

**PAH-Mixture (16C) standard solution**

Revision: 28.05.2025

Product code: AC18.04043

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

PAH-Mixture (16C) standard solution

UFI: N3QJ-M2AM-EWC2-3NUR

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

Reagents and laboratory chemicals

Only for laboratory and analysis purposes.

**Uses advised against**

Do not use for private purposes (household).

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

Company name: AnalytiChem Services, Unipessoal, Lda  
Street: Rua de Júlio Dinis 676 7º  
Place: N-4050-320 Porto  
Telephone: +351 226002917  
E-mail: info@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Internet: www.analytichem.com  
Responsible Department: SDS service department

**Supplier or manufacturer details**

Company name: AnalytiChem Belgium NV  
Street: Industriezone "De Arend" 2  
Place: B-8210 Zedelgem  
Telephone: +32 50 28 83 20  
E-mail: info.be@analytichem.com  
Contact person: SDS service department  
E-mail: SDS@analytichem.com  
Responsible Department: AnalytiChem:  
EU-Belgium: AnalytiChem Belgium, Industriezone "De Arend" 2, 8210 Zedelgem, Belgium, +32 50 28 83 20  
EU-Germany: AnalytiChem Germany, Stempelstrasse 6, 47167 Duisburg, Germany, +49 203 51 94 – 200  
EU-Netherlands: AnalytiChem Netherlands, Communicatieweg 7, 3641 SG Mijdrecht, The Netherlands, +31 297 286848  
UK: AnalytiChem UK, Unit 7 Launton Business Center, Murdock Road, Bicester, OX26 4XB, England, +44 1869 355 500  
USA: AnalytiChem USA, 227 China Road, Winslow, Maine, 04901, United States, +1 800-244-8378  
Canada: AnalytiChem Canada, 21800 Clark Graham Avenue, Baie d'Urfe, H9X 4B6, Canada, +1 514-457-0701  
Australia: ORE Research & Exploration Pty Ltd, 37A Hosie Street, Bayswater North, 3153, Australia, +61 3 9729 0333  
+44 20 3807 3798 (CHEMTREC)

**1.4. Emergency telephone number:****Further Information**

No data available

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## SECTION 2: Hazards identification

**2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

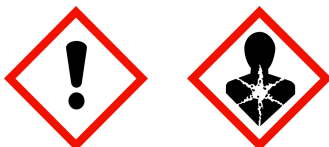
Carc. 2; H351  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008**

Signal word: Warning

Pictograms:

**Hazard statements**

H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H351 Suspected of causing cancer.

**Precautionary statements**

P201 Obtain special instructions before use.  
P280 Wear protective gloves/protective clothing and eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of water.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 IF exposed or concerned: Get medical advice/attention.  
P337+P313 If eye irritation persists: Get medical advice/attention.

**2.3. Other hazards**

No data available

## SECTION 3: Composition/information on ingredients

**3.2. Mixtures****Relevant ingredients**

| CAS No  | Chemical name                                                        |              |                  | Quantity |
|---------|----------------------------------------------------------------------|--------------|------------------|----------|
|         | EC No                                                                | Index No     | REACH No         |          |
|         | Classification (Regulation (EC) No 1272/2008)                        |              |                  |          |
| 75-09-2 | dichloromethane                                                      |              |                  | 100 %    |
|         | 200-838-9                                                            | 602-004-00-3 | 01-2119480404-41 |          |
|         | Carc. 2, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3; H351 H315 H319 H336 |              |                  |          |

Full text of H and EUH statements: see section 16.

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## Specific Conc. Limits, M-factors and ATE

| CAS No  | EC No     | Chemical name                                          | Quantity |
|---------|-----------|--------------------------------------------------------|----------|
|         |           | Specific Conc. Limits, M-factors and ATE               |          |
| 75-09-2 | 200-838-9 | dichloromethane                                        | 100 %    |
|         |           | dermal: LD50 = > 2000 mg/kg; oral: LD50 = > 2000 mg/kg |          |

## Further Information

No data available

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

First aider: Pay attention to self-protection!

Do not breathe vapour/aerosol.

## After inhalation

Provide fresh air.

If breathing is irregular or stopped, administer artificial respiration.

Call a physician immediately.

## After contact with skin

Wash immediately with: Water

Take off immediately all contaminated clothing and wash it before reuse.

