

ACMOS CHEMIE KG according to Regulation (EC) No. 1907/2006

#### **ACMOS 103-30**

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

## **Product identifier**

**ACMOS 103-30** 

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

## Relevant identified uses

Release agent

#### Uses advised against

The product is for industrial and professional use only - no consumer product.

# Details of the supplier of the safety data sheet

Manufacturer

Company name: ACMOS CHEMIE KG
Street: Industriestrasse 49
Place: D-28199 Bremen

Post-office box: 10 10 69

D-28010 Bremen

Telephone: +49 (0)421-5189-0 Telefax: +49 (0)421-511415

e-mail: acmos@acmos.com

Contact person: Mr. Dryhaus Internet: www.acmos.com

Responsible Department: Laboratory (Division : Occupational- / Product security) - See under section 16

Supplier

Company name: ACMOS CHEMIE KG
Street: Industriestrasse 49
Place: D-28199 Bremen

Post-office box: 10 10 69

D-28010 Bremen

Telephone: +49 (0)421-5189-0 Telefax: +49 (0)421-511415

e-mail: acmos@acmos.com

Contact person: Mr. Dryhaus Internet: www.acmos.com

Responsible Department: Laboratory (Division : Occupational- / Product security) - See under section 16

Emergency telephone: +49 (0)551-19240 (Emergency information service / official advisory body:

Giftinformationszentrum Nord, Universität Göttingen, 24 h service)

## **SECTION 2: Hazards identification**

## Classification of the substance or mixture

# Classification according to Directive 67/548/EEC or Directive 1999/45/EC

This preparation is not classified as hazardous according to the new EC-preparation directive 1999/45/EC.

## **Label elements**

## Special labelling of certain mixtures

Safety data sheet available for professional user on request.

# Additional advice on labelling

The product does not need to be labelled in accordance with EC directives or respective national laws.

Preparation Directive 1999/45/EC.



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#### Other hazards

Adverse physicochemical effect(s):

See section 9 for physical and chemical properties.

Adverse human health effect(s) and symptom(s):

See section 11 for toxicological information.

Adverse environmental effect(s):

See section 12 for environmental information.

Other adverse Hazard(s): No special remarkable hazards.

Results of PBT-/vPvB-assesment : See under section 12.

# **SECTION 3: Composition/information on ingredients**

#### **Mixtures**

#### **Chemical characterization**

Solution of active ingredients in mineral oil

## **Hazardous components**

| EC No.           | Chemical name  | Quantity |
|------------------|--|----------|
| CAS No.          | Classification   |          |
| Index No.        | GHS classification   |          |
| REACH No.        |  |          |
| 292-550-5        | amines, C16-18-alkyl   | 1 - 5 %  |
| 90640-32-7       | Xn, Xi, N R38-41-48/22-50  |          |
|                  | Skin Irrit. 2, Eye Dam. 1, STOT RE 2, Aquatic Acute 1; H318 H315 H373 H400 |          |
| 01-2119473799-15 |  |          |
| 200-578-6        | ethanol, ethyl alcohol   | < 1 %    |
| 64-17-5          | F R11  |          |
| 603-002-00-5     | Flam. Liq. 2; H225   |          |

#### **Further Information**

Subdivision of relevant R-, H-, EUH-Phrases in full text (number and wording) see under section 16.

## **SECTION 4: First aid measures**

## **Description of first aid measures**

## **General information**

Take off all contaminated clothing immediately. Wash contaminated clothing before re-use.

If victim has stopped breathing: Artificial respiration and/or oxygen may be necessary.

If victim is unconscious but breathing: Victim to lie down in the recovery position, cover and keep him warm.

If victim is conscious: Move out of dangerous area.

If a person vomits when lying on his back, place him in the recovery position.

Consult a physician if necessary Show this safety data sheet to the doctor in attendance.

Protection of first-aiders:

wear personal protective equipment See under section 8.

Notes to physician:

No hazards which require special first aid measures

#### After inhalation

Move to fresh air.

