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

### 1.1 Product identifier

PRETEX

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

**Use of the substance/mixture**

Inapplicable.

### 1.3 Details of the supplier of the safety data sheet

| | |
|---|---|
| Company name: | Arcora International GmbH |
| Street: | Marsstraße 9 |
| Place: | 85609 Aschheim by Munich<br>Germany |
| Tel: | +49 (0)89 / 14 33 29 3-0 |
| Fax: | +49 (0)89 / 14 33 29 3-29 |
| E-Mail: | info@arcora.de |

**1.4 Emergency telephone number** + 49 (0) 89 / 14 33 29 3-10

## SECTION 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]**

Not classified.
Product is not classified as dangerous. in compliance with regulation (EG) 1272/2008 and its amendments.

**Ingredients with no known ecotoxicity**

Percentage of ingredients in the mixture with unknown risk to aquatic life: 8,8%

### 2.2 Label elements

The product is classified as not dangerous according to directive 1999/45/EG and its amendments.

**Hazard statements**

H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

**General:** Read label before use. Keep out of reach of children. If medical advice is needed, have product container or label at hand.

**Prevention:** Not applicable

**Response:** Not applicable

**Storage:** Not applicable

**Disposal:** Not applicable

### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.1 Mixtures

**Hazardous components**

| EG-No. | Chemical name | Quantity |
|---|---|---|
| CAS-No. | | |
| Directory | classification according to regulation (EC) No. 1272/2008 [CLP] | |
| REACH-No. | | |
| 203-905-0 | 2-butoxyethanol | ≥ 1 - < 2 |
| 111-76-2 | | |
| 603-014-00-0 | acute tox. 3, H301; acute tox. 3, H311; acute tox. 2, H330 | |

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

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

**After Inhalation**

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur.

**After Skin contact**

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.

**After Eye contact**

Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.

**Ingestion**

Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.

**Protection of first-aiders**

No action shall be taken involving any personal risk or without suitable training.

### 4.2 Most important symptoms/effects, acute and delayed

Over-exposure signs/symptoms:

| | |
|---|---|
| Inhalation | No specific data. |
| Skin contact | No specific data. |
| Eye contact | No specific data. |
| Ingestion | No specific data. |

### 4.3 Indication of immediate medical attention and special treatment needed, if necessary

Treat symptomatically. Contact poison treatment specialist immediately if large quantities have been ingested or inhaled.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing**

Use an extinguishing agent suitable for the surrounding fire.

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

In a fire or if heated, a pressure increase will occur and the container may burst.

**Hazardous thermal decomposition products:**

Decomposition products may include the following materials:
carbon dioxide, carbon monoxide, sulfur oxides, phosphorus oxides, metal oxide/oxides

### 5.3 Advice for firefighters

**Special protective actions for fire-fighters**

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.

**Special protective equipment for fire-fighters**

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

**For non-emergency personnel**

No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Put on appropriate personal protective equipment.

**For emergency responders**

If specialised clothing is required to deal with the spillage, take note of any information in section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

### 6.2 Environmental precautions

Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

### 6.3 Methods and materials for containment and cleaning up

**Small spill**

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

**Large spill**

Stop leak if without risk. Move containers from spill area. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.

### 6.4 Reference to other sections

See section 1 for emergency contact information.
See section 8 for information on appropriate personal protective equipment.
See section 13 for additional waste treatment information.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

**Protective measures**

Put on appropriate personal protective equipment (see section 8).

**Advice on general occupational hygiene**

Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also section 8 for additional information on hygiene measures.

### 7.2 Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and vessels**

Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

### 7.3 Specific end use(s)

Not available.

## Section 8. Exposure controls/personal protection

## 8.1 Specific end uses

### Occupational exposure limits (TRGS 900)

| Ingredient name | Exposure limits |
|---|---|
| 2-Butoxyethanol | arbejdstilsynet (Denmark, 10/2012). Absorbed through skin.<br>TWA: 20 ppm 8 hours.<br>TWA: 98 mg/m³ 8 hours. |

### Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

## 8.2 Exposure controls

### Appropriate engineering controls

Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

### Hygiene measures

Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

### Eye/face protection

Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with sideshields.