Call a physician immediately.

## After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Remove contact lenses, if present and easy to do. Continue rinsing.

Protect uninjured eye.

## After ingestion

Observe risk of aspiration if vomiting occurs.

Call a physician immediately.

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

Irritant

Vapours may cause drowsiness and dizziness.

Dizziness, Inebriation

Gastrointestinal complaints, Vomiting

Unconsciousness, Cough

Respiratory complaints, Dyspnoea

Corneal opacity. Circulatory collapse

Liver and kidney damage

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

No data available

## SECTION 5: Firefighting measures

## 5.1. Extinguishing media

## Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

## Unsuitable extinguishing media

no restriction

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

Non-combustible liquids  
Hazardous combustion products  
In case of fire may be liberated:  
Hydrogen chloride (HCl)  
Phosgene

**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus.  
In case of fire and/or explosion do not breathe fumes.  
Avoid contact with skin, eyes and clothes.

**Additional information**

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.  
Move undamaged containers from immediate hazard area if it can be done safely.  
Use water spray jet to protect personnel and to cool endangered containers.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Do not breathe vapour/aerosol.

**For non-emergency personnel**

Provide adequate ventilation.  
Use personal protection equipment.  
Avoid contact with skin, eyes and clothes.  
Remove persons to safety.  
Emergency procedures  
Consult an expert  
Do not breathe dust/fume/gas/mist/vapours/spray.

**For emergency responders**

Precautionary statements For emergency responders : Personal protection equipment: see section 8

**6.2. Environmental precautions**

Do not allow to enter into surface water or drains.

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

Cover drains.  
Prevent spread over a wide area (e.g. by containment or oil barriers).  
Collect in closed and suitable containers for disposal.  
Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

**For cleaning up**

Clean contaminated articles and floor according to the environmental legislation.

**Other information**

Provide adequate ventilation.  
Do not breathe dust/fume/gas/mist/vapours/spray.  
Wear breathing apparatus if exposed to vapours/dusts/aerosols.

**6.4. Reference to other sections**

Safe handling: see section 7  
Personal protection equipment: see section 8  
Disposal: see section 13

**SECTION 7: Handling and storage**

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**7.1. Precautions for safe handling****Advice on safe handling**

Avoid exposure - obtain special instructions before use.  
Read label before use. Handle and open container with care.  
When using do not eat, drink, smoke, sniff. Use personal protection equipment.  
Provide adequate ventilation. Avoid contact with skin, eyes and clothes.  
Do not breathe vapour/aerosol. Use extractor hood (laboratory).

**Advice on protection against fire and explosion**

Usual measures for fire prevention.

**Advice on general occupational hygiene**

Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately.  
Draw up and observe skin protection programme. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink. Avoid: aerosol or mist formation Do not breathe vapour/aerosol.

**Further information on handling**

Draw up and observe skin protection programme.  
Wash hands and face before breaks and after work and take a shower if necessary.  
Take off immediately all contaminated clothing and wash it before reuse.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store in a well-ventilated place. Keep container tightly closed.  
Store in a place accessible by authorized persons only.  
Protect against: Light

**Hints on joint storage**

National regulatory information

**Further information on storage conditions**

Keep cool. Protect from sunlight.  
Store in a place accessible by authorized persons only.

**7.3. Specific end use(s)**

Laboratory chemicals  
Only for laboratory and analysis purposes.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Exposure limits (EH40)**

| CAS No  | Substance       | ppm | mg/m <sup>3</sup> | fibres/ml | Category      | Origin |
|---------|-----------------|-----|-------------------|-----------|---------------|--------|
| 75-09-2 | Dichloromethane | 100 | 353               |           | TWA (8 h)     | WEL    |
|         |                 | 200 | 706               |           | STEL (15 min) | WEL    |

**Biological Monitoring Guidance Values (EH40)**

| CAS No  | Substance       | Parameter       | Value  | Test material    | Sampling time |
|---------|-----------------|-----------------|--------|------------------|---------------|
| 75-09-2 | Dichloromethane | carbon monoxide | 30 ppm | end-tidal breath | Post shift    |

