

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006 (REACH) Article 31, Annex II as amended.

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

| 1.1 Product identifier | |
|---|---|
| Product name: | Rivolta S.L.X. Rapid Spray |
| 1.2 Relevant identified uses of the sul | bstance or mixture and uses advised against |
| Identified uses: | Solvent-based cleaner |
| Uses advised against: | No uses advised against identified. |
| 1.3 Details of the supplier of the safety | y data sheet |
| Manufacturer / Supplier | Bremer & Leguil GmbH Am Burgacker 30 - 42 47051 Duisburg / Germany info@bremer-leguil.de |
| Telephone: | +49 (0)203 / 9923-0 |
| Contact Person: | Bremer & Leguil GmbH - Product Safety Management |
| E-mail: | product-safety-management@bremer-leguil.de |
| 1.4 Emergency telephone number: | +49 (0) 6131 19240 (Giftinformationszentrum Mainz) |
| SECTION 2: Hazards identification | |

2.1 Classification of the substance or mixture

The product has been classified and labelled as hazardous according to regulation (EU) 1272/2008 (CLP).

Classification according to Regulation (EC) No 1272/2008 as amended.

| Physical Hazards | | | |
|---|------------------------|------------------|---|
| Aerosols | | Category 1 | H222: Extremely flammable aerosol. H229: Pressurized container: May burst if heated. |
| Health Hazards | | | |
| Serious eye irritation | Serious eye irritation | | H319: Causes serious eye irritation. |
| Specific Target Organ Toxicity - Single Exposure | | Category 3 | H336: May cause drowsiness or dizziness. |
| Aspiration Hazard | | Category 1 | H304: May be fatal if swallowed and enters air- ways. |
| Hazard summary Physical Hazards: | Flammable aerosol. | | |
| Health Hazards Inhalation: | Has a r | narcotic effect. | |



| Skin Contact: | At long or repeated contact with skin it may cause dermatitis due to the degreasing effect of the solvent. |
|---------------------------------------|--|
| Ingestion: | If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. |
| 2.2 Label Elements Contains: | Hydrocarbons, low viscous Isopropyl alcohol |
| | |
| Signal Words: | Danger |
| Hazard Statement(s): | H222: Extremely flammable aerosol. H229: Pressurized container: May burst if heated. H319: Causes serious eye irritation. H336: May cause drowsiness or dizziness. |
| Precautionary Statemer | nts |
| General information: | P102: Keep out of reach of children. |
| Prevention: | P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P211: Do not spray on an open flame or other ignition source. P251: Do not pierce or burn, even after use. P261: Avoid breathing dust/fume/gas/mist/vapors/spray. P271: Use only outdoors or in a well-ventilated area. P280: Wear protective gloves/protective clothing/eye protection/face protection. |
| Response: | P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313: If eye irritation persists: Get medical advice/attention. |
| Storage: | P410+P412: Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F. |
| Supplemental label info | ermation EUH066: Repeated exposure may cause skin dryness or cracking. |
| 2.3 Information on other haz- ards | By handling of mineral oil products and chemical products no particular hazard is known when normal precautions (item 7) and personal protective equipment (item 8) are kept. The product may not be released into the environment without control. |
| Endocrine disrupting prop- erties | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Com- mission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| | |



SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information:

Mixture of components with propellant in aerosol can.

| Chemical name | Identifier | Concentration * | REACH Registra- tion No. | Notes |
|---------------------------------|-------------------|------------------|-----------------------------|-------|
| Propane | EINECS: 200-827-9 | 0% - <100,00% | 01-2119486944-21 | |
| Butane | EINECS: 203-448-7 | 0% - <100,00% | 01-2119474691-32 | |
| Isobutane (<0,1% 1,3-butadiene) | EINECS: 200-857-2 | 0% - <100,00% | 01-2119485395-27 | |
| Ethanol | EINECS: 200-578-6 | 20,00% - <50,00% | 01-2119457610-43 | |
| Hydrocarbons, low viscous | EC: 927-241-2 | 10,00% - <25,00% | 01-2119471843-32 | |
| Isopropyl alcohol | EINECS: 200-661-7 | 10,00% - <20,00% | 01-2119457558-25 | |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification

| Chemical name | Identifier | Classification | |
|---------------------------------|-------------------|----------------|--|
| Propane | EINECS: 200-827-9 | CLP: | Flam. Gas 1A;H220, Press. Gas Compr. Gas;H280 |
| Butane | EINECS: 203-448-7 | CLP: | Flam. Gas 1A;H220, Press. Gas Compr. Gas;H280 |
| Isobutane (<0,1% 1,3-butadiene) | EINECS: 200-857-2 | CLP: | Flam. Gas 1A;H220, Press. Gas Compr. Gas;H280 |
| Ethanol | EINECS: 200-578-6 | CLP: | Flam. Liq. 2;H225, Eye Irrit. 2;H319 |
| Hydrocarbons, low viscous | EC: 927-241-2 | CLP: | Flam. Liq. 3;H226, Asp. Tox. 1;H304, STOT SE 3;H336, Aquatic Chronic 3;H412 EUH066 |
| Isopropyl alcohol | EINECS: 200-661-7 | CLP: | Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336 |

