------------|--|
| Eye/face protection             | Avoid contact with eyes. Wear safety glasses with side shields (or goggles). Tight sealing safety goggles.   |
| Hand protection                 | Wear suitable gloves. The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374. Wear protective Viton™ 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      | Solid                     |
| Colour          | off-white                 |
| Odour           | No information available. |
| Odour threshold | No information available  |

| Property                                | Values            | Remarks • Method |
|---|-------------------|------------------|
| Melting point / freezing point          | 154 °C            | 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 limits  | No data available |                  |
| Lower flammability or explosive limits  | No data available |                  |
| Flash point                             | No data available | None known       |
| Autoignition temperature                | No data available | None known       |

# Will be updated as per company.

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## TRC-N497025-50G - 4-Nitrophenyl Acetic Acid

|                            |                          |                          |
|----------------------------|--------------------------|--------------------------|
| 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)            | No data available        | None known               |
| Partition coefficient      | 0.3                      | 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  | 181.15  |
| Molecular formula | C <sub>8</sub> H <sub>7</sub> NO <sub>4</sub> |

#### 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. |

### 10.3. Possibility of hazardous reactions

|                                    |                               |
|------------------------------------|-------------------------------|
| Possibility of hazardous reactions | None under normal processing. |
|------------------------------------|-------------------------------|

### 10.4. Conditions to avoid

# Will be updated as per company.



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

### 10.5. Incompatible materials

**Incompatible materials** Strong acids. Strong bases. Strong oxidising agents.

**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. Causes serious eye damage.<br>May cause irreversible damage to eyes.             |
| Skin contact | Specific test data for the substance or mixture is not available.  |
| Ingestion    | Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea. |

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

**Symptoms** Redness. Burning. May cause blindness.

#### Numerical measures of toxicity

**Acute toxicity**

##### Component Information

| Chemical name            | Oral LD50            | Dermal LD50 | Inhalation LC50 |
|--------------------------|----------------------|-------------|-----------------|
| 4-Nitrophenylacetic acid | > 2000 mg/kg ( Rat ) |             |                 |

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

# Will be updated as per company.

|  |  |
|--|--|
| <b>Skin corrosion/irritation</b>                 | Based on available data, the classification criteria are not met.  |
| <b>Serious eye damage/eye irritation</b>         | Classification based on data available for ingredients. Causes burns. Causes serious eye damage.                                     |
| <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>                           | No information available.  |
| <b>Reproductive toxicity</b>                     | No information available.  |
| <b>STOT - single exposure</b>                    | No information available.  |
| <b>STOT - repeated exposure</b>                  | No information available.  |
| <b>Aspiration hazard</b>                         | No information available.  |
| <b><u>11.2. Information on other hazards</u></b> |  |
| <b>11.2.1. Endocrine disrupting properties</b>   |  |
| <b>Endocrine disrupting properties</b>           | No information available.  |
| <b>11.2.2. Other information</b>                 |  |
| <b>Other adverse effects</b>                     | No information available.  |

## **SECTION 12: Ecological information**

### **12.1. Toxicity**

**Ecotoxicity**

Very toxic to aquatic life with long lasting effects.

| Chemical name            | Algae/aquatic plants                               | Fish | Toxicity to microorganisms | Crustacea |
|--------------------------|--|------|----------------------------|-----------|
| 4-Nitrophenylacetic acid | EC50: 0.32 mg/l<br>(Raphidocelis subcapitata, 72h) | -    | -                          | -         |

**12.2. Persistence and degradability****Persistence and degradability** No information available.**12.3. Bioaccumulative potential****Bioaccumulation** There is no data for this product.**Component Information**

| Chemical name            | Partition coefficient |
|--------------------------|-----------------------|
| 4-Nitrophenylacetic acid | 0.3                   |

**12.4. Mobility in soil****Mobility in soil** No information available.**12.5. Results of PBT and vPvB assessment****PBT and vPvB assessment** No information available.**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

### IATA

|                                   |  |
|-----------------------------------|--|
| 14.1 UN number or ID number       | UN3077   |
| 14.2 UN proper shipping name      | Environmentally hazardous substances, solid, n.o.s. (4-Nitrophenylacetic acid)                 |
| 14.3 Transport hazard class(es)   | 9  |
| 14.4 Packing group                | III  |
| Description                       | UN3077, Environmentally hazardous substances, solid, n.o.s. (4-Nitrophenylacetic acid), 9, III |
| 14.5 Environmental hazards        | Yes  |
| 14.6 Special precautions for user |  |
| Special Provisions                | A97, A158, A179, A197, A215  |
| ERG Code                          | 9L   |

### IMDG

|  |  |
|--|--|
| 14.1 UN number or ID number                                  | UN3077   |
| 14.2 UN proper shipping name                                 | Environmentally hazardous substances, solid, n.o.s. (4-Nitrophenylacetic acid)                                   |
| 14.3 Transport hazard class(es)                              | 9  |
| 14.4 Packing group   | III  |
| Description  | UN3077, Environmentally hazardous substances, solid, n.o.s. (4-Nitrophenylacetic acid), 9, III, Marine pollutant |
| 14.5 Marine pollutant  | P  |
| Environmental hazards  | Yes  |
| 14.6 Special precautions for user                            |  |
| Special Provisions   | 274, 335, 966, 967, 969  |
| EmS-No.  | F-A, S-F No information available  |
| 14.7 Maritime transport in bulk according to IMO instruments | No information available   |