Consult a physician if necessary

# After contact with skin

Wash off with soap and water.



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Preventive skin protection.

#### After contact with eyes

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If eye irritation persists, consult a specialist.

## After ingestion

Do not induce vomiting. Consult a physician.

Never give anything by mouth to an unconscious person.

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

See under section 11.

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

Treat symptomatically.

# **SECTION 5: Firefighting measures**

## **Extinguishing media**

#### Suitable extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

water spray, sand, foam, dry chemical, carbon dioxide (CO2)

## Extinguishing media which must not be used for safety reasons

Do not use a solid water stream as it may scatter and spread fire.

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

Fire will produce dense black smoke containing hazardous combustion products.

Under conditions giving incomplete combustion, hazardous gases produced may consist of: Carbon monoxide, carbon dioxide (CO2), hydrocarbons, smoke

In principle, fire gasses of organic materials have to be classified as toxic to the respiratory system.

## Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

In the event of fire and/or explosion do not breathe fumes.

Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.

#### Additional information

Usual measures of preventive and averting fire protection.

Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

## **SECTION 6: Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

Avoid contact with skin and eyes. Try to avoid breathing vapours or spray mist.

Keep people away from and upwind of spill/leak.

Prevent further leakage or spillage if safe to do so.

Ensure adequate ventilation.

# For non-emergency personnel:

Walk out of the danger zone and notify trained personnel.

If necessary, wear personal protective equipment. Never enter into a personal risk. See under section 8.

Keep the factory emergency plan and the information chain.

For emergency responders:

The personal protective equipment must be adapted to the situation.

# **Environmental precautions**

Do not flush into surface water or sanitary sewer system.

## Methods and material for containment and cleaning up

Clean-up methods - large spillage: Shovel into suitable container for disposal. Local authorities should be advised if



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significant spillages cannot be contained.

Clean-up methods - small spillage : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Take up mechanically and collect in suitable container for disposal.

## Reference to other sections

Further information see under section 8, 13.

# **SECTION 7: Handling and storage**

## Precautions for safe handling

#### Advice on safe handling

The product should only be used in areas from which all naked lights and other sources of ignition have been excluded. Use only in well-ventilated areas. When using, do not eat, drink or smoke.

# Advice on protection against fire and explosion

The product is flammable but not readily ignited.

Fire-fighting equipment on the basis of class B.

## Further information on handling

Reference on types of contact requiring special precautionary measures :

No special precautions required

## Conditions for safe storage, including any incompatibilities

# Requirements for storage rooms and vessels

Keep container tightly closed in a dry and well-ventilated place.

The valid water and zoning ordinances must be observed.

## Advice on storage compatibility

Stable under recommended storage conditions.

Incompatible with oxidising agents.

## Further information on storage conditions

Indoor stockability in closed unopened original containers: 18 months.

Store at room temperature in the original container.

Keep at temperatures between +10 and +30 °C.

Do not store outside. Avoid heating and direct sunlight.

See also instuctions on the label.

#### Specific end use(s)

Possibilities for substitution and references to less hazardous products :

This product was designed for a special application purpose and optimized appropriately.

In case of questions regarding product and application, please contact our field service in line with customer service or our technical sales department.

Specific regulations of branch industries :

Hazardous substance information systems of professional associations.

# SECTION 8: Exposure controls/personal protection

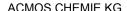
## Control parameters

## **Exposure limits (EH40)**

| CAS No. | Chemical name | ml/m³ | mg/m³ | F/ml | Category      | Origin |
|---------|---------------|-------|-------|------|---------------|--------|
| 64-17-5 | Ethanol       | 1000  | 1920  |      | TWA (8 h)     | WEL    |
|         |               | -     | -     |      | STEL (15 min) | WEL    |

#### Additional advice on limit values

Recommended monitoring and observation processes: None known.



