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

1.1 Product identifier

Trade name: C-41 BL-S

Article number: 13245

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

To this day we do not have any information about the identified use at the moment. These data are available we will add these to the safety data sheet.

Application of the substance / the mixture

Photographic activities
Consumer use
Photochemicals
bleach solution
Additive
Colour film photographic processing solution

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier:
Calbe Chemie GmbH
Stadtfeld 31
D-39240 Calbe
Tel.: +49 (0)39291 425-0
Fax: +49 (0)39291 425-25
e-mail: info@calbe-chemie.de
www.calbe-chemie.de

Informing department:
Tel.: +49 (0)39291 42515
E-Mail: kr@calbe-chemie.de

1.4 Emergency telephone number: Tel.: 0700-24112112 (CAL)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008
The product is not classified, according to the CLP regulation.

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 Void

Hazard pictograms Void
Signal word Void
Hazard statements Void

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

(Contd. on page 2)
SECTION 3: Composition/information on ingredients

- 3.2 Mixtures
  - Description: Mixture of the substances listed below with harmless additions.
  - Dangerous components: Void
  - Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

- 4.1 Description of first aid measures
  - General information: Instantly remove any clothing soiled by the product.
  - After inhalation: Supply fresh air.
  - After skin contact: Instantly wash with water and soap and rinse thoroughly.
  - After eye contact: Rinse opened eye for several minutes under running water (> 15 min). Then consult doctor.
  - After swallowing: Rinse out mouth and then drink plenty of water. In case of persistent symptoms consult doctor.

- 4.2 Most important symptoms and effects, both acute and delayed
  No further relevant information available.

- 4.3 Indication of any immediate medical attention and special treatment needed
  No further relevant information available.

SECTION 5: Firefighting measures

- 5.1 Extinguishing media
  - Suitable extinguishing agents: CO2, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam. Use fire fighting measures that suit the environment.
  - For safety reasons unsuitable extinguishing agents: Water with a full water jet.

- 5.2 Special hazards arising from the substance or mixture
  - Can be released in case of fire
  - Carbon monoxide
  - Carbon dioxide
  - Nitrogen oxides (NOx)

- 5.3 Advice for firefighters
  - Protective equipment: Do not inhale explosion gases or combustion gases.
    At formation of toxic gases:
    Put on breathing apparatus.
SECTION 6: Accidental release measures

- **6.1 Personal precautions, protective equipment and emergency procedures**
  Wear protective clothing.
- **6.2 Environmental precautions:** Do not allow to enter drainage system, surface or ground water.
- **6.3 Methods and material for containment and cleaning up:**
  Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
  Dispose of contaminated material as waste according to item 13.
- **6.4 Reference to other sections**
  See Section 8 for information on personal protection equipment.
  See Section 13 for information on disposal.

SECTION 7: Handling and storage

- **7.1 Precautions for safe handling**
  The lists that were valid during the compilation were used as basis.
- **Information about protection against explosions and fires:**
  No special measures required.
  The product is not flammable
- **7.2 Conditions for safe storage, including any incompatibilities**
  **Storage**
  - Requirements to be met by storerooms and containers: No special requirements.
  - Information about storage in one common storage facility:
    Keep away from foodstuffs, beverages and food.
  - Further information about storage conditions: Store in a cool place.
  - Recommended storage temperature: 5-25°C
  - Storage class
    LGK 12
    (German Technical Rule for Hazardous Substance – TRGS 510)
  - **7.3 Specific end use(s)**
    No further relevant information available.

SECTION 8: Exposure controls/personal protection

- **Additional information about design of technical systems:**
  No further data; see section 7.
- **8.1 Control parameters**
  **Components with limit values that require monitoring at the workplace:**
  **Additional information:** The lists that were valid during the compilation were used as basis.
- **8.2 Exposure controls**
  **Personal protective equipment**
  **General protective and hygienic measures**
  The usual precautionary measures should be adhered to general rules for handling chemicals.
  Keep away from foodstuffs, beverages and food.
  Take off immediately all contaminated clothing.
  Wash hands during breaks and at the end of the work.
  Avoid contact with the eyes and skin.
SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties
- General Information
  - Appearance:
    - Form: Fluid
    - Colour: Colourless
    - Odour: Ammonia-like
  - pH-value at 20 °C: 11
  - Change in condition
    - Melting point/freezing point: Not determined
    - Initial boiling point and boiling range: > 100 °C
  - Flash point: Not applicable
  - Ignition temperature: 305 °C
  - Self-inflammability: Product is not selfigniting.
  - Explosive properties: Product is not explosive.
  - Density at 20 °C: 1.1 g/cm³
  - Solubility in / Miscibility with
    - Water: miscible
  - Solvent content:
    - Organic solvents: ~ 77 %
    - Water: ~ 23 %

- 9.2 Other information
  No further relevant information available.

