| "*" alterations SECTION 1: I .1 Production .1 Production .2 Relev .2 Relev .3 Detail .3.1 Addrest .3.2 Response .3.3 Other .3.3 Other .3.3 Response .3.4 Response .3.5 Response .3.6 Response .3.6 Response .3.7 Response .3.8 Response .3.8 Response .3.1 Response .3.1 Response .3.1 Response .3.2 Response .3.2 Response .3.3 Other .3.3 Response .3.4 Response .3.4 Response .3.5 Response .3.6 Response .3.6 Response .3.7 Response .3.8 Response .3.1 Response .3.1 Response .3.1 Response .3.2 Response .3.3 Response .3.4 Response .3.4 Res | s as co Ident uct ide e Nam le No.: aration stration vant id ified us ils of t ress of a Tec & ohone: chem, rgency rgency | tification of the entifier e: n No.: on No.: lentified uses of ses: cleaning age the supplier of the f the Company / Research Gmb +43-17431886-0 le for the data so AG, Ernst-Lemm y telephone nun | substanc substanc f the substa ent he safety da Supplier: H, Hauffgass), Telefax: +4 | n.ap. = not ap e/mixture an FLUNA Isopro n.av. n.av. 01-2119457558 nce or mixtur | 3-25-xxxx | | | | |
|--|---|--|--|---|--|-----------|--|--|--|
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| Trade Article Prepa Regis 2 Relev Identif 3 Detail 3 Detail 4 Emerg Teleph 5 ECTION 2: 1 Class Flam. 2 Label Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P305+ preser Additio Attack | e Nam le No.: aration stration vant id ified us ils of t ress of a Tec & ohone: onsib Chem J rgency rgency | e: n No.: on No.: lentified uses o ses: cleaning age he supplier of t f the Company / Research Gmb +43-17431886-0 le for the data s AG, Ernst-Lemm / telephone nun | r r (f the substa ent he safety da Supplier: H, Hauffgass), Telefax: +4 | n.av. n.av. 01-2119457558 nce or mixtur | 3-25-xxxx | | | | |
| .2 Relev Identif .3 Detail .3.1 Addre Fluna Teleph .3.2 Respond CoSiC .4 Emerg Teleph .3.2 Label .1 Class Flam. .2 Label Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P305+ preser Additio Attach | vant id ified us ils of t ress of a Tec & ohone: oonsib Chem J rgency rgency | lentified uses o ses: cleaning age the supplier of t f the Company / Research Gmb +43-17431886-0 le for the data s AG, Ernst-Lemm / telephone nun | f the substa ent he safety da Supplier: H, Hauffgass), Telefax: +4 | nce or mixtur | | | | | |
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| .3.1 Addre Fluna Teleph .3.2 Respo CoSiC .4 Emerg Teleph SECTION 2: I .1 Class Flam. .2 Label Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P305+ preser Additid Attacl .3 Other This m | ress of a Tec & bhone: bonsib Chem rgency rgency | the Company / Research Gmb +43-17431886-0 le for the data s AG, Ernst-Lemm / telephone nun | Supplier: H, Hauffgass), Telefax: +4 | ila Sheel | Relevant identified uses of the substance or mixture and uses advised against Identified uses: cleaning agent Details of the supplier of the safety data sheet | | | | |
| .3.2 Respondent CoSiC 4 Emerge Telephone 5ECTION 2: I 1 Class Flam. .2 Label Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P305+ preser Addition Attach The all .3 Other This m | oonsib Chem rgency rgency | le for the data s AG, Ernst-Lemm / telephone nun | | Address of the Company / Supplier: Fluna Tec & Research GmbH, Hauffgasse 3-5, A- 1110 Wien Telephone: +43-17431886-0, Telefax: +43-17431886-18, E-Mail: office@flunatec.com | | | | | |
| 4 Emerg Emerg Teleph 5 ECTION 2: I 1 Class Flam. 2 Label Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P305+ preser Addition Attach 3 Other This m | rgency rgency | / telephone nun | | Responsible for the data sheet: | | | | | |
| Teleph SECTION 2: I .1 Class Flam. .2 Label Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P305+ preser Addition Attach .3 Other This m | | CoSiChem AG, Ernst-Lemmer-Straße 23, D - 35041 Marburg, info@c Emergency telephone number Emergency - Telephone of Company / Undertaking Information / Undertaking Informat | | | | mptoms of | | | |
| .1 Class Flam. .2 Label Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P3054 preser Additio Attacl .3 Other This m | | Poisoning | | | ng | | | | |
| .1 Class Flam. .2 Label Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P3054 preser Additio Attacl .3 Other This m | Ната | rds identificat | ion | | | | | | |
| .2 Label Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P305+ preser Additio Attacl 3 Other This m | | ion of the subst | | ture | | | | | |
| Classi Applic Signal Comp H - Ph H225: H319: H336: P - Ph P102: P210: P233: P305+ presei Additio Attach 3 Other This m | . Liq. 2 | 2; H225 / Eye Irrit | . 2; H319 / S | STOT SE 3; H3 | 36 | | | | |
| H225: H319: H336: P - Ph P102: P210: P233: P305+ presei Additio Attacl .3 Other This m | Classification according to 1272/2008/EC: Yes Applicable Exemptions: No. Signal word(s): Danger Component(s): 603-117-00-0 Propan-2-ol H - Phrases: | | | | Hazard picto | ogram(s): | | | |
