SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

METALURE A-41014 BG

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

1.1 Product identifier
   Trade name : METALURE A-41014 BG
   Trade name : 021745IA0

1.2 Relevant identified uses of the substance or mixture and uses advised against
   This information is not available.

1.3 Details of the supplier of the safety data sheet
   Company : ECKART GmbH
             Guentersthal 4
             91235 Hartenstein
   Telephone : +499152770
   Telefax : +499152777008
   E-mail address of person responsible for the SDS : msds.eckart@altana.com

1.4 Emergency telephone number
   GBK Gefahrgut Büro GmbH, Ingelheim, Germany:
   From outside US: (001) 352-323-3500
   (First call in English, response in your language is possible)
   US & Canada (toll free) : 1-800-5355-053

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)
   Flammable liquids, Category 3
   Acute toxicity, Category 4
   Acute toxicity, Category 4
   Acute toxicity, Category 4
   Skin irritation, Category 2
   Eye irritation, Category 2
   H226: Flammable liquid and vapour.
   H302: Harmful if swallowed.
   H332: Harmful if inhaled.
   H312: Harmful in contact with skin.
   H315: Causes skin irritation.
   H319: Causes serious eye irritation.

Classification (67/548/EEC, 1999/45/EC)
   Flammable
   Harmful
   R10: Flammable.
   R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
Irritant R36/38: Irritating to eyes and skin.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)
Hazard pictograms:
- Flammable liquid and vapour. H226
- Harmful if swallowed, in contact with skin or if inhaled H302 + H312 + H332
- Causes skin irritation. H315
- Causes serious eye irritation. H319

Signal word: Warning

Hazard statements:
- Flammable liquid and vapour. H226
- Harmful if swallowed, in contact with skin or if inhaled H302 + H312 + H332
- Causes skin irritation. H315
- Causes serious eye irritation. H319

Precautionary statements:
Prevention:
- Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210
- Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray. P261
- Wear protective gloves/ eye protection/ face protection. P280

Response:
- IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P303 + P361 + P353
- IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER or doctor/ physician if you feel unwell. P304 + P340 + P312
- In case of fire: Use for extinction: Special powder for metal fires. P370 + P378
- In case of fire: Use for extinction: Dry sand. P370 + P378

Hazardous components which must be listed on the label:
- 111-76-2 2-butoxyethanol

2.3 Other hazards
This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
No information available.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Hazardous components
SAFETY DATA SHEET  
according to Regulation (EC) No. 1907/2006  

METALURE A-41014 BG

Version 1.0  
Revision Date: 03.07.2015  
MSDS Number: 102000023174  
Print Date: 19.11.2018  
Date of first issue: 03.07.2015

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>EC-No.</th>
<th>Registration number</th>
<th>Classification (67/548/EEC)</th>
<th>Classification (REGULATION (EC) No 1272/2008)</th>
<th>Concentration (%)</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>203-905-0</td>
<td></td>
<td>Xn; R20/21/22</td>
<td>Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319</td>
<td>&gt;= 70 - &lt; 90</td>
</tr>
<tr>
<td>aluminium powder</td>
<td>7429-90-5</td>
<td>231-072-3</td>
<td></td>
<td>F; R11</td>
<td>Flam. Sol. 1; H228</td>
<td>&gt;= 10 - &lt; 20</td>
</tr>
<tr>
<td>(stabilised)</td>
<td></td>
<td></td>
<td></td>
<td>Xi; R36/38</td>
<td></td>
<td></td>
</tr>
<tr>
<td>acetone</td>
<td>67-64-1</td>
<td>200-662-2</td>
<td></td>
<td>F; R11</td>
<td>Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336</td>
<td>&gt;= 1 - &lt; 3</td>
</tr>
</tbody>
</table>

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

For explanation of abbreviations see section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

General advice: Move the victim to fresh air.
Do not leave the victim unattended.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.

If inhaled: If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.

In case of skin contact: Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.

In case of eye contact: Immediately flush eye(s) with plenty of water.
Immediately flush eye(s) with plenty of water.
Remove contact lenses.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.

If swallowed: Keep respiratory tract clear.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
4.2 Most important symptoms and effects, both acute and delayed
   Symptoms : No information available.
   Risks : No information available.