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Control banding for chemicals according to the ILO CHEMICAL CONTROL TOOLKIT (ICCT):

ICCT-Guidelines and - Control Guidance Sheets:

http://www.ilo.org/legacy/english/protection/safework/ctrl banding/toolkit/main guide.pdf

Consider appropriate model solutions according to good engineering practices on designing the working process, if available.

## **Exposure controls**







## Appropriate engineering controls

Design of appropriate work processes and engineering controls and the use of adequate materials (working appliance according to the state of the art, working appliance for prevention of skin contact, models of working times).

References for design of technical equipment: See under section 7.

Execution of collective protection measures at source and appropriate organisational measures (local exhaust ventilation, ventilation by technical means, general ventilation, measures on averting a danger at breakdowns / at emergencies / after accidents, first-aid-measures, manner related measures: operating instruction / instruction of employees).

Provide appropriate exhaust ventilation at machinery. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction.

Execution of individual and personnel protection measures (personal protective equipment - PPE).

# Individual protection measures, such as personal protective equipment

When using, do not eat, drink or smoke. General industrial hygiene practice.

Handle in accordance with good industrial hygiene and safety practice.

#### Respiratory protection

Ensure adequate ventilation, especially in confined areas.

Breath protection at insufficient ventilation or prolonged exposition. Particle filtrating half-face mask FFP2

#### Skin protection

Hand protection:

Use only chemical protective gloves with CE-status of category III in accordance to EN 374. Suitable materials at long term, direct contact (Recommended : Preventive index 6, accordingly > 480 min. permeation time in accordance to EN 374) :

Nitrile rubber / NBR (CAMATRIL VELOURS® - Art. No. 730) - Layer thickness: 0,4 mm

Suitable materials at short term contact or splash (Recommended : Preventive index 3, accordingly > 60 min. permeation time in accordance to EN 374) :

Disposable gloves of special nitrile rubber / NBR (DERMATRIL® P - Art. No. 743) - Layer thickness: 0,2 mm

# Manufacturer:

Kächele-Cama Latex GmbH, Industriepark Röhn, Am Kreuzacker 9, D-36124 Eichenzell, c/o Tony O'Donovan, 2 Wyndham Road, New Waltham, Grimsby, N. E. Lincs, GB-DN36 4WA

Telephone: +44-(0)1472232883, Telefax: +44-(0)1472232883, Internet: http://www.kcl.de, E-Mail: kcl-uk@kcl.de

The statements are based on self-tests, literary reference and information of glove manufacturers or have been derived from similar substances by analogy. Source: CHEMIKALIEN-MANAGER - KCL software for hand protection. It has to be noticed, that daily time of use of chemical protective gloves may be quite shorter in practice because of many factors of influence (e.g. thermal and mechanical stress as well as special conditions on the floor) than the permeation time determined in accordance to EN 374. The respective permeation time doubles/halvens at about 1,5 times larger/lower layer thickness. Declared permeation times according to EN 374 are not carried out under practical conditions. Therefore a maximum wearing time up to 50 % of breakthrough time is recommended. They relate to the pure solvent as mean



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component.

Decrease wearing protection gloves to an inevitable degree to avoid skin rash. Technical and organizational protective actions have to be preferred. Wear under gloves made of cotton as possible. Change preventive gloves once by hour or use special skin-protective preparations for protective gloves carrier, e.g. physioderm® proGlove Before removing gloves clean them with soap and water. Dispose preventive gloves after defect or expiry of wearing time. Check protective gloves to proper condition before usage.

Preventive skin protection.: Draw up skin protection programme. Before starting work, apply solvent-resistant skincare preparations,

e.g. sansibal® / sansibon®, dualin®

Wash hands before breaks and on finishing work,

e.g. ecosan®, topscrub® soft / topscrub® extra / topscrub® nature

After cleansing, apply greasy skincare products,

e.g. physioderm® creme, cura soft® / cUrea soft®

#### Manufacturer:

Peter Greven Physioderm GmbH, Procter-&-Gamble-Str. 26, D-53881 Euskirchen

Telephone: +49-(0)2251 77617-61, Telefax: +49-(0)2251 77617-44, Internet: http://www.physioderm.de, E-Mail:

info@physioderm.de

#### Other:

Skin protection:

lightweight protective clothing (EN 340),

boots (EN 344)

## Eye / face protection

safety glasses with side-shields (EN 166)

# Thermal hazards

No thermal hazards during use of this product.