CLP: Regulation No. 1272/2008.

specific concentration limit

| Chemical name | | specific concentra- tion limit | | Category | Hazard state- ments |
|---------------|-------------------|--------------------------------------|------------------------|----------|---------------------------|
| Ethanol | EINECS: 200-578-6 | >= 50 % | Serious eye irritation | 2 | H319 |

For the wording of the listed hazard statements refer to section 16.

SECTION 4: First aid measures

General:Instantly remove any clothing soiled by the product.4.1 Description of first aid measures
Inhalation:Supply fresh air; consult doctor in case of symptoms.Eye contact:Immediately flush with plenty of water for at least 15 minutes. If easy to do,
remove contact lenses. Get medical attention.Skin Contact:Wash with soap and water.



| Ingestion: | Call a physician or poison control center immediately. Rinse mouth. Never give liquid to an unconscious person. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do NOT induce vomiting. |
|--|--|
| 4.2 Most important symptoms and effects, both acute and delayed: | Causes serious eye irritation. If ingested, material may be aspirated into the lungs and cause chemical pneumonitis. Treat appropriately. Dizziness Freeze burns |
| 4.3 Indication of any immediate medical attention and spe- cial treatment needed | Get medical attention if symptoms occur. |
| SECTION 5: Firefighting measures | 5 |
| General Fire Hazards: | Use water spray to keep fire-exposed containers cool. Fight fire from a pro- tected location. Move containers from fire area if you can do so without risk. |
| 5.1 Extinguishing media | |
| Suitable extinguishing me- dia: | CO2, fire extinguishing powder or fog like water spraying. Extinguish larger fires with alcohol resistant foam or spray water with suitable surfactant add-ed |
| Unsuitable extinguishing media: | Water with a full water jet. |
| 5.2 Special hazards arising from the substance or mix- ture: | Danger of explosion with aerosol cans. |
| 5.3 Advice for firefighters | |
| Special fire-fighting proce- dures: | Move container from fire area if it can be done without risk. Dispose of fire debris and contaminated fire fighting water inaccordance with official regulations. Collect contaminated fire fighting water separately. It must not enter drains. |
| Special protective equip- ment for fire-fighters: | Firefighters must use standard protective equipment including flame retard- ant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. |
| SECTION 6: Accidental release me | easures |
| 6.1 Personal precautions, pro- tective equipment and emergency procedures: | Ventilate closed spaces before entering them. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Keep upwind. Keep away from sources of ignition - No smoking. |
| 6.2 Environmental Precautions: | Avoid release to the environment. Environmental manager must be in- formed of all major spillages. Prevent further leakage or spillage if safe to do so. Do not allow to enter drainage system, surface or ground water. |

6.3 Methods and material for containment and cleaning up: Scrape up spillage or absorb with absorbing material. Stop the flow of material, if this is without risk. Dispose of the material collected according to regulations.



| 6.4 Reference to other sec- tions: | See Section 8 of the SDS for Personal Protective Equipment. See Section 7 for information on safe handling See Section 13 for information on disposal. |
|---|--|
| | Dike for later disposal. Prevent entry into waterways, sewer, basements or confined areas. Stop the flow of material, if this is without risk. ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop leak if you can do so without risk. |
| SECTION 7: Handling and storage | »: |
| 7.1 Precautions for safe han- dling: | Avoid contact with eyes. Wash hands thoroughly after handling. Do not eat, drink or smoke when working with the product. Take usual precautions when handling mineral oil products or chemical products. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Avoid contact with flame and heat source, prevent contact with direct sunlight Use only in well-ventilated areas. |
| 7.2 Conditions for safe storage, including any incompatibili- ties: | Store locked up. Pressurized container: protect from sunlight and do not expose to temperatures exceeding 50°C. Do not pierce or burn, even after use. Local regulations concerning handling and storage of waterpolluting products have to be followed. Local regulations for the storage and handling of aerosol cans and flammable liquids have to be kept. Keep away from heat/sparks/hot surfaces No smoking. |
| 7.3 Specific end use(s): | Not applicable |
| Storage Class: | 2 B, Aerosols |
| SECTION 8: Exposure controls/pe | ersonal protection |