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## DNEL/DMEL values

| CAS No                   | Substance       |                |          |                   |
|--------------------------|-----------------|----------------|----------|-------------------|
| DNEL type                |                 | Exposure route | Effect   | Value             |
| 75-09-2                  | dichloromethane |                |          |                   |
| Worker DNEL, long-term   |                 | inhalation     | systemic | 353 mg/m³         |
| Worker DNEL, acute       |                 | inhalation     | systemic | 706 mg/m³         |
| Worker DNEL, long-term   |                 | dermal         | systemic | 12 mg/kg bw/day   |
| Consumer DNEL, long-term |                 | inhalation     | systemic | 88,3 mg/m³        |
| Consumer DNEL, acute     |                 | inhalation     | systemic | 353 mg/m³         |
| Consumer DNEL, long-term |                 | dermal         | systemic | 5,82 mg/kg bw/day |
| Consumer DNEL, long-term |                 | oral           | systemic | 0,06 mg/kg bw/day |

## PNEC values

| CAS No                                           | Substance       |  |
|--------------------------------------------------|-----------------|--|
| Environmental compartment                        | Value           |  |
| 75-09-2                                          | dichloromethane |  |
| Freshwater                                       | 0,31 mg/l       |  |
| Freshwater (intermittent releases)               | 0,27 mg/l       |  |
| Marine water                                     | 0,031 mg/l      |  |
| Freshwater sediment                              | 2,57 mg/kg      |  |
| Marine sediment                                  | 0,26 mg/kg      |  |
| Micro-organisms in sewage treatment plants (STP) | 26 mg/l         |  |
| Soil                                             | 0,33 mg/kg      |  |

## 8.2. Exposure controls

## Appropriate engineering controls

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

If handled uncovered, arrangements with local exhaust ventilation have to be used.

Do not breathe dust/fume/gas/mist/vapours/spray.

## Individual protection measures, such as personal protective equipment

## Eye/face protection

goggles

## Hand protection

Tested protective gloves must be worn

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

## Skin protection

Wear suitable protective clothing.

Wash hands before breaks and after work.

## Respiratory protection

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

## Thermal hazards

No data available

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**Environmental exposure controls**

Do not allow to enter into surface water or drains.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

|                                                           |                        |
|-----------------------------------------------------------|------------------------|
| Physical state:                                           | Liquid                 |
| Colour:                                                   | clear                  |
| Odour:                                                    | characteristic         |
| Odour threshold:                                          | No data available      |
| Melting point/freezing point:                             | -95 °C                 |
| Boiling point or initial boiling point and boiling range: | 40 °C                  |
| Flammability:                                             | No data available      |
| Lower explosion limits:                                   | No data available      |
| Upper explosion limits:                                   | No data available      |
| Flash point:                                              | No data available      |
| Auto-ignition temperature:                                | 605 °C                 |
| Decomposition temperature:                                | No data available      |
| pH-Value:                                                 | No data available      |
| Viscosity / kinematic:                                    | No data available      |
| Water solubility:                                         | No data available      |
| Solubility in other solvents                              | No data available      |
| Dissolution rate:                                         | No data available      |
| Partition coefficient n-octanol/water:                    | No data available      |
| Dispersion stability:                                     | No data available      |
| Vapour pressure:                                          | No data available      |
| Density:                                                  | 1,32 g/cm <sup>3</sup> |
| Relative density:                                         | No data available      |
| Bulk density:                                             | No data available      |
| Relative vapour density:                                  | No data available      |
| Particle characteristics:                                 | No data available      |

**9.2. Other information****Information with regard to physical hazard classes**

## Explosive properties

No data available

## Sustained combustibility:

No data available

## Self-ignition temperature

Solid:

No data available

Gas:

No data available

**Other safety characteristics**

## Evaporation rate:

No data available

## Solvent separation test:

No data available

## Solvent content:

No data available

## Solid content:

No data available

## Sublimation point:

No data available

## Softening point:

No data available

## Pour point:

No data available

## No data available:

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Viscosity / dynamic:

No data available

Flow time:

No data available

**Further Information**

No data available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

No data available

**10.2. Chemical stability**

Protect against: Light, Heat

**10.3. Possibility of hazardous reactions**

Alkali metals

Alkaline earth metal

Nitric acid

Amines

**10.4. Conditions to avoid**

Light, Heat

**10.5. Incompatible materials**

Rubber articles

plastics

metals

Light metal

Steel

**10.6. Hazardous decomposition products**

In case of fire may be liberated:

SECTION 5: Firefighting measures

**Further information**

No data available

**SECTION 11: Toxicological information****11.1. Information on hazard classes****Toxicokinetics, metabolism and distribution**

Avoid exposure - obtain special instructions before use.