### Hand protection

Chemical-resistant impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary

### Body protection

Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Other skin protection

Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

### Respiratory protection

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

### Environmental exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | liquid |
| Colour: | green |
| Odour: | county fresh |

| | | Test method |
|---|---|---|
| pH-value (at 20 °C): | 9,5-10,5 | |

**Changes in the physical state**

| | |
|---|---|
| Melting point: | approx. 0 °C |
| Initial boiling point and boiling range: | approx. 100 °C |
| Flash point: | Closed cup: > 93,334 °C |

**Flammability**

| | |
|---|---|
| Solid: | not applicable |
| Gas: | not applicable |
| Lower explosion limits: | not determined |
| Upper explosion limits: | not determined |

**Auto-ignition temperature**

| | |
|---|---|
| Solid: | not applicable |
| Gas: | not applicable |
| Decomposition temperature: | not determined |

**Oxidizing properties**

not oxidising.

| | |
|---|---|
| Vapor pressure: | < 4 kPa (bei Raumtemperatur) |
| Density: | 1,06 g/cm³ |
| Water solubility: | not available |

**Solubility in other solvents**

not determined

| | |
|---|---|
| Partition coefficient: | not applicable |
| Dyn. Viscosity (at 25 °C): | not applicable |
| Vapour densitiy: | < 1 |
| Evaporation rate: | not determined |
| VOC-content: | 1,8 % |

### 9.2 Other information

No data available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No specific test data related to reactivity available for this product or its ingredients.

### 10.2 Chemical stability

The product is stable

### 10.3 Possibility of hazardous reactions

Under normal conditions of storage and use, hazardous reactions will not occur.

### 10.4 Conditions to avoid

No specific data.

### 10.5 Incompatible materials

No specific data.

### 10.6 Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

**Acute toxicity**

| CAS-No. | Chemical name | | | | |
|---|---|---|---|---|---|
| | Exposure way | Method | Dose | Species | Source |
| | 2-butoxyethanol | | | | |
| | oral | LD50 | 250 mg/kg | Rat | |
| | dermal | LD50 | 220 mg/kg | Rabbit | |
| | inhalative gas (4 hours) | LC50 | 450 ppm | Rat | |

### Irritation/Corrosion

| Product/ingredient name | Result | Species | Score | Exposure | Obsevation |
|---|---|---|---|---|---|
| 2-butoxyethanol | Eyes - Moderate irritan | Rabbit | - | 24 hours 100 mg | - |
| | Eyes - Severe irritant | Rabbit | - | 100 mg | - |
| | Skin - Mild irritant | Rabbit | - | 500 mg | - |

### Possible acute effects on health

Causes serious eye irritation.
Harmful if inhaled.
Harmful in contact with skin. Causes skin irritation.
Harmful if swallowed.

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

| | |
|---|---|
| Inhalation | No specific data. |
| Skin contact | No specific data |
| Eye contact | No specific data |
| Ingestion | No specific data. |

## SECTION 12: Ecological information

### 12.1 Toxicity

| Product/ingredient name | Result | Species | Exposure |
|---|---|---|---|
| 2-Butoxyethanol | Akut EC50 > 1000 mg/l fresh water | Daphnie - Daphnia magna | 48 hours |
| | Akut LC50 800000 µg/l marine water | crustazeans - crangon crangon | 48 hours |
| | Akut LC50 1250000 µg/l marine water | Fisch - Menidia beryllina | 96 hoours |

### 12.2 Persistence and degradability

Not available

### 12.3 Bioaccumulative potential

| Product/ingredient name | $LogP_{ow}$ | BCF | Potential |
|---|---|---|---|
| 2-Butoxyethanol | 0,81 | - | Low |

### 12.4 Mobility in soil

Not available

### 12.5 Results of PBT and vPvB assessment

Not available

### 12.6 Other adverse effects

No known significant effects or critical hazards.

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

**Product**

The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and nonrecyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.

**Hazardous waste**

According to the actual state of knowledge of the supplier, this product must not be treated as hazardous waste in the sense of EU guideline 91/689/EWG.

