



# 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 03-Oct-2022

Revision Number 1

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

### 1.1. Product identifier

**Product Code(s)** TRC-A678400-1G

**Product Name** Anthracene

**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)** 204-371-1

**CAS No.** 120-12-7

**Chemical name** Anthracene

**Pure substance/mixture** Substance

**Formula** C<sub>14</sub>H<sub>10</sub>

**Molecular weight** 178.23

### 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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Revision date 03-Oct-2022

Revision Number 1

TRC-A678400-1G - Anthracene

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]

|                                   |                     |
|-----------------------------------|---------------------|
| Skin corrosion/irritation         | Category 2 - (H315) |
| Serious eye damage/eye irritation | Category 2 - (H319) |



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Revision Number 1

TRC-A678400-1G - Anthracene

|                                                  |                     |
|--------------------------------------------------|---------------------|
| Carcinogenicity                                  | Category 2 - (H351) |
| Specific target organ toxicity — single exposure | Category 3 - (H335) |
| Category 3 Respiratory irritation                |                     |
| Acute aquatic toxicity                           | Category 1 - (H400) |
| Chronic aquatic toxicity                         | Category 1 - (H410) |

## 2.2. Label elements

Contains Anthracene



Signal word  
Warning

### Hazard statements

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer  
H410 - Very toxic to aquatic life with long lasting effects

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

P264 - Wash face, hands and any exposed skin thoroughly after handling  
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  
P391 - Collect spillage

## 2.3. Other hazards

This substance meets the PBT criteria of REACH, annex XIII. This substance meets the 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 |
|---------------|---------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| Anthracene    | -                                                                                                                         | -                                                                                |



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Revision Number 1

TRC-A678400-1G - Anthracene

## 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) |
|------------------------|----------|---------------------------|---------------------|-----------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|----------|----------------------|
| Anthracene<br>120-12-7 | 100      | -                         | 204-371-1           | Skin Irrit. 2 (H315)<br>Eye Irrit. 2 (H319)<br>Carc. 2 (H351)<br>STOT SE 3 (H335)<br>Aquatic Acute 1 (H400)<br>Aquatic Chronic 1 (H410) |                                    |          |                      |

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

#### Acute Toxicity Estimate

If LD50/LC50 data is not available or does not correspond to the classification category, then the appropriate conversion value from CLP Annex I, Table 3.1.2, is used to calculate the acute toxicity estimate (ATE<sub>mix</sub>) for classifying a mixture based on its components

| Chemical name          | Oral LD50 mg/kg | Dermal LD50 mg/kg | Inhalation LC50 - 4 hour - dust/mist - mg/L | Inhalation LC50 - 4 hour - vapour - mg/L | Inhalation LC50 - 4 hour - gas - ppm |
|------------------------|-----------------|-------------------|---------------------------------------------|------------------------------------------|--------------------------------------|
| Anthracene<br>120-12-7 | 16000           | 1320              | No data available                           | No data available                        | No data available                    |

This product contains one or more candidate substance(s) of very high concern (Regulation (EC) No. 1907/2006 (REACH), Article 59)

| Chemical name | CAS No.  | SVHC candidates |
|---------------|----------|-----------------|
| Anthracene    | 120-12-7 | X               |

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

#### General advice

IF exposed or concerned: Get medical advice/attention. Show this safety data sheet to the



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Revision date 03-Oct-2022

Revision Number 1

TRC-A678400-1G - Anthracene

---

|                                           |                                                                                                                                                                                                                                                                                     |
|-------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                                           | doctor in attendance.                                                                                                                                                                                                                                                               |
| <b>Inhalation</b>                         | Remove to fresh air. IF exposed or concerned: Get medical advice/attention. Get medical attention immediately if symptoms occur.                                                                                                                                                    |
| <b>Eye contact</b>                        | 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. Get medical attention if irritation develops and persists. |
| <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>                          | Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. 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> | May cause redness and tearing of the eyes. Burning sensation. |
|-----------------|---------------------------------------------------------------|