**Acute toxicity**

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

**ATEmix calculated**

ATE (oral) &gt; 2000 mg/kg; ATE (dermal) &gt; 2000 mg/kg; ATE (inhalation vapour) &gt; 20 mg/l; ATE (inhalation dust/mist) &gt; 5 mg/l

| CAS No  | Chemical name   |                   |         |                           |                    |
|---------|-----------------|-------------------|---------|---------------------------|--------------------|
|         | Exposure route  | Dose              | Species | Source                    | Method             |
| 75-09-2 | dichloromethane |                   |         |                           |                    |
|         | oral            | LD50 > 2000 mg/kg | Rat     | Other company data (1988) | OECD Guideline 401 |
|         | dermal          | LD50 > 2000 mg/kg | Rat     | Other company data (1988) | OECD Guideline 402 |



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**Irritation and corrosivity**

Skin corrosion/irritation: Causes skin irritation.  
Serious eye damage/eye irritation: Causes serious eye irritation.  
Has degreasing effect on the skin.

**Sensitising effects**

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

**Carcinogenic/mutagenic/toxic effects for reproduction**

Suspected of causing cancer. (dichloromethane)  
Germ cell mutagenicity: Based on available data, the classification criteria are not met.  
Reproductive toxicity: Based on available data, the classification criteria are not met.

**STOT-single exposure**

May cause drowsiness or dizziness. (dichloromethane)

**STOT-repeated exposure**

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

**Aspiration hazard**

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

**Information on likely routes of exposure**

There are no data available on the mixture itself.

**Specific effects in experiment on an animal**

There are no data available on the mixture itself.

**Additional information on tests**

There are no data available on the mixture itself.

**Practical experience**

There are no data available on the mixture itself.

**11.2. Information on other hazards****Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Other information**

There are no data available on the mixture itself.

**Further information**

Irritant  
Vapours may cause drowsiness and dizziness.  
Dizziness, Inebriation  
Gastrointestinal complaints, Vomiting  
Unconsciousness, Cough  
Respiratory complaints, Dyspnoea  
Corneal opacity. Circulatory collapse  
Liver and kidney damage

**SECTION 12: Ecological information****12.1. Toxicity**

Based on available data, the classification criteria are not met.  
There are no data available on the mixture itself.

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| CAS No  | Chemical name            |      |           |                          |                                           |                                          |
|---------|--------------------------|------|-----------|--------------------------|-------------------------------------------|------------------------------------------|
|         | Aquatic toxicity         | Dose | [h]   [d] | Species                  | Source                                    | Method                                   |
| 75-09-2 | dichloromethane          |      |           |                          |                                           |                                          |
|         | Acute fish toxicity      | LC50 | 193 mg/l  | 96 h Pimephales promelas | Bull Environ Contam Toxicol 20, 344-352   | According to test methods described by t |
|         | Acute crustacea toxicity | EC50 | 27 mg/l   | 48 h Daphnia magna       | Study report (1979)                       | According EPA publication                |
|         | Fish toxicity            | NOEC | 357 mg/l  | 8 d Pimephales promelas  | Bull Environ Contam Toxicol 39, 869-876 ( | other: ASTM E729-80                      |

**12.2. Persistence and degradability**

There are no data available on the mixture itself.

**12.3. Bioaccumulative potential**

There are no data available on the mixture itself.

**Partition coefficient n-octanol/water**

| CAS No  | Chemical name   | Log Pow |
|---------|-----------------|---------|
| 75-09-2 | dichloromethane | 1,25    |

**BCF**

| CAS No  | Chemical name   | BCF            | Species | Source               |
|---------|-----------------|----------------|---------|----------------------|
| 75-09-2 | dichloromethane | > 0,91 - < 7,9 |         | Washington, DC, US E |

**12.4. Mobility in soil**

There are no data available on the mixture itself.

**12.5. Results of PBT and vPvB assessment**

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.

**12.6. Endocrine disrupting properties**

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7. Other adverse effects**

Discharge into the environment must be avoided.

**Further information**

Do not allow to enter into surface water or drains.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Dispose of contents/container to hazardous or special waste collection point.

Do not allow to enter into surface water or drains.