# **Environmental exposure controls**

Should not be released into the environment. Further information see under section 6.

# **SECTION 9: Physical and chemical properties**

# Information on basic physical and chemical properties

Physical state: paste
Colour: light yellow
Odour: characteristic

Test method

pH-Value: Not applicable

Changes in the physical state

Melting point: not determined

Boiling point: > 300 °C Literary reference

Sublimation point: not determined

Softening point: > 30 °C Literary reference

Flash point: > 100 °C EN ISO 2719

**Explosive properties** 

Not applicable

Lower explosion limits: --Upper explosion limits: ---



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Ignition temperature: > 250 °C Literary reference

**Oxidizing properties** 

Not applicable

Vapour pressure: < 20 hPa Literary reference

(at 20 °C)

Vapour pressure: < 100 hPa Literary reference

(at 50 °C)

Density (at 20 °C): 0,9 g/cm³ DIN 51757

Water solubility: < 0,1 g/L Literary reference

(at 20 °C)

Partition coefficient:

Viscosity / dynamic:

Viscosity / kinematic:

Not applicable (Preparation)

Not applicable

Not applicable

Flow time: > 100 s 3 EN ISO 2431

(at 23 °C)

Vapour density:not determinedEvaporation rate:Not applicableSolvent separation test:Not applicableSolvent content:Not applicable

Other information

Odor threshold : no data available

# **SECTION 10: Stability and reactivity**

# Reactivity

No decomposition if stored and applied as directed.

## **Chemical stability**

Stable at normal conditions

# Possibility of hazardous reactions

Exothermic reaction: See under section 10.5.

## **Conditions to avoid**

none under normal use

Further information see under section 7.

## **Incompatible materials**

oxidising agents

## Hazardous decomposition products

No decomposition if stored and applied as directed.

Under fire conditions: See under section 5.

# **SECTION 11: Toxicological information**

#### Information on toxicological effects

## Toxicocinetics, metabolism and distribution

No toxical dates available. Not proofed preparation.

The product was classified according to the conventionally method (based on the calculation procedure of the new EC-preparation directive 1999/45/EC).

Information on likely routes of exposure /

Symptoms related to the physical, chemical and toxicological characteristics :



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#### After ingestion:

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.

Due to the viscosity, this product does not present an aspiration hazard.

#### After inhalation:

Inhalation of vapours in high concentration may cause irritation of respiratory system.

#### After skin contact

May cause skin irritation in susceptible persons. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

# After eye contact:

Contact with eyes may cause irritation.

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

Not relevant / no data available

#### Interactive effects:

Not relevant / no data available

#### Absence of specific data:

No data is available on the product itself. Description of possible hazardous to health effects is based on experience and/or toxicological characteristics of several components.

Based on manufacturer datas of the main components the acute toxixity, the skin irritation, the mucous membrane irritation and the mutagenic potential of the preparation were evaluated. However, some datas are not complete regarding particular main components. Nevertheless according to the experience of the manufacturer there are no other hazards expected then those which are already mentioned on the label.

#### Mixture versus substance information:

Not relevant / no data available

## **Acute toxicity**

The following informations are derived from the properties of the individual components.