| P102: P210: P233: P305+ preser Additio Attacl .3 Other This n | 5: Highl 5: Caus | ly flammable liqu ses serious eye il cause drowsines | rritation. | | | | | | |
| .3 Other This n | : Keep : Keep :+P351 ent and | o out of reach of (away from heat container tightly +P338: IF IN EY deasy to do. Cor Markings: | , hot surface closed. ES: Rinse ca tinue rinsing | autiously with v | n flames and other ignition sources. N vater for several minutes. Remove co | - | | | |
| 3 Other This m | n tacti | ile warning of da | nger. | | | | | | |
| ECTION 3 | The above mentioned labelling is valid for distribution to private consumer. Other hazards This mixture contains no substances which are assessed to be PBT or vPvB. | | | | | | | | |
| -U.I.UN 31 | mixture | nooition/!f | notion ' | | | | | | |
| | | • | nation on I | ngreatents | | | | | |
| | Com | | | | | | | | |
| Mater | | | 1 | 1 | H - phrases | m% - | | | |
| CAS | Com stance edients erial | Index - No. | EC - No. | REACH - No | | range | | | |
| Propa 67-63 | Com stance edients erial - No. | .1 | 200-661-7 | 01- 2119457558- 25-xxxx | Flam. Liq. 2; H225 / Eye Irrit. 2; H319 / STOT SE 3; H336 | > 99% | | | |
| 2 Mixtu | Com stance edients erial - No. an-2-o | 603-117-00-0 | | | | 1 | | | |

| 00.0 | |
|----------|--|
| Comp | e Name: FLUNA Isopropanol pany / Supplier: Fluna Tec & Research GmbH, Hauffgasse 3-5, A- 1110 Wien |
| lelep | hone: +43-17431886-0, Date of issue: 23.11.2015 Replaces Data Sheet of: |
| SECT | ION 4: First aid measures |
| 4.1 | Description of first aid measures |
| 4.1.1 | Inhalation: |
| | After inhalation of product / fumes of fire leave contaminated area and provide for fresh air. In the event of |
| | symptoms occurring, seek medical treatment. |
| 4.1.2 | Skin Contact: |
| | Wash away with water. In the event of symptoms occurring, seek medical treatment. |
| 4.1.3 | Eye Contact: |
| | Flush eyes out immediately with large amounts of water with eye lids lifted. If irritation persists, contact |
| | physician. |
| 4.1.4 | Ingestion: |
| 4.0 | Rinse mouth out and drink plenty of water afterwards. Consult physician. |
| 4.2 | Most important symptoms and effects, both acute and delayed |
| 12 | n.av. |
| 4.3 | Indication of any immediate medical attention and special treatment needed Symptomatic treatment. |
| l | Symptomatic treatment. |
| SECT | ION 5: Firefighting measures |
| 5.1 | Extinguishing media |
| 5.1.1 | Suitable Extinguishing Media: |
| 5.1.1 | water spray jet, Foam, dry chemicals, CO2. |
| 5.1.2 | Extinguishing Media to Avoid: |
| 0 | None. |
| 5.2 | Special hazards arising from the substance or mixture |
| • | In the case of fire, the following product(s) may form: Organic crackproducts and carbon oxides. |
| 5.3 | Advice for firefighters |
| 5.3.1 | Special Protective Equipment: |
| | Wear positive pressure self-contained breathing apparatus. Wear full protective clothing. |
| 5.3.2 | Additional Information: |
| | None. |
| | |
| | ION 6: Accidental release measures |
| 6.1 | Personal precautions, protective equipment and emergency procedures |
| | See chapter 8.2.2 |
| | Keep away from sources of ignition. |
| 6.2 | Environmental precautions |
| | Do not allow larger quantities to enter drainage. Inform responsible authorities in the case of accidental |
| <u> </u> | release of larger quantities. |
| 6.3 | Methods and material for containment and cleaning up |
| 6.4 | Soak up with absorbent material. Flush away residues with water. Reference to other sections |
| 0.4 | None. |
| | None. |
| SECT | ION 7: Handling and storage |
| 7.1 | Precautions for safe handling |
| 7.1.1 | Precautions for Safe Handling: |
| | Avoid contact with eyes and skin. Do not eat, drink or smoke during work. Take off contaminated, saturated |
| | clothing immediately. Do not inhale vapours. |
| 7.1.2 | Precautions in Case of Fire and Explosion: |
| | Keep away from sources of ignition, do not smoke. Vapours may form an explosive mixture with air. |
| 7.2 | Conditions for safe storage, including any incompatibilities |
| 7.2.1 | Storage Instructions: |
| | Floor must be resistant against solvents. |
| 7.2.2 | Store away from: |
| | Store away from explosive substances and products. oxidising agents. |
| 7.2.3 | Further Information on Storage Conditions: |
| | Provide sufficient ventilation. Protect from sun. Protect from warming up / overheating. |
| 7.3 | Specific end use(s) |
| | None. |
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| 8.1 | Control parameters | | rotection | | | |
|------------------|--|---|--|--|--|--|
| | | | | | | |
| | Material Propan-2-ol | | Limit Value AGW 200 ppm; BAT Aceton, 50 r | ng/l, B, b, U, b | | |
| 8.2 | Exposure controls | | | | | |
| 8.2.1 | Appropriate engineerin | | ainan atraight aftar una ar if d | | | |
| 8.2.2 | Individual protection n | | ainer straight after use or if e | empty. | | |