**Packaging**

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

**Special precautions**

This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

**14.1 UN-number** No dangerous good in sense of these transport regulations.

**14.2 UN proper shipping name**

**14.3 The transport hazard class**

**14.4 Packing group**

**Other relevant information about land transport**

lapse

**Inland waterways transport (ADN)**

**14.1 UN-number** No dangerous good in sense of these transport regulations.

**14.2 UN proper shipping name**

**14.3 The transport hazard class**

**14.4 Packing group**

**Other relevant information about Inland waterways transport**

lapse

**Marine transport (IMDG)**

**14.1 UN-number** No dangerous good in sense of these transport regulations.

**14.2 UN proper shipping name**

**14.3 The transport hazard class**

**14.4 Packing group**

**Other relevant information about marine transport**

lapse

**Air transport (ICAO)**

**14.1 UN-number** No dangerous good in sense of these transport regulations.

**14.2 UN proper shipping name**

**14.3 The transport hazard class**

**14.4 Packing group**

**Other relevant information about air transport**

lapse

**14.5 Environmental hazards**

no

**14.6 Special precautions for user**

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

**14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

## SECTION 15: Regulatory information

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

**EU regulatory information (EG) No. 1907/2006 (REACH)**

**Annex XIV the list of substances subject to authorisation.**

**Annex XIV**

None of the components are listed.

**Substances of Very High Concern**

None of the components are listed.

**Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles**

Not applicable

**Other EU-Community regulations**

All components are listed or exempted.

## Seveso Directive

This product is controlled under the Seveso Directive.

## National regulations

MAL-code: 0-1

Protection based on MAL: According to the regulations on work involving coded products, the following stipulations apply to the use of personal protective equipment:

**General:** Gloves must be worn for all work that may result in soiling. Apron/ coveralls/protective clothing must be worn when soiling is so great that regular work clothes do not adequately protect skin against contact with the product. A face shield must be worn in work involving spattering if a full mask is not required. In this case, other recommended use of eye protection is not required.

In all spraying operations in which there is return spray, the following must be worn: respiratory protection and arm protectors/apron/coveralls/protective clothing as appropriate or as instructed.

MAL-code: 0-1

Application: Spraying in existing* spray booths if worker is beyond the spray zone.

-Arm protectors must be worn.

Application: Spraying in existing* spray booths, if operator is outside the spray zone.

- Arm protectors and apron must be worn.

Spraying work without atomization in existing* facility of combined cabin-, spray cabin- and spray booths where the operator is inside the spray zone.

- Gas Filter mask must be worn.

During all spraying where atomization occurs in cabins or spray booths where the operater is inside the spray zone and during spraying work outside the closed facility, cabin or booth.

-Air-supplied full mask, coveralls and hood must be worn.

**Drying:** Items for drying/drying ovens that are temporarily placed on such things as rack trolleys, etc. must be equipped with a mechanical exhaust system to prevent fumes from wet items from passing through workers' inhalation zone.

**Polishing:** When polishing treated surfaces, a mask with dust filter must be worn. When machine grinding, eye protection must be worn. Work gloves must always be worn.

**Caution:**
The regulations contain other stipulations in addition to the above.

*See Regulations.

Restrictions on use: Not to be used by professional users below 18 years of age. See the National Working Environment Authorities Executive Order on young people's dangerous work.

### 15.2 Chemical Safety Assessment

This product contains a substance(s) for which a chemical safety assessment is not required because it is below the maximum allowable import threshold under REACH.

## SECTION 16: Other information

### Abbreviations and acronyms

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 Harmonized 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
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Process categories according to ECHA guidance on information requirements and chemical safety assessment, chapter R.12:
PROC 1: Use in closed processes.
PROC 8 Dilution of concentrated products, application of drain cleaners, dosage of textile washing agents.
PROC 10 (Roller application or brushing): Processing without large-scale spraying.
PROC 11 ((Spraying outside industrial settings): Processing with large-scale spraying (e. g. high pressure cleaning, foam gun).
PROC 19 (Hand-mixing with intimate contact): Hand cleaning and disinfection.

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

| | |
|---|---|
| H301 | Toxic if swallowed. |
| H311 | Toxic in contact with skin. |
| H315 | Causes skin irritation. |
| H319 | Causes serious eye irritation. |
| H330 | Fatal if inhaled. |

## 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.