LD50/oral/rat = > 2000 mg/kg

LD50/dermal/rabbit = > 2000 mg/kg

LC50/inhalation/4h/rat = > 20 mg/l

| CAS No.    | Chemical name             |                   |         |   |  |  |  |
|------------|---------------------------|-------------------|---------|---|--|--|--|
|            | Exposure routes           | Method Dose       | Species | h |  |  |  |
| 90640-32-7 | amines, C16-18-alkyl      |                   |         |   |  |  |  |
|            | Acute oral toxicity       | LD50 > 2000 mg/kg | rat     |   |  |  |  |
|            | Acute dermal toxicity     | LD50 > 2000 mg/kg |         |   |  |  |  |
| 64-17-5    | ethanol, ethyl alcohol    |                   |         |   |  |  |  |
|            | Acute oral toxicity       | LD50 6200 mg/kg   | rat     |   |  |  |  |
|            | Acute dermal toxicity     | LD50 20000 mg/kg  | rabbit  |   |  |  |  |
|            | Acute inhalation toxicity | LC50 95,6 mg/l    | rat     | 4 |  |  |  |

## Irritation and corrosivity

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

## Sensitizing effects

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

# Severe effects after repeated or prolonged exposure

Subacute to chronical toxicity:



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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

# Other information

no data available

# **SECTION 12: Ecological information**

#### **Toxicity**

No ecotoxical dates available. Not proofed preparation.

The product was classified according to the conventionally method (based on the calculation procedure of the new EC-preparation directive 1999/45/EC).

Aquatic toxicity (Fish toxicity, Algae toxicity, Daphnia toxicity):

The following informations are derived from the properties of the individual components.

LC50/96h/guppy = 10 mg/l < LC50 < 100 mg/l EC50/72h/algae = 10 mg/l < EC50 < 100 mg/l EC50/48h/daphnia = 10 mg/l < EC50 < 100 mg/l

Terrestric toxicity (Bird toxicity, Beneficial insect, Rainworm toxicity): no data available

Plant toxicity: no data available

Behaviour in waste water treatment plants : no data available

| CAS No.    | Chemical name            |        |            |  |                         |    |  |
|------------|--------------------------|--------|------------|--|-------------------------|----|--|
|            | Aquatic toxicity         | Method | Dose       |  | Species                 | h  |  |
| 90640-32-7 | amines, C16-18-alkyl     |        |            |  |                         |    |  |
|            | Acute fish toxicity      | LC50   | 0,88 mg/l  |  | Brachydanio rerio       | 96 |  |
|            | Acute algae toxicity     | ErC50  | 0,12 mg/l  |  | Scenedesmus subspicatus | 72 |  |
|            | Acute crustacea toxicity | EC50   | 0,13 mg/l  |  | Daphnia magna           | 48 |  |
| 64-17-5    | ethanol, ethyl alcohol   |        |            |  |                         |    |  |
|            | Acute fish toxicity      | LC50   | 10000 mg/l |  | Alburnus alburnus       | 96 |  |
|            | Acute crustacea toxicity | EC50   | 9268 mg/l  |  | Daphnia magna           | 48 |  |

# Persistence and degradability

Abbiotic degradation (Hydrolysis, Photolysis): no data available Physicochemical elimination (Oxidation, Hydrolysis): no data available Photochemical elimination (Photooxidation): no data available

Biodegradation: no data available

# Bioaccumulative potential

Partition coefficient n-octanol /water (log Pow) : Not applicable (Preparation)

Bioconcentration factor (BCF): Not applicable (Preparation)

#### Partition coefficient n-octanol/water

| CAS No.    | Chemical name          | Log Pow |
|------------|------------------------|---------|
| 90640-32-7 | amines, C16-18-alkyl   | 7,6     |
| 64-17-5    | ethanol, ethyl alcohol | -0,3    |

## Mobility in soil

Surface tension : no data available

Transport soil-water (Adsorption coefficient) : no data available Transport water-air (volatility rate, Henry-constant) : no data available

Transport soil-air (volatility rate): no data available

## Results of PBT and vPvB assessment

no data available

Revision no.: 1,13 GB - EN Revision date: 30.11.2010



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#### Other adverse effects

Ozone depletion potential (ODP): no data available

Photochemical ozone building potential (OBP): no data available

Global warming potential (GWP): no data available

Product does not contain any organic halogens. (AOX)

## **SECTION 13: Disposal considerations**

## Waste treatment methods

#### Advice on disposal

Disposal according to offical regulations. Do not flush into surface water or sanitary sewer system. Do not dispose of waste into sewer. May not be disposed or deposited together with domestic garbage. Pack product waste or close and label uncleaned empty packages in respect to the local and official regulations and supply to an appropriate way of disposal.

