

Safety data sheet

according to Regulation (EC) No. 1907/2006

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Printing date: 25.03.2020
 Revision: 25.03.2020
 Version number: 2.00

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

· **1.1 Product identifier**

· **Trade name:** *Floor Tile Soap Clean & Care*

· **Assortment:** CLASSIC

· **Article number:** 2001000042

· **EAN-Code:** 4004666000042

· **Type of packaging:** 1 l oblong HD-PE-bottle with childresistant closure (certified according to ISO 8317)

· **Registration number**

This product is a mixture. REACH registration number see section 3.

All ingredients of this mixture are (pre)registered according to REACH regulation.

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

· **Application of the substance / the mixture** Maintenance cleaner. Intended for general public.

· **Uses advised against** No relevant information available.

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

· **Manufacturer/Supplier:**

MELLERUD CHEMIE GmbH

Bernhard-Röttgen-Waldweg 20

41379 Brüggen

Germany

Phone: +49 (0)2163 / 950 90 - 0

Fax: +49 (0)2163 / 950 90 - 227

E-mail: service@mellerud.de

www.mellerud.de

· **Informing department:**

Department Regulatory Affairs

e-mail: labor@mellerud.de

· **1.4 Emergency telephone number:**

· **Advisory office in case of poisoning:**

Poison Emergency Call Berlin (24 h)

Phone: + 49 (0)30/30686700

SECTION 2: Hazards identification

· **2.1 Classification of the substance or mixture**

· **Classification according to Regulation (EC) No 1272/2008**

This mixture does not meet the criteria for classification in accordance with Regulation No 1272/2008/EC.

· **2.2 Label elements**

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

· **Hazard pictograms** Void

· **Signal word** Void

· **Hazard statements** Void

· **Additional information:**



Keep away from children.

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· **2.3 Other hazards** None, if used properly.

· **Results of PBT and vPvB assessment**

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· **3.1 Substances** This product is a mixture.

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· **3.2 Mixtures**

· **Description:** Waterbased mixture

· Dangerous components:		
CAS: 143-18-0 EINECS: 205-590-5	9-Octadecenoic acid (Z)-, potassium salt Aquatic Acute 1, H400 Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	2.5-<5%
CAS: 68891-38-3 NLP: 500-234-8 Reg.nr.: 01-2119488639-16-XXXX	Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE) Eye Dam. 1, H318 Skin Irrit. 2, H315 Aquatic Chronic 3, H412 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 5 % ≤ C < 10 %	2.5-<5%

· **SVHC**

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).

· **Regulation (EC) No 648/2004 on detergents / Labelling for contents**

soap, anionic surfactants, non-ionic surfactants	<5%
preservation agents (PHENOXYETHANOL, SODIUM PYRITHIONE, SODIUM BENZOATE, 2-BROMO-2-NITROPROPANE-1,3-DIOL), perfumes (D-LIMONENE)	

· **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** No special measures required.

· **After inhalation**

Supply fresh air.

Seek medical treatment in case of complaints.

· **After skin contact** Rinse skin with water/shower.

· **After eye contact**

Remove contact lenses, if present and easy to do.

Rinse opened eye for at least 10 minutes under running water. If symptoms persist, consult doctor.

If eye irritation persists: Get medical advice/attention.

· **After swallowing** Immediately make victim drink water (two glasses at most). Consult a physician.

· **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**

Treat symptomatically and directed to relieving any effects.

SECTION 5: Firefighting measures

· **5.1 Extinguishing media**

· **Suitable extinguishing agents**

Water spray jet (if possible, avoid full jet). Adapt the fire-fighting measures to the environmental conditions. Commercially available extinguishers are suitable for fighting incipient fires. The product itself does not burn.

· **For safety reasons unsuitable extinguishing agents** For this mixture no limitations of extinguishing agents are given.

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

Can be released in case of fire:

Carbon monoxide (CO) and Carbon dioxide (CO₂)

Nitrogen oxides (NO_x)

Sulphur dioxide (SO₂)

· **5.3 Advice for firefighters**

· **Protective equipment:**

Wear a self-contained breathing apparatus.

Do not inhale explosion gases or combustion gases.