| 8.2.2a | | | nsufficient, wear respiratory | protection (Short term: filter apparatus, | | |
| 8.2.2b | Hand Protection: | In case of prolo Please observe are provided by | the supplier of the gloves. A under which the product is | ctive gloves. ermeability and breakthrough time which Also take into consideration the specific used, such as the danger of cuts, | | |
| 8.2.2c | Eye Protection: | Goggles | | | | |
| 8.2.2d | Skin Protection: | No. | a timo limito: | | | |
| 8.2.2e 8.2.3 | Further Information: | Observe wearin | ig ume iimits: | | | |
| 5.2.5 | Environmental exposu n.av. | ire controis: | | | | |
| | ON 9: Physical and ch | | | | | |
| 9.1 9.1.1 | Information on basic p | • | · · · | | | |
| 5.1.1 | Form: liquid | Colour: | colourless | Odour: alcohol-like | | |
| | Odour threshold: n.av. | | | | | |
| 9.1.2 | pH-value, undiluted: | | n.ap. | | | |
| 9.1.3 | pH-value, 1% aqueous s Boiling point / Boiling - ra | | ~7 82 | | | |
| 5.1.5 | Melting point / Melting ra | ange (°C): | -89,5 | | | |
| 9.1.4 | Flash point (°C): | | 12, closed cup | | | |
| 9.1.5 9.1.6 | Flammability (EEC A10/ | | n.ap. | | | |
| 9.1.0 9.1.7 | Ignition temperature (°C Autoflammability (EEC A | | n.av. None. | | | |
| 9.1.8 | Oxidising properties: | | n.av. | | | |
| 9.1.9 | Explosion hazard: | | None. | | | |
| 9.1.10 9.1.11 | Explosion limits (Vol.%) Vapour pressure: | lower: | 2, upper: 12 48 hPa | | | |
| 9.1.11 | Vapour pressure. Vapour density (Air = 1): | | 40 IIFa 2 | | | |
| 9.1.12 | Density (g/ml): | | 0,785 | | | |
| 9.1.13 | Solubility (in Water): | | completely miscible | Soluble in: | | |
| 9.1.14 | Partition coefficient, n-O | ctanol / Water: | 5E-02 | | | |
| 9.1.15 9.1.16 | Viscosity: Solvent content (m %): | | 2,43 mPa*s > 99 | | | |
| 9.1.17 | Thermal decomposition | (°C): | n.av. | | | |
| 9.1.18 | Evaporation rate: | | n.av. | | | |
| 9.2 | Other information | | | | | |
| | n.av. | | | | | |
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| None. Yes 22 Chemical stability 23 Possibility of hazardous reactions No hazardous reactions known. 24 Conditions to avoid Sparks, fames, static charge 25 Incompatible materials Contact with oxidising agents may lead to strong reactions. 26 Attack reactions known. 26 Incompatible materials Contact with oxidising agents may lead to strong reactions. 27 No dangerous decomposition products No dangerous decomposition products when properly handled. ECTION 11: Toxicological information 1.1 Information on toxicological effects Acute health Effects: Inhalation: LD ₈ , ORL, RAT: 5940 mg/kg Skin contact: 1.1 Information irritation: Cause serious eye damage. Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Germ cell mutagencity: Reproductive toxicity: None. STOT-single exposure: n.av. Aspiration hazard: n.av. 1.12 Practical Experience 1.11.1 nave 1.12 Practical Experience 1.11.2 Practical Experience 1.11.1 Practical Experience 1.11.2 Practical Experie | | • | | | |
|---|---|--|--|---|--|
| ECTION 10: Stability and reactivity None. 2.2 Chemical stability Stable at normal temperature. 2.3 Possibility of hazardous reactions known. 2.4 Chemical stability Stable at normal temperature. 2.3 Possibility of hazardous reactions known. 2.4 Conditions to avoid Sparts, flames, state charge 5. Incompatible materials Contact with oxidising agents may lead to strong reactions. 1.4 Hazardous decomposition products No dangerous decomposition products Log on the leaft Effects: Inhomation Log on the asset fields: None. <td <="" colspan="2" th=""><th>Compa</th><th>any / Supplier: Fluna Tec & Research GmbH</th><th></th></td> | <th>Compa</th> <th>any / Supplier: Fluna Tec & Research GmbH</th> <th></th> | | Compa | any / Supplier: Fluna Tec & Research GmbH | |
| 2.1 Reactivity None. 2.2 Chemical stability Stable at normal temperature. 2.3 Possibility of hazardous reactions No hazardous reactions known. 2.4 Conditions to avoid Sparks, flames, static charge Contact with oxidising agents may lead to strong reactions. 2.5 Incompatible materials Contact with oxidising agents may lead to strong reactions. 2.6 Hazardous decomposition products No dangerous decomposition products when properly handled. ECTION 11: Toxicological information LC ₉₀ (HL, RAT: 525 mg/L Inhalation: Inhalation: Industriation on toxicological effects Acute Health Effects: Inhalation: Industriation or contrological information 1.1 Information on toxicological information (Care eye damage) initation: Skin contact: Inhalation: None is explaining explaining with sensitisation: Care eye damage initiation: Care eye damage initiation: None. STOT-single exposure: May cause drowsiness or dizziness. STOT-single exposure: None. STOT-single exposure: None. None. Further Observations relevant for classification: None. Further Observations: None. None. STOT Single product is biodegradable. Statical Experience Observations relevant for classification: None. Further Observations: None. Stocological data refers to the pure substance. 2.1 Toxicity (Care edsmus subspicatus: 72 h) Persistence and degradability The product is biodegradability (St) Stocological data refers to the pure substance. | Teleph | one: +43-17431886-0, Date of issue: 23.11. | 2015 Replaces Data Sheet of: | | |