4.3 Indication of any immediate medical attention and special treatment needed
   Treatment : No information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media
   Suitable extinguishing media : Dry sand
                                 ABC powder
                                 Foam
   Unsuitable extinguishing media : Water

5.2 Special hazards arising from the substance or mixture
   Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters
   Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
   Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. For safety reasons in case of fire, cans should be stored separately in closed containments.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
   Personal precautions : Evacuate personnel to safe areas.
                          Use personal protective equipment.
                          Remove all sources of ignition.
                          Evacuate personnel to safe areas.
                          Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions
   Environmental precautions : Prevent product from entering drains.
                              Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).
Do not flush with water.

6.4 Reference to other sections
For personal protection see section 8.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Avoid formation of aerosol. Do not breathe vapours/dust. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Take precautionary measures against static discharges. Provide sufficient air exchange and/or exhaust in work rooms. Open drum carefully as content may be under pressure. Dispose of rinse water in accordance with local and national regulations.

Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours). Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Earthing of containers and apparatuses is essential. Reaction with water liberates extremely flammable gas (hydrogen) Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment. Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep away from sources of ignition - No smoking. Keep container closed when not in use.

No smoking. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Electrical
installations / working materials must comply with the technological safety standards.

Further information on storage conditions: Protect from humidity and water.

Advice on common storage: Do not store near acids.
Do not store together with oxidizing and self-igniting products.
Never allow product to get in contact with water during storage.
Keep away from oxidising agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data: No decomposition if stored and applied as directed.

7.3 Specific end use(s)
This information is not available.

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

<table>
<thead>
<tr>
<th>Occupational Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>Components</td>
</tr>
<tr>
<td>2-butoxyethanol</td>
</tr>
<tr>
<td>Further information</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Further information</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>Further information</td>
</tr>
<tr>
<td>aluminium powder (stabilised)</td>
</tr>
<tr>
<td>Further information</td>
</tr>
</tbody>
</table>
SAFETY DATA SHEET
generated according to Regulation (EC) No. 1907/2006

METALURE A-41014 BG

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<tr>
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<tr>
<td>1.0</td>
<td>03.07.2015</td>
<td>1020000023174</td>
<td>19.11.2018</td>
<td>03.07.2015</td>
</tr>
</tbody>
</table>

mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>TWA (Inhalable)</th>
<th>10 mg/m3</th>
<th>GB EH40</th>
</tr>
</thead>
</table>

Further information

For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

<table>
<thead>
<tr>
<th>TWA (Respirable)</th>
<th>4 mg/m3</th>
<th>GB EH40</th>
</tr>
</thead>
</table>

Further information

For the purposes of these limits, respirable dust and inhalable dust are those fractions of airborne dust which will be collected when sampling is undertaken in accordance with the methods described in MDHS14/3 General methods for sampling and gravimetric analysis of respirable and inhalable dust. The COSHH definition of a substance hazardous to health includes dust of any kind when present at a concentration in air equal to or greater than 10 mg.m-3 8-hour TWA of inhalable dust or 4 mg.m-3 8-hour TWA of respirable dust. This means that any dust will be subject to COSHH if people are exposed above these levels. Some dusts have been assigned specific WELs and exposure to these must comply with the appropriate limit. Most industrial dusts contain particles of a wide range of sizes. The behaviour, deposition and fate of any particular particle after entry into the human respiratory system and the body response that it elicits, depend on the nature and size of the particle. HSE distinguishes two size fractions for limit-setting purposes termed 'inhalable' and 'respirable'. Inhalable dust approximates to the fraction of airborne material that enters the nose and mouth during breathing and is therefore available for deposition in the respiratory tract. Respirable dust approximates to the fraction that penetrates to the gas exchange region of the lung. Fuller definitions and explanatory material are given in MDHS14/3. Where dusts contain components that have their own assigned WEL, all the relevant limits should be complied with. Where no specific short-term exposure limit is listed, a figure three times the long-term exposure should be used.

acetone 67-64-1 TWA 500 ppm 2000/39/EC
Further information

<table>
<thead>
<tr>
<th>Substance name</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Sampling time</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>2-butoxyethanol</td>
<td>111-76-2</td>
<td>butoxyacetic acid: 240 mmol/mol creatinine (Urine)</td>
<td>Post shift</td>
<td>GB EH40 BAT</td>
</tr>
</tbody>
</table>