### RID

|                                   |  |
|-----------------------------------|--|
| 14.1 UN number or ID number       | UN3077   |
| 14.2 UN proper shipping name      | Environmentally hazardous substances, solid, n.o.s. (4-Nitrophenylacetic acid)                 |
| 14.3 Transport hazard class(es)   | 9  |
| 14.4 Packing group                | III  |
| Description                       | UN3077, Environmentally hazardous substances, solid, n.o.s. (4-Nitrophenylacetic acid), 9, III |
| 14.5 Environmental hazards        | Yes  |
| 14.6 Special precautions for user |  |
| Special Provisions                | 274, 335, 375, 601   |
| Classification code               | M7   |

### ADR

|                             |        |
|-----------------------------|--------|
| 14.1 UN number or ID number | UN3077 |
|-----------------------------|--------|

|                                   |   |
|-----------------------------------|---|
| 14.2 UN proper shipping name      | Environmentally hazardous substances, solid, n.o.s. (4-Nitrophenylacetic acid)                      |
| 14.3 Transport hazard class(es)   | 9   |
| 14.4 Packing group                | III   |
| Description                       | UN3077, Environmentally hazardous substances, solid, n.o.s. (4-Nitrophenylacetic acid), 9, III, (-) |
| 14.5 Environmental hazards        | Yes   |
| 14.6 Special precautions for user |   |
| Special Provisions                | 274, 335, 601, 375  |
| Classification code               | M7  |
| Tunnel restriction code           | (-)   |

## SECTION 15: Regulatory information

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

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

Poland

SDS created according to the following Polish regulation: Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws of 2018, item 143, as amended). Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing the European Chemicals Agency (EC) as amended. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures, as amended. Regulation of the Minister of Health of 10 August 2012 on the criteria and method of classifying chemical substances and their mixtures (Journal of Laws of 2012, item 1018). Regulation of the Minister of Health of 20 April 2012 on labeling packaging of hazardous substances and mixtures and some mixtures (Journal of Laws of 2012, item 445). Regulation of the Minister of Family, Labor and Social Policy of 12 June 2018 on the maximum allowable concentrations and intensities of factors harmful to health in the work environment (Journal of Laws of 2018, item 1286). Announcement of the Minister of Economy, Labor and Social Policy of August 28, 2003 on the publication of the unified text of the Ordinance of the Minister of Labor and Social Policy on general health and safety at work regulations (Journal of Laws of 2003, No. 169, item 1650). Regulation of the Minister of Health of 30 December 2004 on occupational safety and health related to the presence of chemical agents in the workplace (Journal of Laws of 2005, No. 11, item 86). Act of December 14, 2012 on waste (Journal of Laws of 2013, item 21) Regulation of the Minister of Health of December 30, 2004 on occupational health and safety related to the presence of chemical agents in the workplace (Journal U. of 2005, No. 11, item 86). Waste Act of December 14, 2012 (Journal of Laws of 2013, item 21). Act of 13 June 2013 on the management of packaging and packaging waste, Journal of Laws 2013, item 888).

**Government statement of September 24, 2002 - European Agreement on the International Carriage of Dangerous Goods by Road (ADR) (Journal of Laws No. 194, item 1629 and Journal of Laws of 2003, No. 207, item 2013 and 2014).**

**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

**Dangerous substance category per Seveso Directive (2012/18/EU)**

E1 - Hazardous to the Aquatic Environment in Category Acute 1 or Chronic 1

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

Not applicable

**International Inventories**

**TSCA**

Company, to the best of its ability, has confirmed that the chemical substances in this product are listed as "Active" in the EPA (Environmental Protection Agency) "TSCA Inventory Notification (Active-Inactive) Requirements Rule" ("the Final Rule") of Feb 2019, as amended Feb 2021."

**DSL/NDSL**

Contact supplier for inventory compliance status

**EINECS/ELINCS**

Contact supplier for inventory compliance status

**ENCS**

Contact supplier for inventory compliance status

**IECSC**

Contact supplier for inventory compliance status

**KECL**

Contact supplier for inventory compliance status

**PICCS**

Contact supplier for inventory compliance status

**AIIC**

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

H318 - Causes serious eye damage  
H341 - Suspected of causing genetic defects  
H400 - Very toxic to aquatic life  
H410 - Very toxic to aquatic life with long lasting effects

#### Legend

SVHC: Substances of Very High Concern for Authorisation:

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

TWA TWA (time-weighted average)  
Ceiling Maximum limit value

STEL  
Sk\*

STEL (Short Term Exposure Limit)  
Skin designation

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

Revision date N/A

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

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The Final Document will be available at the time of consignment.

# Can vary as per company.

End of Safety Data Sheet