| None. Yes 22 Chemical stability 23 Possibility of hazardous reactions No hazardous reactions known. 24 Conditions to avoid Sparks, fames, static charge 25 Incompatible materials Contact with oxidising agents may lead to strong reactions. 26 Attack reactions known. 26 Incompatible materials Contact with oxidising agents may lead to strong reactions. 27 No dangerous decomposition products No dangerous decomposition products when properly handled. ECTION 11: Toxicological information 1.1 Information on toxicological effects Acute health Effects: Inhalation: LD ₈ , ORL, RAT: 5940 mg/kg Skin contact: 1.1 Information irritation: Cause serious eye damage. Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Germ cell mutagencity: Reproductive toxicity: None. STOT-single exposure: n.av. Aspiration hazard: n.av. 1.12 Practical Experience 1.11.1 nave 1.12 Practical Experience 1.11.2 Practical Experience 1.11.1 Practical Experience 1.11.2 Practical Experie | SECTI | ON 10: Stability and reactivity | | | |
| 2.2 Chemical stability Stable at normal temperature. | 0.1 | • | | | |
| Stable at normal temperature. 2.3 Possibility of hazardous reactions No hazardous reactions known. 2.4 Conditions to avoid Sparks, fames, static charge 3.5 Incompatible materials Contact with oxidising agents may lead to strong reactions. 3.6 Hazardous decomposition products when properly handled. 2.6 Information on toxicological information 1.7 Information on toxicological effects Acute Health Effects: Inhalation: Inagestion: Skin contact: LD ₂₀ ORL, RAT. 5840 mg/kg Skin contact: LD ₂₀ ORL, RAT. 5940 mg/kg Skin contact: None. STOT-single exposure: None. STOT-single exposure: None. STOT-single exposure: None. None. None. Toxicity LO ₂₀ Sof40 mg/ (Pimephales promelas; 96 h); LC ₂₀ : 9714 mg/ (Daphnia magna; 24 h); EC ₂₀ > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.7 Toxicity LO ₂₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₂₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₂₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.8 Descrution is no substances which are assessed to be PBT or vPvB. 2.1 Toxicity LO ₂₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₂₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₂₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.8 | 10.2 | | | | |
| 3.3 Possibility of hazardous reactions No hazardous reactions known. Conditions to avoid 2.4 Conditions to avoid Sparks, flames, static charge Contact with oxidising agents may lead to strong reactions. 2.5 Incompatible materials Contact with oxidising agents may lead to strong reactions. Description (1998) 2.6 Hazardous decomposition products No dangerous decomposition products No dangerous decomposition products No dangerous decomposition products No dangerous decomposition products Acute Health Effects: Information on toxicological effects Acute Health Effects: Information on toxicological effects Acute Health Effects: IDea ORL, RAT: 5840 mg/kg Skin Contact: LDea ORL, RAT: 5840 mg/kg Skin contact: No assnitization responses were observed. OECD 406 Germ cell mutagenicity: None. Carcinogenicity: None. StrOT-repeated exposure: May cause drowsiness or dizziness. STOT-repeated exposure: n.av. 1.11 Practical Experience 1.121 Practical Experience 1.122 Practical Experience 1. | 10.2 | | | | |
| 2.4 Conditions to avoid Sparks, filames, static charge 5 Incompatible materials Contact with oxidising agents may lead to strong reactions. 6 Hazardous decomposition products No dangerous decomposition products 7 Information on toxicological information 1.1 Information on toxicological effects Acute Health Effects: Inhalation: LC₀ IHL, RAT: 525 mg/L Inhalation: 1.1 Information on toxicological effects Acute Health Effects: Inhalation: LC₀ IRL, RAT: 5840 mg/kg Skin Contact: 2.8 Skin Contact: LD₀ DRL, RAT: 5840 mg/kg Skin corosion / initation: 3.8 No dangerous kin initiation OECD 404 Serious eye damage / initiation: 4.8 Causes serious eye damage. Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: 4.1 None. Carcinogenicity: None. 8.107-single exposure: n.av. 4.1.1 n.av. 1.1.1 Practical Experience Observations relevant for classification: None. | 0.3 | | | | |