8.1 Control Parameters

Occupational Exposure Limits

| Chemical name | Туре | Exposure Limit Values | Source |
|---------------------------|------|-----------------------|---|
| Ethanol | AGW | 200 ppm 380 mg | y/m3 Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (06 2018) |
| Hydrocarbons, low viscous | AGW | 600 mg | y/m3 Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended |
| Butane | AGW | 1.000 ppm 2.400 mg | J/m3 Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012) |
| Isopropyl alcohol | AGW | 200 ppm 500 mg | y/m3 Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012) |
| Propane | AGW | 1.000 ppm 1.800 mg | y/m3 Germany. TRGS 900, Occupational Exposure Limits (AGW), as amended (01 2012) |

Biological Limit Values

| Chemical name | Exposure Limit Values | Source |
|--|-----------------------|------------------|
| Isopropyl alcohol (acetone: Sampling time: End of shift.) | 25 mg/l (Blood) | DE BAT (09 2013) |



| Isopropyl alcohol (acetone: Sampling time: End of shift.) | 25 mg/l (Urine) | DE BAT (09 2013) |
|--|-----------------|------------------|
| · · · · · · · · · · · · · · · · · · · | | |

8.2 Exposure controls Appropriate engineering Provide adequate ventilation. Ventilation rates should be matched to condicontrols: tions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level. Individual protection measures, such as personal protective equipment General information: Wash hands before breaks and after work. Use personal protective equipment as required. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The usual precautionary measures should be adhered to inhandling the chemicals or the mineral oil products. Eye/face protection: Avoid contact with skin and eyes. Goggles/face shield are recommended. If risk of splashing, wear safety goggles or face shield. Skin protection Hand Protection: Material: Nitrile butyl rubber (NBR). Min. Breakthrough time: >= 480 min Recommended thickness of the material: >= 0,38 mm Avoid long-term and repeated skin contact. Suitable gloves can be recommended by the glove supplier. Use skin protection cream for preventive skin protection. Protective gloves, where permitted in acc. to safety directions. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Other: Do not carry cleaning cloths impregnated with the product in trouser pockets. Wear suitable protective clothing. **Respiratory Protection:** Do not breathe dust/fume/gas/mist/vapors/spray. Provide adequate ventilation. In case of inadequate ventilation wear respiratory protection. Filter AX/P2. Thermal hazards: Not known. Hygiene measures: Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned. **Environmental Controls:** No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

| ppearance | |
|-----------------|-----------|
| Physical state: | Aerosols |
| Form: | Aerosols |
| Color: | Colorless |
| | |

Α



| | Odor: | Characteristic |
|---|--|---|
| | pH: | substance/mixture is non-soluble (in water) |
| | Freezing point: | not determined |
| | Boiling Point: | 78 °C |
| | Flash Point: | < -60 °C (DIN EN ISO 2719) |
| | Evaporation Rate: | Not applicable for mixtures |
| | Flammability (solid, gas): | not determined |
| | Flammability Limit - Upper (%)–: | Not applicable for mixtures |
| | Flammability Limit - Lower (%)–: | Not applicable for mixtures |
| | Vapor pressure: | Not applicable for mixtures |
| | Relative vapor density: | Not applicable for mixtures |
| | Density: | 0,77 g/cm3 (15 °C) (DIN 51757) |
| | Solubility(ies) | |
| | Solubility in Water: | partly soluble |
| | Solubility (other): | No data available. |
| | Partition coefficient (n-octanol/water): | Not applicable for mixtures |
| | Autoignition Temperature: | not determined |
| | Decomposition Temperature: | not determined |
| | Flow time | Value not relevant for classification |
| | Explosive properties: | Value not relevant for classification |
| | Oxidizing properties: | Value not relevant for classification |
| | Particle characteristics: | Not applicable |
| 9 | .2 Other information | No data available. |
| | | |

SECTION 10: Stability and reactivity

| 10.1 Reactivity: | Stable under normal use conditions. |
|---|--|
| 10.2 Chemical Stability: | Stable under normal use conditions. |
| 10.3 Possibility of hazardous reactions: | Stable under normal use conditions. |
| 10.4 Conditions to avoid: | Stable under normal use conditions. |
| 10.5 Incompatible Materials: | Strong oxidizing substances. Strong acids. Strong bases. |
| 10.6 Hazardous Decomposition Products: | Thermal decomposition or combustion may liberate carbon oxides and oth- er toxic gases or vapors. |