The relation of waste-codes according to EWC has to be realized by branch and process. The waste producer is resposible for correct coding and designation of his wastes. For small amounts (< 20 kg/L) contact next special waste counter or a mobile service for harmful substances. Before discharge in public drains (e.g. residues of washing- and rinsing liquids) please observe the relevant regulations. In case of further questions please contact your waste- or environmental representative or the responsible authority.

List of proposed waste codes / waste designations in accordance with EWC:

#### Waste disposal number of waste from residues/unused products

120107

WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions)

Classified as hazardous waste.

## Waste disposal number of used product

120107

WASTES FROM SHAPING AND PHYSICAL AND MECHANICAL SURFACE TREATMENT OF METALS AND PLASTICS; wastes from shaping and physical and mechanical surface treatment of metals and plastics; mineral-based machining oils free of halogens (except emulsions and solutions) Classified as hazardous waste.

#### Waste disposal number of contaminated packaging

150106

WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); mixed packaging

## Contaminated packaging

Contaminated packages must be completely emptied and may be reused after proper cleaning. Dipose of packages that cannot be cleaned like the product. Cleaning by recycling company.

Offer rinsed packaging material to local recycling facilities.

Recommended cleansing agent : Clean with detergents. Avoid solvents. Dispose of rinse water as waste water. Do not contaminate water.

# **SECTION 14: Transport information**

## Land transport (ADR/RID)

## Other applicable information (land transport)

Not classified as dangerous in the meaning of transport regulations.

#### Marine transport

#### Other applicable information (marine transport)

Not classified as dangerous in the meaning of transport regulations.

#### Air transport



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#### Other applicable information (air transport)

Not classified as dangerous in the meaning of transport regulations.

## **SECTION 15: Regulatory information**

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

#### **EU** regulatory information

1999/13/EC (VOC): Content of volatile organic compounds (VOC) = 0 % w/w.

VOC-value (25 °C) = 0 g/L.

#### **Additional information**

Regulation (EC) No 2037/2000 - Substances that deplete the ozone layer: Not applicable

Regulation (EC) No 648/2004 and No 907/2006 - Detergents: Not applicable Regulation (EC) No 850/2004 - Persistent organic pollutants : Not applicable

Regulation (EC) No 689/2008 - Export and import of dangerous chemicals: Not applicable

Regulation (EC) No 552/2009 - Restriction of chemicals (REACH) as regards annex XVII: Not applicable

Authorisation of Chemicals (REACH) as regards Annex XIV: Not applicable

Directive 2004/42/EC - Use of organic solvents in certain paints and lacquers: Not applicable

Directive 96/82/EC - Control of major accident hazards involving dangerous substances (Seveso II), as last amended by

Directive 2003/105/EC: Not applicable

EC-Chemical inventories: All ingredients are listed in EINECS / ELINCS or excepted from listing.

A chemical safety assessment (CSA) has been carried out on following substance(s):

amines, C16-18-alkyl, EC-No.: 292-550-5

#### **National regulatory information**

Water contaminating class (D): 1 - slightly water contaminating

# **Additional information**

International chemical inventories (Registration status on substances): no data available

European product inventories (Registration status on preparations):

Istituto Superiore di Sanità / Archivio Preparati Pericolosi - ISS (http://www.preparatipericolosi.iss.it/iss/index.phtml):

This product was not registered.

Kemikalieinspektionen / Produktregistret / Swedish Chemicals Inspectorate - Keml

(http://apps.kemi.se/nclass/default.asp):

This product was not registered.