| Sparks, Tames, static charge 2.5 Incompatible materials Contact with oxidising agents may lead to strong reactions. 1.6 Hazardous decomposition products No dargerous decomposition products No dargerous decomposition products No dargerous decomposition products Inhaliation: LC ₂₀ IHL, RAT: >25 mg/L Inhaliation: LD ₂₀ ORL, RAT: 5840 mg/kg Skin corrosion / irritation: No skin irritation OECD 404 Serious eye damage / irritation: No sensitization responses were observed. OECD 406 Gem cell mutagenicity: None. Reproductive toxicity: None. Carcinogenicity: None. Reproductive toxicity: None. STOT-single exposure: n.av. Aspiration hazard: n.av. Aspiration hazard: n.av. 1.11 n.av. 1.12 Practical Experience 1.11.1 n.av. 1.11.1 Practical Experience 1.11.1 n.av. 1.12 Practical Experience 1.13.1 n.av. 1.14.1 Practical Experience <tr< td=""><td></td><td></td><td></td></tr<> | | | | | |
| 1.5 Incompatible materials | 0.4 | | | | |
| Contact with oxidising agents may lead to strong reactions. 2.6 Hazardous decomposition products No dangerous decomposition products when properly handled. ECTION 11: Toxicological information 1.1 Information on toxicological effects Acute Health Effects: LD _a ORL, RAT: S40 mg/kg Inhalation: LD _a ORL, RAT: S40 mg/kg Skin Contact: LD _a ORL, RAT: S40 mg/kg Schoos eye damage / initiation: No skin initiation OECD 404 Serious eye damage / initiation: No skin initiation OECD 404 Germ cell mutagenicity: None. Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: None. Carcinogenicity: None. Reproductive toxicity: None. STOT-repeated exposure: n.av. 1.1.1 Practical Experience Observations relevant for classification: None. None. Further Observations: None. Further Observations: None. Further Observations: None. Further Observations: None. Furactical Experience | 0.5 | | | | |
| No dangerous decomposition products when properly handled. ECTION 11: Toxicological information 1.1 Information on toxicological effects Acute Health Effects: Inhalation: LD ₁₀ ORL, RAT: 5840 mg/kg Skin Contact: LD ₂₀ DRM, RAB: 13900 mg/kg Skin corrosion / irritation: No skin irritation OECD 404 Serious eye damage / irritation: No skin irritation OECD 404 Serious eye damage / irritation: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: None. Reproductive toxicity: None. Carcinogenicity: None. Reproductive toxicity: None. STOT-repeated exposure: n.av. 1.1.1 Practical Experience 1.1.1 n.av. 1.1.1 Practical Experience 1.1.2 Practical Experience 1.1.1 Practical Experience 1.1.2 | | | strong reactions. | | |
| <td colsp<="" td=""><td>10.6</td><td></td><td>· · · · · · · · · · · · · · · · · · ·</td></td> | <td>10.6</td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> | 10.6 | | · · · · · · · · · · · · · · · · · · · | |
| Information on toxicological effects Acute Health Effects: Inhalation: LC _{sol} [HL, RAT: >25 mg/L Ingestion: LD _{sol} ORL, RAB: 13900 mg/kg Skin corrosion / irritation: No skin irritation OECD 404 Serious eye damage / irritation: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: None. Carcinogenicity: None. Carcinogenicity: None. STOT-repeated exposure: May cause drowsiness or dizziness. STOT-repeated exposure: n.av. Aspiration hazard: n.av. 1.1.1 - Practical Experience av. 1.1.1 - Practical Experience av. 1.1.1 - Practical Experience av. None. av. None. av. None. av. None. av. L1.2 - Practical Experience av. Observations relevant for classification: None. None. av. L2.1 - Practical Experience av. L3.1 - Practical Experience av. L4.1 - Practical Experience av. | | No dangerous decomposition products wh | en properly handled. | | |
| Acute Health Effects: Inhalation: LCso IHL, RAT: >25 mg/L Inhalation: LDso ORL, RAT: 5840 mg/kg Skin Contact: LDso ORL, RAT: 5840 mg/kg Skin corrosion / initiation: No skin initiation OECD 404 Serious eye damage / initiation: Causes serious eye damage. Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: None. Carcinogenicity: None. STOT-single exposure: May cause drowsiness or dizziness. STOT-repeated exposure: n.av. Aspiration hazard: n.av. 1.11 - Practical Experience n.av. 1.111 n.av. 1.111 n.av. 1.121 Practical Experience None. Observations relevant for classification: None. None. Etoticity Voice Stotogical data refers to the pure substance. ECTION 12: Ecological information None 2.1 Toxicity L2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulation is unlikely. 2.4 <td>SECTI</td> <td>ON 11: Toxicological information</td> <td></td> | SECTI | ON 11: Toxicological information | | | |
| Inhalation: LC ₉₀ IHL, RAT: >25 mg/L Ingestion: LD ₉₀ ORL, RAT: 5640 mg/kg Skin cornact: LD ₉₀ ORL, RAT: 5640 mg/kg Skin cornact: D ₉₀ ORL, RAT: 5640 mg/kg Skin cornact: D ₉₀ ORL, RAT: 5640 mg/kg Skin cornact: No skin irritation OECD 404 Serious eye damage / irritation: Causes serious eye damage. Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Gern cell mutagenicity: None. Carcinogenicity: None. Reproductive toxicity: None. STOT-single exposure: n.av. Aspiration hazard: n.av. Aspiration hazard: n.av. 1.11 - Practical Experience | 11.1 | U | | | |