· **Additional information** No relevant information available.

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SECTION 6: Accidental release measures

· **6.1 Personal precautions, protective equipment and emergency procedures**

For non emergency personnel: Avoid contact with skin, eyes and clothing. Isolate hazard area and deny entry to unnecessary or unprotected personnel.

For emergency responders: Wear protective clothing. See Chapter 8

· **6.2 Environmental precautions:**

Inform authorities if large amounts are released.

Do not allow to enter into surface water or drains.

· **6.3 Methods and material for containment and cleaning up:**

Slip danger in case of leaking product.

Dilute product with plenty of water and rinse away.

Wipe up with absorbent material (e.g. cloth, fleece, sand, diatomite, acid binders, universal binders).

· **6.4 Reference to other sections**

See section 7 for information on safe handling.

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** Observe label precautions.

· **Information about protection against explosions and fires:**

No special measures required.

The product is not flammable.

· **Advices on general occupational hygiene**

Be sure to clean skin thoroughly after work and before breaks.

Use skin protection cream for preventive skin protection.

Avoid close or long term contact with the skin.

· **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:** Not required.

· **Further information about storage conditions:** None.

· **Recommended storage temperature:** +5 °C up to +40 °C

· **Storage class** Storage class 12: Non-combustible liquids that cannot be assigned to any of the above storage classes

· **7.3 Specific end use(s)**

See section 1.2

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SECTION 8: Exposure controls/personal protection

· **8.1 Control parameters**

· **8.1.1 Components with critical values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

· **8.1.2 DNELs**

· **Workers**

CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)

DNEL Acute – inhalation, systemic effects	175 mg/m ³
DNEL Long-term – dermal, systemic effects	2,750 mg/kg-bw/day
DNEL Long-term – inhalation, systemic effects	175 mg/m ³

· **General public**

CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)

DNEL Langzeit – dermal, systemische Effekte	2,750 mg/kg-bw/day
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· 8.1.3 PNECs

CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)

PNEC aquatic, freshwater	0.24 mg/l
PNEC sewage treatment plant	10,000 mg/l
PNEC sediment, freshwater	5.45 mg/kg dw
PNEC sediment, marine water	0.545 mg/kg dw
PNEC aquatic, marine water	0.024 mg/l
PNEC soil	0.946 mg/kg soil dw

· 8.1.4 Ingredients with biological limit values: No data available.

· Additional information: The lists that were valid during the compilation were used as basis.

· 8.2 Exposure controls

· 8.2.1 Engineering Controls: See section 7. No additional measures necessary.

· 8.2.2 Personal protective equipment

For special purposes, it is recommended to check the resistance to chemicals of the protective clothing/gloves mentioned below together with the supplier of the PPE.

· Breathing equipment: With correct and proper use, and under normal conditions, breathing protection is not required.

· Protection of hands:

· Full contact:

Material: Nitrile rubber
 Minimum layer thickness: ≥ 0,11 mm
 Break through time: 480 min
 Material tested: Dermatril® L KCL 741

· Splash contact:

Material: Nitrile rubber
 Minimum layer thickness: ≥ 0,11 mm
 Break through time: 480 min
 Material tested: Dermatril® L KCL 741

· Penetration time of glove material

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

This recommendation applies only to the product stated in the safety data sheet <(>,<>) supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

· Eye protection:

Safety glasses are not normally required. However, their use is recommended in those cases where splashes may occur when handling the product.

Tightly sealed safety glasses according to EN166.

· Body protection:

Not required at determined application.

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

· 8.2.3 Limitation and supervision of exposure into the environment See sections 6 and 7.

· Risk management measures No further relevant information available.

SECTION 9: Physical and chemical properties

· 9.1 Information on basic physical and chemical properties

· General Information

· 9.1.1 Appearance:

Form:	Fluid
Colour:	Blue
Smell:	Fruit-like
Odour threshold:	No data available.