**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

**2-butoxyethanol (111-76-2):**
- End Use: Workers
- Exposure routes: Skin contact
- Potential health effects: short term – systemic effects
  - Value: 89 mg/kg
- End Use: Workers
- Exposure routes: Skin contact
- Potential health effects: long term – systemic effects
  - Value: 75 mg/kg
- End Use: Consumers
- Exposure routes: Inhalation
- Potential health effects: short term – local effects
  - Value: 123 mg/m³
- End Use: Consumers
- Exposure routes: Inhalation
- Potential health effects: short term – systemic effects
  - Value: 13.4 mg/kg
- End Use: Consumers
- Exposure routes: Skin contact
- Potential health effects: short term – systemic effects
  - Value: 44.5 mg/kg
- End Use: Consumers
- Exposure routes: Ingestion
- Potential health effects: short term – systemic effects
  - Value: 426 mg/m³
- End Use: Consumers
- Exposure routes: Ingestion
- Potential health effects: long term – systemic effects
  - Value: 3.2 mg/kg
- End Use: Consumers
- Exposure routes: Skin contact
- Potential health effects: long term – systemic effects
  - Value: 38 mg/kg
- End Use: Consumers
- Exposure routes: Inhalation
- Potential health effects: long term – systemic effects
  - Value: 49 mg/m³

**Acetone (67-64-1):**
- End Use: Workers
- Exposure routes: Skin contact
- Potential health effects: long term – systemic effects
  - Value: 123 mg/m³
  - Value: 13.4 mg/kg
SAFETY DATA SHEET
according to Regulation (EC) No. 1907/2006

METALURE A-41014 BG

Version 1.0  Revision Date: 03.07.2015  MSDS Number: 102000023174  Print Date: 19.11.2018  Date of first issue: 03.07.2015

Value: 186 mg/kg
End Use: Workers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 1210 mg/m³
End Use: Consumers
Exposure routes: Ingestion
Potential health effects: long term – systemic effects
Value: 62 mg/kg
End Use: Consumers
Exposure routes: Skin contact
Potential health effects: long term – systemic effects
Value: 62 mg/kg
End Use: Consumers
Exposure routes: Inhalation
Potential health effects: long term – systemic effects
Value: 200 mg/m³

Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

2-butoxyethanol (111-76-2) :
  Fresh water
    Value: 8.8 mg/l
  Fresh water sediment
    Value: 34.6 mg/kg
  Marine water
    Value: 0.88 mg/l
  Marine sediment
    Value: 3.46 mg/kg
  STP
    Value: 463 mg/l

acetone (67-64-1) :
  Soil
    Value: 29.5 mg/kg
  Fresh water
    Value: 10.6 mg/l
  Fresh water sediment
    Value: 30.4 mg/kg
  Marine water
    Value: 1.06 mg/l
  Marine sediment
    Value: 3.04 mg/kg

8.2 Exposure controls

Personal protective equipment

Eye protection : Goggles
  Eye wash bottle with pure water
  Wear face-shield and protective suit for abnormal processing problems.

Hand protection
Material : Solvent-resistant gloves (butyl-rubber)

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
The exact break through time can be obtained from the protective glove producer and this has to be observed. Please observe the instructions regarding permeability and break-through time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Recommended preventive skin protection Skin should be washed after contact. The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Respiratory protection : Use suitable breathing protection if workplace concentration requires.

Environmental exposure controls
Water : The product should not be allowed to enter drains, water courses or the soil.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- **Appearance** : liquid
- **Colour** : silver
- **Odour** : characteristic
- **Odour Threshold** : No data available
- **pH** : No data available
- **Freezing point** : No data available
- **Boiling point/boiling range** : No data available
- **Flash point** : 28 °C

- **Evaporation rate** : No data available
- **Flammability (solid, gas)** : No data available
- **Upper explosion limit** : No data available
- **Lower explosion limit** : No data available
- **Vapour pressure** : No data available
- **Relative vapour density** : No data available
- **Relative density** : No data available
- **Density** : No data available
- **Bulk density** : No data available
- **Water solubility** : No data available
- **Solubility in other solvents** : No data available
- **Partition coefficient: n-octanol/water** : No data available
- **Auto-ignition temperature** : No data available
- **Decomposition temperature** : No data available
- **Viscosity, dynamic** : No data available
- **Viscosity, kinematic** : No data available
- **Flow time** : No data available
**SAFETY DATA SHEET**
according to Regulation (EC) No. 1907/2006

**METALURE A-41014 BG**

<table>
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<tr>
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</tbody>
</table>

Explosive properties: No data available
Oxidizing properties: No data available

**9.2 Other information**
No data available

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**
No decomposition if stored and applied as directed.