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

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

## **SECTION 5: Firefighting measures**

### 5.1. Extinguishing media

|                                     |                                                                                                         |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|
| <b>Suitable Extinguishing Media</b> | Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. |
|-------------------------------------|---------------------------------------------------------------------------------------------------------|

|                   |                                                                    |
|-------------------|--------------------------------------------------------------------|
| <b>Large Fire</b> | CAUTION: Use of water spray when fighting fire may be inefficient. |
|-------------------|--------------------------------------------------------------------|

|                                       |                                                                   |
|---------------------------------------|-------------------------------------------------------------------|
| <b>Unsuitable extinguishing media</b> | Do not scatter spilled material with high pressure water streams. |
|---------------------------------------|-------------------------------------------------------------------|

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

|                                                   |                           |
|---------------------------------------------------|---------------------------|
| <b>Specific hazards arising from the chemical</b> | No information available. |
|---------------------------------------------------|---------------------------|

### 5.3. Advice for firefighters

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

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Revision date 03-Oct-2022

Revision Number 1

TRC-A678400-1G - Anthracene

---

## 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. Avoid contact with skin, eyes or clothing. |
| 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. |
|-----------------------------|--------------------------------------------------------------------------|

## 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. Take off contaminated clothing and wash it before reuse. Ensure adequate ventilation. Avoid breathing vapours or mists. In case of insufficient ventilation, wear suitable respiratory equipment. |
| 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



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Revision date 03-Oct-2022

Revision Number 1

TRC-A678400-1G - Anthracene

## 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.

## 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

| Chemical name          | European Union | Austria                    | Belgium                                                                                         | Bulgaria                                                           | Croatia                             |
|------------------------|----------------|----------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-------------------------------------|
| Anthracene<br>120-12-7 | -              | Sk*                        | -                                                                                               | TWA: 0.1 mg/m <sup>3</sup><br>Sk*                                  | -                                   |
| Chemical name          | Cyprus         | Czech Republic             | Denmark                                                                                         | Estonia                                                            | Finland                             |
| Anthracene<br>120-12-7 | -              | -                          | TWA: 0.2 mg/m <sup>3</sup><br>STEL: 0.4 mg/m <sup>3</sup><br>Benzene soluble<br>fraction<br>Sk* | Sk*                                                                | Sk*                                 |
| Chemical name          | France         | Germany TRGS               | Germany DFG                                                                                     | Greece                                                             | Hungary                             |
| Anthracene<br>120-12-7 | -              | -                          | Sk*                                                                                             | -                                                                  | -                                   |
| Chemical name          | Luxembourg     | Malta                      | Netherlands                                                                                     | Norway                                                             | Poland                              |
| Anthracene<br>120-12-7 | -              | -                          | TWA: 550 ng/m <sup>3</sup><br>Sk*                                                               | TWA: 0.04 mg/m <sup>3</sup><br>STEL: 0.12 mg/m <sup>3</sup><br>Sk* | TWA: 0.002 mg/m <sup>3</sup><br>Sk* |
| Chemical name          | Portugal       | Romania                    | Slovakia                                                                                        | Slovenia                                                           | Spain                               |
| Anthracene<br>120-12-7 | -              | TWA: 0.2 mg/m <sup>3</sup> | -                                                                                               | Sk*                                                                | -                                   |
| Chemical name          | Sweden         |                            | Switzerland                                                                                     |                                                                    | United Kingdom                      |
| Anthracene<br>120-12-7 | Sk*            |                            | -                                                                                               |                                                                    | -                                   |

#### Biological occupational exposure limits

| Chemical name | European Union | Austria | Bulgaria | Croatia | Czech Republic |
|---------------|----------------|---------|----------|---------|----------------|
|---------------|----------------|---------|----------|---------|----------------|



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Revision Number 1

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|                        |         |                                                                  |             |                                                                                                                                                                                                |              |
|------------------------|---------|------------------------------------------------------------------|-------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|
| Anthracene<br>120-12-7 | -       | Check<br>( - )                                                   | -           | -                                                                                                                                                                                              | -            |
| Chemical name          | Denmark | Finland                                                          | France      | Germany DFG                                                                                                                                                                                    | Germany TRGS |
| Anthracene<br>120-12-7 | -       | -                                                                | -           | 0.3 µg/g Creatinine -<br>BAR (for long-term<br>exposures: at the<br>end of the shift after<br>several shifts) urine                                                                            | -            |
| Chemical name          | Hungary | Ireland                                                          | Italy MDLPS | Italy AIDII                                                                                                                                                                                    |              |
| Anthracene<br>120-12-7 | -       | 4 µmol/mol Creatinine<br>(urine - 1-Hydroxypyrene<br>post shift) | -           | 2.5 µg/L - urine<br>(1-Hydroxypyrene with<br>hydrolysis) - end of shift at<br>end of workweek<br>- urine<br>(3-Hydroxybenzo(a)pyren<br>e with hydrolysis) - end of<br>shift at end of workweek |              |