· 9.1.2 Safety relevant basic data:

pH-value at 20 °C:	9.5 - 10.5 (DIN 19268)
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· Change in condition	
· Melting point/freezing point:	No data available.
· Initial boiling point and boiling range:	≥100 °C
· Flash point:	Not applicable
· Inflammability (solid, gaseous)	No data available / Not applicable
· Ignition temperature:	Not relevant.
· Decomposition temperature:	No data available / Not applicable
· Self-inflammability:	Product is not selfigniting.
· Explosive properties:	Product is not explosive.
· Critical values for explosion:	
Lower:	No data available / Not applicable
Upper:	No data available.
· Oxidising properties	Not oxidizing.
· Steam pressure at 20 °C:	≤23 hPa (CAS: 7732-18-5 H ₂ O)
· Density at 20 °C	~1010 kg/m ³ (ISO 387)
· Relative density at 20 °C	~1.01 (ISO 15212-1)
· Vapour density	No data available / Not applicable
· Evaporation rate	No data available / Not applicable
· Solubility in / Miscibility with Water:	Fully miscible
· Partition coefficient: n-octanol/water:	No data available / Not applicable
· Viscosity:	
dynamic:	Not applicable.
kinematic at 20 °C:	16 s (ISO 4 mm)
· Surface tension:	No data available / Not applicable
· 9.1.3 Data relevant with regard to physical hazard classes (supplemental)	
· Corrosiveness to metals Conclusion/Classification	Based on available data, the classification criteria are not met.
· 9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

- **10.1 Reactivity** See section 10.3.
- **10.2 Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions** No dangerous reactions known
- **10.4 Conditions to avoid** No further relevant information available.
- **10.5 Incompatible materials:** No further relevant information available.
- **10.6 Hazardous decomposition products:** Decomposition products in case of fire: see section 5.

SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity** The mixture is classified based on calculation method referring to the classified substances present in the mixture.

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· Hazardous substances:

· Experimental/calculated data:

CAS: 143-18-0 9-Octadecenoic acid (Z)-, potassium salt

Acute oral toxicity	LD50	>5,000 mg/kg bw (rat)
Acute dermal toxicity	LD50	>2,000 mg/kg bw (rabbit)
Acute inhalation toxicity	No study available	

CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)

Acute oral toxicity	LD50	2,870 mg/kg bw (rat) (OECD 401)
Acute dermal toxicity	LD50	>2,000 mg/kg bw (rat) (OECD402)
Acute inhalation toxicity	No study available	(study scientifically not necessary)

· Product/Mixture:

· Acute toxicity estimate (ATE(MIX)) - Calculation method:

Acute oral toxicity	- (Not relevant)
Acute dermal toxicity	- (Not relevant)
Acute inhalation toxicity	- (Not relevant)

· Classification:

No acute toxicity	(Classification criteria not met)
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· Skin corrosion/irritation

· Hazardous substances:

· Experimental/calculated data:

CAS: 143-18-0 9-Octadecenoic acid (Z)-, potassium salt

Result/evaluation:	Skin irritation, Category 2 (rabbit) (OECD404)
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CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)

Result/evaluation:	Irritant (rabbit) (OECD404)
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· Product/Mixture:

· Classification:

Not classified as Skin corrosive/irritant	(Classification criteria not met) (Additivity principle)
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· Serious eye damage/irritation

· Hazardous substances:

· Experimental/calculated data:

CAS: 143-18-0 9-Octadecenoic acid (Z)-, potassium salt

Result/evaluation:	Eye irritation, Category 2 (rabbit)
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CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)

Result/evaluation:	Causes serious eye damage (rabbit) (OECD 405)
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· Product/Mixture:

· Classification:

Not classified as damaging/irritant to eyes	(Classification criteria not met) (Additivity principle)
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· Respiratory or skin sensitisation

· Hazardous substances:

· Experimental/calculated data:

CAS: 143-18-0 9-Octadecenoic acid (Z)-, potassium salt

Result/evaluation:	Does not cause skin sensitisation (guinea pig) (OECD406)
	Does not cause respiratory sensitization (Not classified (data lacking))

CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)

Result/evaluation:	Does not cause skin sensitisation (guinea pig) (OECD406)
	Does not cause respiratory sensitization (Not relevant)

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· Product/Mixture:

· Classification:

Not classified as sensitizing (Classification criteria not met) (assessment based on ingredients)

· Experience with human exposure: No data available.

· CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)

· Germ cell mutagenicity

Product/Mixture:

Classification:

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

· Carcinogenicity

Product/Mixture:

Classification:

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

· Reproductive toxicity

Product/Mixture:

Classification:

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

· STOT-single exposure

Product/Mixture:

Classification:

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

· STOT-repeated exposure

Product/Mixture:

Classification:

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

· Aspiration hazard

Product/Mixture:

Classification:

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

SECTION 12: Ecological information

· 12.1 Toxicity

The ecotoxicological properties of this mixture are determined by the ecotoxicological properties of the single components (see section 3).

· Aquatic toxicity:

· Hazardous substances:

· Experimental/calculated data:

CAS: 143-18-0 9-Octadecenoic acid (Z)-, potassium salt

EC50/48 h 0.57 mg/l (Daphnia magna (water flea))

CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)

NOEC/21d 0.27 mg/l (Daphnia magna (water flea)) (OECD 211)

NOEC 0.1–1 mg/l (fish)

NOEC/72h 0.93 mg/l (algae) (OECD 201)

EC50/48 h 7.4 mg/l (Daphnia magna (water flea)) (OECD 202)

EC50/72 h 27.7 mg/l (Desmodesmus subspicatus (algae)) (OECD 201)

LC50/96 h 7.1 mg/l (fish) (OECD 203)

· Product/Mixture:

· Classification:

Not classified as hazardous to the environment (Classification criteria not met) (Additivity principle)

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· 12.2 Persistence and degradability

· Hazardous substances:

CAS: 143-18-0 9-Octadecenoic acid (Z)-, potassium salt

Persistence	(No data available)
Biodegradability	(No data available)
CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)	
Persistence	(No data available)
Biodegradability	100 % (28 d) (EU Method C.4-C)

· Product/Mixture:

· Result / evaluation:

The product is easily biodegradable.

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the member states and will be made available to them, at their direct request or at the request of a detergent manufacturer.

· 12.3 Bioaccumulative potential

· Hazardous substances:

CAS: 143-18-0 9-Octadecenoic acid (Z)-, potassium salt

Bioaccumulative potential	(No data available)
CAS: 68891-38-3 Alcohols, C12-14, ethoxylated, sulfates, sodium salts (SODIUM LAURETH SULFATE)	
log Pow	0.6 (BCF)

· Product/Mixture:

· Result / evaluation:

Bioaccumulation is not expected.

Does not accumulate in organisms

· 12.4 Mobility in soil Remarks: No data available

· Ecotoxicological effects:

· Behaviour in sewage processing plants: Remarks: No data available

· Respiratory inhibition of communal activated sludge EC 20 (mg/l according to ISO 8192 B): Remarks: No data available

· Additional ecological information:

· General notes:

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

Water hazard class 1 (Self-assessment): slightly hazardous for water.

· 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

· 13.1.1 Appropriate disposal / Product/Mixture:

Recommendation:

Small amounts may be diluted with plenty of water and washed away. Dispose of bigger amounts in accordance with local authority requirements.

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

07 00 00	WASTES FROM ORGANIC CHEMICAL PROCESSES
07 06 00	wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics
07 06 01*	aqueous washing liquids and mother liquors
20 00 00	MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS

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20 01 00	separately collected fractions (except 15 01)
20 01 29*	detergents containing hazardous substances
15 00 00	WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED
15 01 00	packaging (including separately collected municipal packaging waste)
15 01 10*	packaging containing residues of or contaminated by hazardous substances

- **13.1.2 Appropriate disposal / Package:**
- **13.1.2 Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.
- **Recommended cleaning agent:** Use water, if necessary with cleaning agent.