**10.2 Chemical stability**
No decomposition if stored and applied as directed.

**10.3 Possibility of hazardous reactions**
- **Hazardous reactions**: Contact with acids and alkalis may release hydrogen.
  
  Stable under recommended storage conditions.

  Vapours may form explosive mixture with air.

**10.4 Conditions to avoid**
- **Conditions to avoid**: Do not allow evaporation to dryness.

  Heat, flames and sparks.

**10.5 Incompatible materials**
- **Materials to avoid**: Acids
  Bases
  Oxidizing agents

**10.6 Hazardous decomposition products**
- **Contact with water or humid air**: This information is not available.

- **Thermal decomposition**: This information is not available.

**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Acute toxicity**

**Product:**
- Acute oral toxicity: Acute toxicity estimate: 571.43 mg/kg
  Method: Calculation method

- Acute inhalation toxicity: Acute toxicity estimate: 12.57 mg/l
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

Acute dermal toxicity: Acute toxicity estimate: 1,257 mg/kg  
Method: Calculation method

Components:

111-76-2:  
Acute oral toxicity: Acute toxicity estimate: 500 mg/kg  
Method: Converted acute toxicity point estimate

Acute dermal toxicity: Acute toxicity estimate: 1,100 mg/kg  
Method: Converted acute toxicity point estimate

Skin corrosion/irritation

Product:  
Remarks: May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation

Product:  
Remarks: May cause irreversible eye damage.

Further information

Product:  
Remarks: Solvents may degrease the skin.

SECTION 12: Ecological information

12.1 Toxicity  
No data available

12.2 Persistence and degradability  
No data available

12.3 Bioaccumulative potential  
No data available

12.4 Mobility in soil  
No data available
12.5 Results of PBT and vPvB assessment

**Product:**
Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher..

12.6 Other adverse effects

**Product:**
Additional ecological information : Remarks: No data available

SECTION 13: Disposal considerations

European Waste Catalogue : 08 01 11 - waste paint and varnish containing organic solvents or other dangerous substances

13.1 Waste treatment methods

**Product**
Do not dispose of waste into sewer.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.

**Contaminated packaging**
Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14: Transport information

14.1 UN number

ADR : UN 1263
IMDG : UN 1263
IATA : UN 1263

14.2 UN proper shipping name

ADR : PAINT
IMDG : PAINT
IATA : Paint

14.3 Transport hazard class(es)

ADR : 3
IMDG : 3
IATA : 3
14.4 Packing group

ADR
Packing group: III
Classification Code: F1
Hazard Identification Number: 30
Labels: 3
Tunnel restriction code: (D/E)

IMDG
Packing group: III
Labels: 3
EmS Code: F-E, S-E

IATA
Packing instruction (cargo aircraft): 366
Packing instruction (passenger aircraft): 355
Packing instruction (LQ): Y344
Packing group: III
Labels: Flammable Liquids

14.5 Environmental hazards

ADR
Environmentally hazardous: no

IMDG
Marine pollutant: no

14.6 Special precautions for user
Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not applicable for product as supplied.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59): Not applicable

15.2 Chemical Safety Assessment
This information is not available.

SECTION 16: Other information

Full text of R-Phrases
R11: Highly flammable.
R20/21/22: Harmful by inhalation, in contact with skin and if swallowed.
R36: Irritating to eyes.
METALURE A-41014 BG

R36/38 : Irritating to eyes and skin.
R66 : Repeated exposure may cause skin dryness or cracking.
R67 : Vapours may cause drowsiness and dizziness.

Full text of H-Statements
H225 : Highly flammable liquid and vapour.
H228 : Flammable solid.
H302 : Harmful if swallowed.
H312 : Harmful in contact with skin.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H332 : Harmful if inhaled.
H336 : May cause drowsiness or dizziness.

Full text of other abbreviations
Acute Tox. : Acute toxicity
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
Flam. Sol. : Flammable solids
Skin Irrit. : Skin irritation
STOT SE : Specific target organ toxicity - single exposure

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

GB / EN