Schweizerische Eidgenossenschaft - Bundesamt für Gesundheit - BAG (http://www.bag.admin.ch) / Informationssystem

für gefährliche und umweltrelevante Stoffe - IGS (http://igs.naz.ch/index.html):

This product was registered.

## **SECTION 16: Other information**

# Changes

This version replaces all former issues.

Changes made in this revision see section: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16.

## Disclaimer:

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release The receiver of our product is singulary responsible for adhering to existing laws and regulations. All descriptions are approximate values, they are not specified for construction of specifications. This safety data sheet does not represent any operating instruction according to national chemical



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regulations. It may be used for creation, but must not replace it. The employer is not relieved from his duties. All technical information to occupational protection are directed predominately to experts first (safety engineers, occupational medicines).

#### Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

EC50: Effective concentration, 50 percent.

EC: European community.

EINECS: European Inventory of Existing Commercial Chemical Substances.

ELINCS: European List of Notified Chemical Substances.

EN: European standard.

FDA: US-Food and Drug Administration.

ISO: A standard of International Standards Organisation.

LC50: Lethal concentration, 50 percent.

LD50: Lethal Dose, 50 percent.

log Kow (Pow): octanol-water partition coefficient.

PBT: Persistent, bioaccumulabe and toxic.

RID: Regulations concerning the International Carriage of Dangerous Goods by Rail.

vPvB: Very persistent and very bioaccumulable.

# Full text of R-phrases referred to under sections 2 and 3

Highly flammable.Irritating to skin.

41 Risk of serious damage to eyes.

48/22 Harmful: danger of serious damage to health by prolonged exposure if swallowed.

Very toxic to aquatic organisms.

# Full text of H-Statements referred to under sections 2 and 3

H225 Highly flammable liquid and vapour.

H315 Causes skin irritation.
H318 Causes serious eve damage.

11070 May says a demand to arrows through

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

#### **Further Information**

Full text of all R-phrases which are referred to in section 2 and 3 of this safety data sheet - see previous list. These (this) R-phrases/R-phrases apply/applies to the substance(s) of content, however, it does not necessarily show the classification of the product.

# Training references:

Yearly briefing and instruction of employees by means of operating instructions according to article 8 of EC-directive 98/24/EC.

# Recommended restriction of application :

For more reference to application see separate product information. Please refer to our internet website for more information.

Sources of most important data used for creation of the data sheet :

The classification corresponds to current EC-lists, but is completed by statements of technical literature and company data. Other public accessible sources :

Regulation (EC) No. 1907/2006 (REACH) in the valid version in each case

Regulation (EC) No. 1272/2008 (CLP) in the valid version in each case

Substance Directive 67/548/EEC in the valid version in each case

Preparation Directive 1999/45/EC in the valid version in each case

European Agency for Safety and Health at Work - national air treshold values from european member states - EH 40 (http://osha.europa.eu/good practice/topics/dangerous substances/oel/members.stm)

European Chemical Substances Information System - ESIS (http://ecb.jrc.ec.europa.eu/esis)

MERCK Chemical Databases - MERCK Chemicals (http://www.merck-chemicals.com)

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according to Regulation (EC) No. 1907/2006

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Further information and practical guides on the internet :

European Chemicals Agency - ECHA (http://ec.europa.eu/echa)

The access to European Union law - EUR-Lex (http://eur-lex.europa.eu)

Control of Substances Hazardous to Health Regulations - COSHH (http://www.coshh-essentials.org.uk/Home.asp)

Pollution Prevention and Control Act and Pollution Prevention and Control Regulations

Health and Safety Executive - HSE - Leaflets for Chemicals (http://www.hse.gov.uk/pubns/chindex.htm)

Inquiry office: Laboratory (Division: Occupational-/Product security)

Contact person: Mr. Dryhaus (Telephone: +49-421-5189-0, Telefax: +49-421-5189-871)

Office hours: Mo - Th from 7.30 - 16.15 h and Fr from 7.30 - 13.30 h. Out of office hours no call diversion.