SECTION 10: Stability and reactivity

- 10.1 Reactivity
  No further relevant information available.
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided:
  No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions
  No dangerous reactions known
- 10.4 Conditions to avoid
  No further relevant information available.
Trade name: C-41 BL-S

10.5 Incompatible materials: No further relevant information available.

10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

11.1 Information on toxicological effects

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

LD/LC50 values that are relevant for classification:

<table>
<thead>
<tr>
<th>Substance</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethanolamine</td>
<td>~ 7200 mg/kg (rat)</td>
<td>&gt; 2000 mg/kg (rabbit)</td>
</tr>
</tbody>
</table>

Primary irritant effect:

Skin corrosion/irritation Based on available data, the classification criteria are not met.

Serious eye damage/irritation Mild irritant

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information:
This statement was deduced from the properties of the single components.

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
No known symptoms to date.

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

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

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.

SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:

<table>
<thead>
<tr>
<th>Substance</th>
<th>EC50/24 h</th>
<th>LC50/96 h</th>
</tr>
</thead>
<tbody>
<tr>
<td>Triethanolamine</td>
<td>2038 (Daphnia magna)</td>
<td>11800 mg/l (Pimephales promelas)</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability Not determined

12.3 Bioaccumulative potential Not determined

Behaviour in environmental systems: Not determined

Mobility in soil: No further relevant information available.

Ecotoxicological effects: No further relevant information available.

Behaviour in sewage processing plants: Not determined

Additional ecological information:

General notes:
Water hazard class 1 (German Regulation) (Self-assessment): Weakly water-endangering.
46.1.8.1 At present there are no ecotoxicological assessments. This statement was deduced from the properties of the single components.

12.5 Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods
- Recommendation
  Must not be disposed of together with household garbage. Do not allow product to reach sewage system. Must be specially treated under adherence to official regulations.

European waste catalogue
- 07 01 01* aqueous washing liquids and mother liquors

Uncleaned packagings:
- Recommendation:
  Non contaminated packagings can be used for recycling.
  Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
- Recommended cleaning agent: Water, if necessary with cleaning agent.

SECTION 14: Transport information

14.1 UN-Number
- ADR/RID, ADN, IMDG, IATA Void

14.2 UN proper shipping name
- ADR/RID, ADN, IMDG, IATA Void

14.3 Transport hazard class(es)
- ADR/RID, ADN, IMDG, IATA
  - Class Void

14.4 Packing group
- ADR/RID, IMDG, IATA Void

14.5 Environmental hazards:
- Not applicable.

14.6 Special precautions for user
- Not applicable.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code
- Not applicable.

Transport/Additional information:
- Not dangerous according to the above specifications.
SECTION 15: Regulatory information

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
- National regulations
  
<table>
<thead>
<tr>
<th>Class</th>
<th>Share in %</th>
</tr>
</thead>
<tbody>
<tr>
<td>NK</td>
<td>76.7</td>
</tr>
</tbody>
</table>

- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

- Department issuing data specification sheet:
  Laboratory
  Tel.: +49 (0)39291 425-15

- Abbreviations and acronyms:
  RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
  ICAO: International Civil Aviation Organisation
  ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
  IMDG: International Maritime Code for Dangerous Goods
  IATA: International Air Transport Association
  GHS: Globally Harmonised System of Classification and Labelling of Chemicals
  EINECS: European Inventory of Existing Commercial Chemical Substances
  ELINCS: European List of Notified Chemical Substances
  CAS: Chemical Abstracts Service (division of the American Chemical Society)
  LC50: Lethal concentration, 50 percent
  LD50: Lethal dose, 50 percent
  PBT: Persistent, Bioaccumulative and Toxic
  vPvB: very Persistent and very Bioaccumulative

- Sources
  Internal physical tests, MSDS of the ingredients,
  Information system on hazardous substances of the German Social Accident Insurance (GESTIS-database on hazardous substances), http://www.dguv.de/ifa/en/gestis/stoffdb/index.jsp
  applicable EEC directives:
  - 1907/2006
  - 1272/2008

- * Data compared to the previous version altered.