**Contaminated packaging**

Handle contaminated packages in the same way as the substance itself.

**SECTION 14: Transport information****Land transport (ADR/RID)**

|                                          |                 |
|------------------------------------------|-----------------|
| <b>14.1. UN number or ID number:</b>     | UN 1593         |
| <b>14.2. UN proper shipping name:</b>    | DICHLOROMETHANE |
| <b>14.3. Transport hazard class(es):</b> | 6.1             |

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**14.4. Packing group:**

|                          |     |
|--------------------------|-----|
|                          | III |
| Hazard label:            | 6.1 |
| Classification code:     | T1  |
| Special Provisions:      | 516 |
| Limited quantity:        | 5 L |
| Excepted quantity:       | E1  |
| Transport category:      | 2   |
| Hazard No:               | 60  |
| Tunnel restriction code: | E   |

**Inland waterways transport (ADN)**

|                                          |                 |
|------------------------------------------|-----------------|
| <b>14.1. UN number or ID number:</b>     | UN 1593         |
| <b>14.2. UN proper shipping name:</b>    | DICHLOROMETHANE |
| <b>14.3. Transport hazard class(es):</b> | 6.1             |
| <b>14.4. Packing group:</b>              | III             |
| Hazard label:                            | 6.1             |
| Classification code:                     | T1              |
| Special Provisions:                      | 516 802         |
| Limited quantity:                        | 5 L             |
| Excepted quantity:                       | E1              |

**Marine transport (IMDG)**

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| <b>14.1. UN number or ID number:</b>     | UN 1593                              |
| <b>14.2. UN proper shipping name:</b>    | DICHLOROMETHANE                      |
| <b>14.3. Transport hazard class(es):</b> | 6.1                                  |
| <b>14.4. Packing group:</b>              | III                                  |
| Hazard label:                            | 6.1                                  |
| Special Provisions:                      | -                                    |
| Limited quantity:                        | 5 L                                  |
| Excepted quantity:                       | E1                                   |
| EmS:                                     | F-A, S-A                             |
| Segregation group:                       | 10 - liquid halogenated hydrocarbons |

**Air transport (ICAO-TI/IATA-DGR)**

|                                          |                 |
|------------------------------------------|-----------------|
| <b>14.1. UN number or ID number:</b>     | UN 1593         |
| <b>14.2. UN proper shipping name:</b>    | DICHLOROMETHANE |
| <b>14.3. Transport hazard class(es):</b> | 6.1             |
| <b>14.4. Packing group:</b>              | III             |
| Hazard label:                            | 6.1             |
| Limited quantity Passenger:              | 2 L             |
| Passenger LQ:                            | Y642            |
| Excepted quantity:                       | E1              |
| IATA-packing instructions - Passenger:   | 655             |
| IATA-max. quantity - Passenger:          | 60 L            |
| IATA-packing instructions - Cargo:       | 663             |
| IATA-max. quantity - Cargo:              | 220 L           |

**14.5. Environmental hazards**

|                            |    |
|----------------------------|----|
| ENVIRONMENTALLY HAZARDOUS: | No |
|----------------------------|----|

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

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Restrictions on use (REACH, annex XVII):

Entry 3, Entry 59, Entry 75

Information according to Directive

Not subject to 2012/18/EU (SEVESO III)

2012/18/EU (SEVESO III):

**National regulatory information****SECTION 16: Other information****Abbreviations and acronyms**

Skin Irrit. 2: Skin irritation, hazard category 2

Eye Irrit. 2: Eye irritation, hazard category 2

Carc. 2: Carcinogenicity, hazard category 2

STOT SE 3: Specific target organ toxicity - single exposure, hazard category 3

**Classification for mixtures and used evaluation method**

| Classification      | Classification procedure |
|---------------------|--------------------------|
| Carc. 2; H351       | Calculation method       |
| Skin Irrit. 2; H315 | Calculation method       |
| Eye Irrit. 2; H319  | Calculation method       |
| STOT SE 3; H336     | Calculation method       |

**Relevant H and EUH statements (number and full text)**

H315

Causes skin irritation.

H319

Causes serious eye irritation.

H336

May cause drowsiness or dizziness.

H351

Suspected of causing cancer.

**Further Information**

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights.

The receiver of our product is singularly responsible for adhering to existing laws and regulations.

*(The data for the relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*