SECTION 14: Transport information

· UN-Number	Void
· ADR/RID/ADN, ADN, IMDG, IATA	Void
· 14.2 UN proper shipping name	
· ADR/RID/ADN, ADN, IMDG, IATA	Void
· 14.3 Transport hazard class(es)	
· ADR/RID/ADN, ADN, IMDG, IATA	Void
· Class	Void
· 14.4 Packing group	
· ADR/RID/ADN, 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.	
· UN "Model Regulation":	
· Void	

SECTION 15: Regulatory information

- **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **European Regulations and Directives:**
 - Directive 2010/75/EU on industrial emissions: 7.3 g/l
 - Directive 2004/42/EC on the limitation of emissions of volatile organic compounds: Not regulated.
 - Regulation (EU) No 98/2013 on the marketing and use of explosives precursors: Not regulated.
 - Regulation (EU) No. 528/2012 on biocides: This product does not fall within the scope of the Biocidal Products Regulation (BPR).
 - Regulation (EU) No 649/2012 Not regulated.

- **National regulations**

Observe in addition any national regulations!

Law for Detergents and Cleaning Products in German Federal Legislation (Wasch- und Reinigungsmittelgesetz, WRMG)

- **Ordinance on Hazardous Substances (12. BlmSchV):** Not subject to StörfallVO.

- **Solvents Regulation (31st BlmSchV):** See information on Directive 2010/75/EU.

- **Water hazard class:** Water hazard class 1 (Self-assessment): slightly hazardous for water.

- **15.2 Chemical safety assessment:**

For the following substances of this mixture a chemical safety assessment has been carried out:

Alcohols, C12-14, ethoxylated, sulfates, sodium salts

SECTION 16: Other information

- **16.1 Indication of changes:** The safety data sheet were checked/revised.

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· 16.2 Relevant R-, H- and EUH-phrases (number and full text):

H315 Causes skin irritation.
 H318 Causes serious eye damage.
 H319 Causes serious eye irritation.
 H335 May cause respiratory irritation.
 H400 Very toxic to aquatic life.
 H412 Harmful to aquatic life with long lasting effects.

· 16.3 Training hints

Provide adequate information, instruction and training for operators.
 Please refer to our internet website for more information: www.mellerud.de

· 16.4 Sources of key data used to compile the data sheet:

Data arise from reference works and literature.
 Raw material SDS
 CEFIC ERICards Database (<http://www.ericards.net>)
 TOXNET (<http://toxnet.nlm.nih.gov/index.html>)
 International Chemical Safety Cards (ICSC) (<http://www.ilo.org/dyn/icsc/showcard.home>)
 CheLIST (<http://chelis.jrc.ec.europa.eu/>)
 Classification & labelling inventory of ECHA (http://echa.europa.eu/clp/c_l_inventory_en.asp)
 eChemPortal (http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en)
 GESTIS database (www.dguv.de/bgia/de/gestis/stoffdb/index.jsp)
 Registered substances by ECHA (<http://echa.europa.eu/en/information-on-chemicals/registered-substances>)

· 16.5 Additional Information:

The particulars given in the Material Safety Data Sheet only apply to the described product in connection with its appropriate utilization. These particulars are based on the latest state of our knowledge and information. In particular, they serve the purpose of describing our product under the aspect of hazards caused by such product and pertaining safety actions. They do not constitute any guarantee of product quality and/or quality features. The particulars given in this Material Safety Data Sheet are required in accordance with article 31 and annex II of the Regulation (EC) No 1907/2006.

· Department issuing data specification sheet: Department Regulatory Affairs

· Contact:

Mr. Christian Geerlings
 geerlings@mellerud.de

Mr. Robert Winkler
 winkler@mellerud.de

· 16.6 Any Abbreviations and acronyms used in this document:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

AGW: Occupational Exposure Limits

CAS: Chemical Abstracts Service (division of the American Chemical Society)

CLP: Classification, Labelling and Packaging of substances and mixtures

DNEL: Derived No-Effect Level

EU: European Union

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical

EC50: Effective concentration, 50 percent

Skin Irrit. 2: Serious eye damage/eye irritation – Category 2

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

IOELV: Indicative Occupational Exposure Limit Values

PBT: Persistent Bioaccumulative and Toxic

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

OECD: Organisation for Economic Cooperation and Development

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

PNEC: Predicted No-Effect Concentration (REACH)

Eye Dam. 1: Skin corrosion/irritation – Category 1

SVHC: Substance of Very High Concern

vPvB: very Persistent and very Bioaccumulative