**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). If splashes are likely to occur, wear safety glasses with side-shields.

##### 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 Viton™ gloves. Wear suitable gloves. Impervious gloves.

##### Skin and body protection

Wear suitable protective clothing. Long sleeved 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.



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TRC-A678400-1G - Anthracene

## SECTION 9: Physical and chemical properties

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

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

| Property                                | Values                                      | Remarks • Method         |
|-----------------------------------------|---------------------------------------------|--------------------------|
| Melting point / freezing point          | 215.8 °C                                    | None known               |
| Initial boiling point and boiling range | 342 °C                                      | 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  | 0.6 vol% - 45 g/m <sup>3</sup>              |                          |
| Flash point                             | 182 °C                                      | CC (closed cup)          |
| Autoignition temperature                | 540 °C                                      | None known               |
| Decomposition temperature               | 342 °C                                      | 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                        | Insoluble in water                          | None known               |
| Solubility(ies)                         | Chloroform, Ethyl acetate, slightly soluble |                          |
| Partition coefficient                   | 4.5                                         | None known               |
| Vapour pressure                         | 0.0000091 hPa                               | @ 25 °C                  |
| Relative density                        | 1.28                                        | None known               |
| Bulk density                            | No data available                           |                          |
| Liquid Density                          | No data available                           |                          |
| Relative vapour density                 | 6.15                                        | None known               |
| Particle characteristics                |                                             |                          |
| Particle Size                           | No information available                    |                          |
| Particle Size Distribution              | No information available                    |                          |

### 9.2. Other information

|                   |                                 |
|-------------------|---------------------------------|
| Molecular weight  | 178.23                          |
| Molecular formula | C <sub>14</sub> H <sub>10</sub> |

9.2.1. Information with regards to physical hazard classes  
Not applicable 342 °C 342 °C



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Revision date 03-Oct-2022

Revision Number 1

TRC-A678400-1G - Anthracene

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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

Conditions to avoid None known based on information supplied.

### 10.5. Incompatible materials

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

### 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. May cause irritation of respiratory tract.

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Revision date 03-Oct-2022

Revision Number 1

## TRC-A678400-1G - Anthracene

|              |                                                                                                                                                               |
|--------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Eye contact  | Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain. |
| Skin contact | Specific test data for the substance or mixture is not available. Causes skin irritation. (based on components).                                              |
| 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. May cause redness and tearing of the eyes.

### Numerical measures of toxicity

**Acute toxicity**

### Component Information

| Chemical name | Oral LD50         | Dermal LD50          | Inhalation LC50 |
|---------------|-------------------|----------------------|-----------------|
| Anthracene    | > 16 g/kg ( Rat ) | > 1320 mg/kg ( Rat ) |                 |

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

|                                   |                                                                                                                                |
|-----------------------------------|--------------------------------------------------------------------------------------------------------------------------------|
| Skin corrosion/irritation         | Classification based on data available for ingredients. Causes skin irritation. May cause skin irritation.                     |
| Serious eye damage/eye irritation | Classification based on data available for ingredients. Causes serious eye irritation.                                         |
| Respiratory or skin sensitisation | No information available.                                                                                                      |
| Germ cell mutagenicity            | No information available.                                                                                                      |
| Carcinogenicity                   | Contains a known or suspected carcinogen. Classification based on data available for ingredients. Suspected of causing cancer. |



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Revision date 03-Oct-2022

Revision Number 1

TRC-A678400-1G - Anthracene

Reproductive toxicity No information available.

STOT - single exposure May cause respiratory irritation.

STOT - repeated exposure No information available.