| Ingestion: LD ₂₀ ORL, RAT: 5840 mg/kg Skin corrosion / initiation: No skin initiation OECD 404 Serious eye damage / initiation: Causes serious eye damage. Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: None. Carcinogenicity: None. Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: None. Carcinogenicity: None. Reproductive toxicity: None. STOT-single exposure: May cause drowsiness or dizziness. STOT-repeated exposure: n.av. Aspiration hazard: n.av. Aspiration hazard: n.av. 1.11 Practical Experience Observations relevant for classification: None. None. Further Observations: None. toxicological data refers to the pure substance. EECTION 12: Ecological information Ecs: > 100 mg/l 2.1 Toxicity LC ₆₀ : 9640 mg/l (Pimephales prometas; 96 h); LC ₆₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₆₀ : > 100 mg/l 2.2 Persistence and degradability | | | L Cro IHI _ RAT: >25 mg/l | | |
| Skin Contact: LD ₂₀ DRM, RAB: 13900 mg/kg Skin corrosion / irritation: No skin irritation OECD 404 Serious eye damage / irritation: Causes serious eye damage. Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: None. Carcinogenicity: None. Reproductive toxicity: None. STOT-single exposure: n.av. Aspiration hazard: n.av. Aspiration hazard: n.av. Aspiration relevant for classification: None. None. Toxicial Experience 1.1.1 n.av. None. None. Yone. None. None. None. None. None. Ubservations relevant for classification: None. None. toxicological data refers to the pure substance. ECTION 12: Ecological information Eco: 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l 2.1 Toxicity C ₅₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₅₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l 2.2 Persistence and degradability The product is biodegradable. 53% (5d) | | | | | |
| Serious eye damage / irritation: Causes serious eye damage. Respiratory or skin sensitization: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: None. Reproductive toxicity: None. Reproductive toxicity: None. STOT-single exposure: May cause drowsiness or dizziness. STOT-repeated exposure: n.av. Aspiration hazard: n.av. 1.1.1 - Practical Experience n.av. Observations relevant for classification: None. None. Further Observations: None. toxicological data refers to the pure substance. ECTION 12: Ecological information Eco: 9640 mg/l (Pimephales promelas; 96 h); LC ₅₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) Persistence and degradability The product is biodegradable. 53% (5d) Endocumulative potential Bioaccumulation is unlikely. Bioaccumulation is unlikely. 2.4 Mobility in soil n.av. The product exporates readily. Eacological nor vPvB. 2.6 Other adverse effects 2.6 SOD5-Value, mg/g; n.av. 2.6.4 Significant Comp | | Skin Contact: | LD ₅₀ DRM, RAB: 13900 mg/kg | | |
| Respiratory or skin sensitisation: No sensitization responses were observed. OECD 406 Germ cell mutagenicity: None. Carcinogenicity: None. Reproductive toxicity: None. STOT-single exposure: May cause drowsiness or dizziness. STOT-repeated exposure: n.av. Aspiration hazard: n.av. Aspiration hazard: n.av. 1.11 – Practical Experience | | | | | |
| Germ cell mutagenicity: None. Carcinogenicity: None. Reproductive toxicity: None. STOT-single exposure: May cause drowsiness or dizziness. STOT-single exposure: n.av. Aspiration hazard: n.av. 1.1.1 - Practical Experience 1.1.1 - n.av. Observations relevant for classification: None. Observations relevant for classification: None. toxicological data refers to the pure substance. EETION 12: Ecological information 2.1 12.1 Toxicity LCso: 9640 mg/l (Pimephales promelas; 96 h); LCso: 9714 mg/l (Daphnia magna; 24 h); ECso: > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable.53% (5d) 2.3 Bioaccumulative potential Bioaccumulative sprometer endity. 2.4 Mobility in soil The moduct is biodegradable.53% (5d) 2.4 Aspirate contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects </td <td></td> <td></td> <td></td> | | | | | |
| Reproductive toxicity: None. STOT-single exposure: May cause drowsiness or dizziness. STOT-repeated exposure: n.av. Aspiration hazard: n.av. Aspiration hazard: n.av. 1.1.1 Practical Experience 1.1.1 n.av. 1.1.1 n.av. I.1.12 Practical Experience Observations relevant for classification: None. None. Further Observations: None. toxicological data refers to the pure substance. ECTION 12: Ecological information Ecological information 2.1 Toxicity LCso: 9640 mg/l (Pimephales promelas; 96 h); LCso: 9714 mg/l (Daphnia magna; 24 h); ECso: > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable 53% (5d) 2.3 Bioaccumulative potential Bioaccumulative potential Bioaccumulation is unlikely. Ecological context evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6.1 COD-Value, mg/g: n.av. 2.6.2 BOD5-Value, mg/g: n.av. <t< td=""><td></td><td>Germ cell mutagenicity:</td><td></td></t<> | | Germ cell mutagenicity: | | | |