SECTION 11: Toxicological information

| Information on likely routes Inhalation: | of exposure No data available. |
|---|-----------------------------------|
| Ingestion: | No data available. |
| Skin Contact: | No data available. |
| Eye contact: | Causes eye irritation. |



11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

| Acute toxicity | | | |
|--|--|--|--|
| Oral Product: | Not classified for acute toxicity based on available data. | | |
| Specified substance(s) Ethanol | LD 50 (Rat): > 6.200 mg/kg | | |
| Hydrocarbons, low vis- cous | LD 50 (Rat): > 5.001 mg/kg (OECD 401) | | |
| Isopropyl alcohol | LD 50 (Rat): 4.570 mg/kg | | |
| Dermal Product: | Not classified for acute toxicity based on available data. | | |
| Specified substance(s) Ethanol | LD 50 (Rabbit): > 20.000 mg/kg (OECD 402) | | |
| Hydrocarbons, low vis- cous | LD 50 (Rabbit): > 5.001 mg/kg (OECD 402) | | |
| Isopropyl alcohol | LD 50 (Rabbit): 13.400 mg/kg | | |
| Inhalation Product: | Not classified for acute toxicity based on available data. | | |
| Specified substance(s) Butane | LC 50 (Rat, 4 h): 658 mg/l Gas | | |
| Isopropyl alcohol | LC 50 (Rat, 4 h): 30 mg/l | | |
| Skin Corrosion/Irritation: Product: Specified substance(s) Hydrocarbons, low vis- cous | Based on available data, the classification criteria are not met. OECD 404 Prolonged or repeated contact: Slightly irritating. | | |
| Serious Eye Damage/Eye In Product: | ritation: Based on available data, the classification criteria are met. | | |
| Respiratory or Skin Sensitiz Product: | Exation: Skin sensitizer: Based on available data, the classification criteria are not met. Respiratory sensitizer: Based on available data, the classification criteria are not met. | | |
| Specified substance(s) Hydrocarbons, low vis- cous | No sensitizing effect (guinea pig); OECD 406 | | |



| Germ Cell Mutagenicity Product: | Based on available data, the classification criteria are not met. | |
|---|--|--|
| Carcinogenicity Product: | Based on available data, the classification criteria are not met. | |
| Reproductive toxicity Product: | Based on available data, the classification criteria are not met. | |
| Specific Target Organ Toxicity - Single Exposure Product: Based on available data, the classification criteria are met. | | |
| Specific Target Organ Toxici Product: | In Toxicity - Repeated Exposure Based on available data, the classification criteria are not met. | |
| Aspiration Hazard Product: | May be fatal if swallowed and enters airways. | |
| 11.2 Information on other haz- ards | | |
| Endocrine disrupting properti Product: | es The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Com- mission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. | |

SECTION 12: Ecological information

12.1 Toxicity

| Acute toxicity Product: | Based on available data, the classification criteria are not met. | |
|--|---|--|
| Fish Specified substance(s) Propane | LC 50 (Fish, 96 h): > 1.000 mg/l | |
| Isobutane (<0,1% 1,3- butadiene) | LC 50 (Fish, 96 h): 28 mg/l | |
| Ethanol | LC 50 (Fish, 96 h): > 2.000 mg/l (OECD 203) | |
| Hydrocarbons, low vis- cous | LC 50 (Fish, 96 h): > 10 - 30 mg/l | |
| Isopropyl alcohol | LC 50 (Fish, 96 h): 9.640 mg/l | |
| Aquatic Invertebrates Specified substance(s) Isobutane (<0,1% 1,3- butadiene) | EC 50 (Water Flea, 48 h): 16,3 mg/l | |
| Ethanol | LC 50 (Water Flea, 48 h): 5.012 mg/l | |



| Hydrocarbons, low vis- cous | EC 50 (Water Flea, 48 h): > 22 - 46 mg/l | |
|---|--|--|
| Isopropyl alcohol | LC 50 (48 h): 1.400 mg/l | |
| Chronic ToxicityProduct: | Based on available data, the classification criteria are not met. | |
| Aquatic Invertebrates Specified substance(s) Ethanol | NOEC (Water Flea, 10 d): 9,6 mg/l | |
| Toxicity to Aquatic Plants Specified substance(s) Isobutane (<0,1% 1,3- butadiene) | EC 50 (Alga, 72 h): 8,6 mg/l | |
| Ethanol | EC 50 (Alga, 72 h): 275 mg/l (OECD 201) NOEC (Alga, 7 d): 208 mg/l (OECD 201) | |
| Hydrocarbons, low vis- cous | EC 50 (Alga, 72 h): > 1.000 mg/l | |
| Isopropyl alcohol | LC 50 (Alga, 72 h): > 100 mg/l | |