Aspiration hazard 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

### 12.1. Toxicity

Ecotoxicity Very toxic to aquatic life with long lasting effects.

| Chemical name | Algae/aquatic plants | Fish                                                                                              | Toxicity to microorganisms | Crustacea                                    |
|---------------|----------------------|---------------------------------------------------------------------------------------------------|----------------------------|----------------------------------------------|
| Anthracene    | -                    | LC50: 0 - 0.00318mg/L (96h, Lepomis macrochirus)<br>LC50: =0.00278mg/L (96h, Lepomis macrochirus) | -                          | EC50: 0.081 - 0.112mg/L (48h, Daphnia magna) |

### 12.2. Persistence and degradability

Persistence and degradability No information available.

### 12.3. Bioaccumulative potential

Bioaccumulation There is no data for this product.



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Regulation (EC) No. 1907/2006 and Regulation (EC) No. 1272/2008

Revision date 03-Oct-2022

Revision Number 1

TRC-A678400-1G - Anthracene

## Component Information

| Chemical name | Partition coefficient |
|---------------|-----------------------|
| Anthracene    | 4.65                  |

## 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 contains substance(s) classified as PBT or vPvB.

| Chemical name | PBT and vPvB assessment |
|---------------|-------------------------|
| Anthracene    | PBT / vPvB substance    |

## 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. (Anthracene)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3077, Environmentally hazardous substances, solid, n.o.s. (Anthracene), 9, III  
14.5 Environmental hazards Yes  
14.6 Special precautions for user



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Revision date 03-Oct-2022

Revision Number 1

TRC-A678400-1G - Anthracene

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. (Anthracene)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3077, Environmentally hazardous substances, solid, n.o.s. (Anthracene), 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. (Anthracene)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3077, Environmentally hazardous substances, solid, n.o.s. (Anthracene), 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. (Anthracene)  
14.3 Transport hazard class(es) 9  
14.4 Packing group III  
Description UN3077, Environmentally hazardous substances, solid, n.o.s. (Anthracene), 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



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Revision date 03-Oct-2022

Revision Number 1

TRC-A678400-1G - Anthracene

## National regulations

### Germany

Water hazard class (WGK) obviously hazardous to water (WGK 2)

### 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 contains one or more substance(s) 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

| Chemical name         | Restricted substance per REACH Annex XVII | Substance subject to authorisation per REACH Annex XIV |
|-----------------------|-------------------------------------------|--------------------------------------------------------|
| Anthracene - 120-12-7 | 75                                        |                                                        |

### 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

### EU - Water Framework Directive (2000/60/EC)

| Chemical name         | EU - Water Framework Directive (2000/60/EC) |
|-----------------------|---------------------------------------------|
| Anthracene - 120-12-7 | Priority hazardous substance                |

### EU - Environmental Quality Standards (2008/105/EC)

| Chemical name         | EU - Environmental Quality Standards (2008/105/EC) |
|-----------------------|----------------------------------------------------|
| Anthracene - 120-12-7 | Priority hazardous substance                       |

### International Inventories

TSCA

LGC, to the best of its ability, has confirmed that the chemical substances in this product are



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Revision Number 1

TRC-A678400-1G - Anthracene

DSL/NDL  
EINECS/ELINCS  
ENCS  
IECSC  
KECL  
PICCS  
AICS

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."

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/NDL** - 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**

H315 - Causes skin irritation  
H319 - Causes serious eye irritation  
H335 - May cause respiratory irritation  
H351 - Suspected of causing cancer  
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:  
PBT: Persistent, Bioaccumulative, and Toxic (PBT) Substances  
vPvB: Very Persistent and very Bioaccumulative (vPvB) Substances

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



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Revision date 03-Oct-2022

Revision Number 1

## TRC-A678400-1G - Anthracene

| TWA<br>Ceiling | TWA (time-weighted average)<br>Maximum limit value | STEL<br>Sk* | STEL (Short Term Exposure Limit)<br>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 |
| 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) (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



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Revision date 03-Oct-2022

Revision Number 1

**TRC-A678400-1G - Anthracene**

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World Health Organization

Revision date 03-Oct-2022

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

## Disclaimer

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**End of Safety Data Sheet**