| STOT-single exposure: May cause drowsiness or dizziness. STOT-repeated exposure: n.av. Aspiration hazard: n.av. Aspiration hazard: n.av. 1.1.1 - Practical Experience n.av. Observations relevant for classification: None. Further Observations: None. None. Further Observations: None. toxicity LCso: 9640 mg/l (Pimephales promelas; 96 h); LCso: 9714 mg/l (Daphnia magna; 24 h); ECso: > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulation is unlikely. 2.4 Mobility in soil The product is no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g; n.av. 2.6.3 AOX-Remarks: None. 2.6.4 Significant Components: Not relevant | | | | | |
| STOT-repeated exposure: n.av. Aspiration hazard: n.av. 1.1.1 – Practical Experience av. 1.1.1 n.av. In.av. 1.1.1 Practical Experience av. 0bservations relevant for classification: None. Further Observations: None. Further Observations: None. None. toxicological data refers to the pure substance. ECTION 12: Ecological information 2.1 Toxicity LC ₂₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₅₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulative potential Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6.1 COD-Value, mg/g; 2.6.2 BOD5-Value, mg/g; 2.6.3 AOX-Remarks: 2.6.4 <t< th=""><th></th><th></th><th></th></t<> | | | | | |
| Aspiration hazard: n.av. 1.1.1 – Practical Experience 1.1.11 n.av. 1.1.12 Practical Experience Observations relevant for classification: None. Further Observations: None. toxicological data refers to the pure substance. ECTION 12: Ecological information 2.1 Toxicity LC ₅₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₅₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulative potential Bioaccumulative storations no substances which are assessed to be PBT or vPvB. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6.1 COD-Value, mg/g: 2.6.2 BOD5-Value, mg/g: 2.6.3 AOX-Remarks: 2.6.4 Significant Components: | | | 5 | | |
| 1.1.11 n.av. 1.1.12 Practical Experience Observations relevant for classification: None. Further Observations: None. toxicological data refers to the pure substance. ECTION 12: Ecological information 2.1 Toxicity LC ₅₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₅₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: n.av. 2.6.2 BOD5-Value, mg/g: n.av. 2.6.3 AOX-Remarks: None. 2.6.4 Significant Components: Not relevant | | Aspiration hazard: | n.av. | | |
| 1.1.12 Practical Experience Observations relevant for classification: None. Further Observations: None. toxicological data refers to the pure substance. ECTION 12: Ecological information 2.1 Toxicity LC ₅₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₅₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: n.av. 2.6.2 BOD5-Value, mg/g: n.av. 2.6.3 AOX-Remarks: None. 2.6.4 Significant Components: Not relevant | 11.1.1 – 11 1 11 | Practical Experience | | | |
| Observations relevant for classification: None. Further Observations: None. toxicological data refers to the pure substance. ECTION 12: Ecological information 2.1 Toxicity LC ₅₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₅₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulative potential Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: n.av. 2.6.2 BOD5-Value, mg/g: n.av. 2.6.3 AOX-Remarks: None. 2.6.4 Significant Components: Not relevant | | | | | |
| Further Observations: None. toxicological data refers to the pure substance. ECTION 12: Ecological information 2.1 Toxicity LCso: 9640 mg/l (Pimephales promelas; 96 h); LCso: 9714 mg/l (Daphnia magna; 24 h); ECso: > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: N.av. 2.6.3 AOX-Remarks: None. 2.6.4 Significant Components: Not relevant | | | | | |
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| toxicological data refers to the pure substance. ECTION 12: Ecological information 2.1 Toxicity LC ₅₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₅₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: n.av. 2.6.2 BOD5-Value, mg/g: n.av. 2.6.3 AOX-Remarks: None. 2.6.4 Significant Components: Not relevant | | | | | |
| 2.1 Toxicity LC₅₀: 9640 mg/l (Pimephales promelas; 96 h); LC₅₀: 9714 mg/l (Daphnia magna; 24 h); EC₅₀: > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: 2.6.2 BOD5-Value, mg/g: 2.6.3 AOX-Remarks: 2.6.4 Significant Components: Not relevant | | | ince. | | |
| 2.1 Toxicity LC₅₀: 9640 mg/l (Pimephales promelas; 96 h); LC₅₀: 9714 mg/l (Daphnia magna; 24 h); EC₅₀: > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: 2.6.2 BOD5-Value, mg/g: 2.6.3 AOX-Remarks: 2.6.4 Significant Components: Not relevant | | | | | |
| LC ₅₀ : 9640 mg/l (Pimephales promelas; 96 h); LC ₅₀ : 9714 mg/l (Daphnia magna; 24 h); EC ₅₀ : > 100 mg/l (Scenedesmus subspicatus; 72 h) 2.2 Persistence and degradability The product is biodegradable. 53% (5d) 2.3 Bioaccumulative potential Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: n.av. 2.6.2 BOD5-Value, mg/g: n.av. 2.6.3 AOX-Remarks: None. 2.6.4 Significant Components: Not relevant | | | | | |