12.2 Persistence and Degradability

| Biodegradation Product: Specified substance(s) Ethanol | Not applicable for mixtures > 70 % (5 d, OECD 301D) Readily biodegradable |
|---|--|
| Hydrocarbons, low vis- cous | 89 % (28 d) The product is easily biodegradable. |
| 12.3 Bioaccumulative potential Product: | Not applicable for mixtures |
| 12.4 Mobility in soil: Product: | Not applicable for mixtures |
| 12.5 Results of PBT and vPvB assessment: | The product does not contain any substances fulfilling the PBT/vPvB criteria. |
| 12.6 Endocrine disrupting properties | |
| Product: | The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Com- mission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. |
| 12.7 Other adverse effects: | No data available. |



SECTION 13: Disposal considerations

13.1 Waste treatment methods

| General information: | Dispose in accordance with all applicable regulations. |
|----------------------|---|
| Disposal methods: | Discharge, treatment, or disposal may be subject to national, state, or local laws. |

European Waste Codes

16 05 04*: Gases in pressure containers (including halons) containing hazardous substances.

SECTION 14: Transport information

ADR/RID

| ADI | | |
|----------------|--|--------------------------------|
| 14.2 UN Proper | 14.1 UN number or ID number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) | UN 1950 AEROSOLS |
| | Class: Label(s): Hazard No. (ADR): | 2 2.1 - |
| | Tunnel restriction code: | (D) |
| | 14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: | - |
| | | _ |
| IMD | G | |
| | 14.1 UN number or ID number: 14.2 UN Proper Shipping Name: 14.3 Transport Hazard Class(es) | UN 1950 AEROSOLS |
| | Class: Label(s): EmS No.: | 2.1 2.1 F-D, S-U |
| | 14.3 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: | - |
| | | |
| IATA | - | |
| | 14.1 UN number or ID number: 14.2 Proper Shipping Name: 14.3 Transport Hazard Class(es): | UN 1950 Aerosols, flammable |
| | Class: Label(s): | 2.1 2.1 |
| | 14.4 Packing Group: 14.5 Environmental hazards: 14.6 Special precautions for user: | - - - |
| | | |



14.7 Maritime transport in bulk according to IMO instruments: Not applicable.

SECTION 15: Regulatory information

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

EU Regulations

EU. Regulation 1005/2009/EC on substances that deplete the ozone layer, Annex I, Controlled Substances: none

EU. Regulation 2019/1021/EU on persistent organic pollutants (POPs) (recast), as amended: none

| Water Hazard Class (WGK): | WGK 1: slightly water-endangering. |
|---------------------------------------|---|
| 15.2 Chemical safety as- sessment: | No Chemical Safety Assessment has been carried out. |

SECTION 16: Other information

National Regulations

Revision Information: Vertical lines in the margin indicate an amendment.

Wording of the H-statements in section 2 and 3

| EUH066 | Repeated exposure may cause skin dryness or cracking. |
|--------------------|--|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H225 | Highly flammable liquid and vapor. |
| H226 | Flammable liquid and vapor. |
| H229 | Pressurized container: May burst if heated. |
| H280 | Contains gas under pressure; may explode if heated. |
| H304 | May be fatal if swallowed and enters airways. |
| H319 | Causes serious eye irritation. |
| H336 | May cause drowsiness or dizziness. |
| H412 | Harmful to aquatic life with long lasting effects. |
| Other information: | The classification complies with the current EU lists; however, it has been supplemented with expert literature information and information provided by/about our company. The following evaluation methods were used: - On the basis of test data - Calculation Method - Bridging Principle "Substantially simi- lar mixtures" - Expert Judgement |
| Revision Date: | 02.12.2022 |



Disclaimer:

The data contained in this safety data sheet are based on our current knowledge and experience and are given to the best of our knowledge and belief. It characterizes the product only with regard to safety requirements for handling, transport and disposal. The data do not describe the product's properties (tech. product specification). Neither should any agreed property nor the suitability of the product for any specific technical application be deduced from the data contained in this safety data sheet. Modifications on this document are not allowed. The data are not transferable to other products. In the case of mixing the product with other products or in the case of processing, the data in this safety data sheet are not necessarily valid for the new-made material. It is the responsibility of the recipient of the product to observe federal, state and local law. Please contact us to obtain up-to-date safety data sheets. This document was issued electronically and has no signature.