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| Bioaccumulation is unlikely. 2.4 Mobility in soil The product evaporates readily. 2.5 Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: n.av. 2.6.2 BOD5-Value, mg/g: n.av. 2.6.3 AOX-Remarks: None. 2.6.4 Significant Components: Not relevant | 10.5 | The product is biodegradable. 53% (5d) | | | |
| Mobility in soil The product evaporates readily. Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. Other adverse effects COD-Value, mg/g: n.av. BOD5-Value, mg/g: n.av. AOX-Remarks: None. Significant Components: Not relevant | 12.3 | | | | |
| The product evaporates readily. Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. 2.6 Other adverse effects 2.6.1 COD-Value, mg/g: n.av. 2.6.2 BOD5-Value, mg/g: n.av. 2.6.3 AOX-Remarks: None. 2.6.4 Significant Components: Not relevant | 12.4 | | | | |
| Results of PBT and vPvB assessment This mixture contains no substances which are assessed to be PBT or vPvB. Other adverse effects COD-Value, mg/g: n.av. BOD5-Value, mg/g: n.av. AOX-Remarks: None. Significant Components: Not relevant | | | | | |
| 2.6Other adverse effects2.6.1COD-Value, mg/g:n.av.2.6.2BOD5-Value, mg/g:n.av.2.6.3AOX-Remarks:None.2.6.4Significant Components:Not relevant | 12.5 | | are appaged to be DPT or VDVD | | |
| 2.6.1COD-Value, mg/g:n.av.2.6.2BOD5-Value, mg/g:n.av.2.6.3AOX-Remarks:None.2.6.4Significant Components:Not relevant | 12.6 | | I are assessed to be PBT of VPVB. | | |
| 2.6.2BOD5-Value, mg/g:n.av.2.6.3AOX-Remarks:None.2.6.4Significant Components:Not relevant | 12.6.1 | | n.av. | | |
| 2.6.4 Significant Components: Not relevant | 12.6.2 | BOD5-Value, mg/g: | | | |
| | 12.6.3 | | | | |
| | 12.6.4 12.6.5 | | | | |
| | 0.0 | | | | |
| | | | | | |
| | | | | | |

Page 5 of 6

| 3.1.1 3.2 3.2.1 3.2.2 \$ | Contaminated Pa Recommendation: | D 10 / R 4 with the regional autiackaging Wash with suitable cannot be cleaned | the user, the produc horities. cleaner. Otherwise as descrit | ould be assigned in discussion between er and the waste disposal company. bed under Residues. Packaging that | | | |
|--|--|--|--|--|--|--|--|
| 3.2 (3.2.1 F 3.2.2 \$ | Contaminated Pa Recommendation: | ackaging : Wash with suitable cannot be cleaned | horities. cleaner. Otherwise as descrit | bed under Residues. Packaging that | | | |
| 3.2.2 | | cannot be cleaned | cleaner. Otherwise as describ should be disposed of as for | bed under Residues. Packaging that | | | |
| | eale handing. | Recommendation:Wash with suitable cleaner. Otherwise as described under Residues. Packaging that cannot be cleaned should be disposed of as for productSafe Handling:As described under Residues. Observe the usual precautionary measures for handling | | | | | |
| | | chemicals. | | | | | |
| | N 14: Transpor | t information | | | | | |
| | ADR | | IMDG | ΙΑΤΑ | | | |
| 4.1 <u>I</u> | UN number | | 1 | | | | |
| | 1219 | | 1219 | 1219 | | | |
| - | UN proper shippi | | | | | | |
| | UN 1219 Isopropa | | Isopropanol | Isopropanol | | | |
| - | Transport hazard | class(es) | 2 | | | | |
| | 3 | | 3 | 3 | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 3 | | | | | | |
| 4.4 <u>I</u> | Packing group | | | | | | |
| | II | | 11 | 11 | | | |
| 4.5 <u>I</u> | Environmental ha | azards | | | | | |
| | | | No. | | | | |
| 4.6 | Special precautions for user | | | | | | |
| | Transport categor | | F-E; S-D | Packing Instructions | | | |
| | Classification Coo Hazard - No.: 33 | JE: F1 | | (Passenger) 353 | | | |
| | LQ: 1 L | | | Packing Instructions (Cargo) 364 | | | |
| 4.7 | Transport in bulk | according to Annex | II of MARPOL73/78 and the | | | | |
| | | <u> </u> | None. | | | | |
| | | | | | | | |
| SECTIO | N 15: Regulato | orv information | | | | | |
| | | - | ulations/legislation specific | for the substance or mixture | | | |
| 1 | n.av. | - | . . | | | | |
| 5.2 | Chemical safety assessment : | | | | | | |
| | Chemical safety assessment : A chemical safety assessment has not been carried out. | | | | | | |

Trade Name: FLUNA Isopropanol

Company / Supplier: Fluna Tec & Research GmbH, Hauffgasse 3-5, A- 1110 Wien Telephone: +43-17431886-0, Date of issue: 23.11.2015 Replaces Data Sheet of: ---

SECTION 16: Other information

Text of H phrases mentioned in Section 3

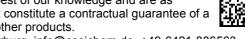
H225: Highly flammable liquid and vapour.

H319: Causes serious eye irritation.

H336: May cause drowsiness or dizziness.

This datasheet has been compiled in accordance with EU regulation 2015/830.

The statements in this Material Safety Data Sheet were made to the best of our knowledge and are as accurate as possible. They are given for information only. They do not constitute a contractual guarantee of a product's properties. They must neither be altered nor transferred to other products.



Prepared by: CoSiChem AG, Ernst-Lemmer-Straße 23, D - 35041 Marburg, info@cosichem.de, +49-6421-886563 Receipt of Data: 17.11.2016, frg 0145

