



SDIOConsortium.com

Identified Uses for SDIOC substances – REACH registration 2013

Substance: calcium thiosulfate

EINECS No. 233-333-7

CAS 10124-41-1

Uses by workers in industrial settings

| Confidential | IU number | Identified Use (IU) name | Substance supplied to that use | Use descriptors |
|--------------|-----------|---|--|---|
| | 1 | Manufacture of calcium thiosulfate and industrial use of calcium thiosulfate in the chemical industry | as such (substance itself) in a mixture | <p>Process category (PROC):</p> <p>PROC 1: Use in closed process, no likelihood of exposure</p> <p>PROC 2: Use in closed, continuous process with occasional controlled exposure</p> <p>PROC 3: Use in closed batch process (synthesis or formulation)</p> <p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC 6: Calendering operations</p> <p>PROC 7: Industrial spraying</p> <p>PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to</p> |

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| | | | | <p>vessels/large containers at dedicated facilities</p> <p>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC 10: Roller application or brushing</p> <p>PROC 12: Use of blowing agents in manufacture of foam</p> <p>PROC 13: Treatment of articles by dipping and pouring</p> <p>PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation</p> <p>PROC 15: Use as laboratory reagent</p> <p>PROC 16: Using material as fuel sources, limited exposure to unburned product to be expected</p> <p>PROC 17: Lubrication at high energy conditions and in partly open process</p> <p>PROC 18: Greasing at high energy conditions</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p>PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p>PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting</p> <p>PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature</p> |

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| | | | | <p>PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles</p> <p>PROC 25: Other hot work operations with metals</p> <p>PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p>Market sector by type of chemical product:</p> <p>PC 1: Adhesives, sealants</p> <p>PC 2: Adsorbents</p> <p>PC 3: Air care products</p> <p>PC 4: Anti-freeze and de-icing products</p> <p>PC 7: Base metals and alloys</p> <p>PC 8: Biocidal products (e.g. disinfectants, pest control)</p> <p>PC 9a: Coatings and paints, thinners, paint removes</p> <p>PC 9b: Fillers, putties, plasters, modelling clay</p> <p>PC 13: Fuels</p> <p>PC 14: Metal surface treatment products, including galvanic and electroplating products</p> <p>PC 15: Non-metal-surface treatment products</p> <p>PC 17: Hydraulic fluids</p> |

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| | | | | <p>PC 18: Ink and toners</p> <p>PC 19: Intermediate</p> <p>PC 20: Products such as ph-regulators, flocculants, precipitants, neutralisation agents</p> <p>PC 23: Leather tanning, dye, finishing, impregnation and care products</p> <p>PC 24: Lubricants, greases, release products</p> <p>PC 25: Metal working fluids</p> <p>PC 26: Paper and board dye, finishing and impregnation products: including bleaches and other processing aids</p> <p>PC 28: Perfumes, fragrances</p> <p>PC 30: Photo-chemicals</p> <p>PC 31: Polishes and wax blends</p> <p>PC 32: Polymer preparations and compounds</p> <p>PC 34: Textile dyes, finishing and impregnating products; including bleaches and other processing aids</p> <p>PC 35: Washing and cleaning products (including solvent based products)</p> <p>PC 37: Water treatment chemicals</p> <p>PC 38: Welding and soldering products (with flux coatings or flux cores.), flux products</p> |

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| | | | | <p>PC 39: Cosmetics, personal care products</p> <p>PC 40: Extraction agents</p> <p>Environmental release category (ERC):</p> <p>ERC 1: Manufacture of substances</p> <p>ERC 2: Formulation of preparations</p> <p>ERC 3: Formulation in materials</p> <p>ERC 4: Industrial use of processing aids in processes and products, not becoming part of articles</p> <p>ERC 5: Industrial use resulting in inclusion into or onto a matrix</p> <p>ERC 6a: Industrial use resulting in manufacture of another substance (use of intermediates)</p> <p>ERC 6b: Industrial use of reactive processing aids</p> <p>ERC 6d: Industrial use of process regulators for polymerisation processes in production of resins, rubbers, polymers</p> <p>ERC 7: Industrial use of substances in closed systems</p> <p>ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p>Sector of end use (SU):</p> <p>SU 8: Manufacture of bulk, large scale chemicals (including petroleum products)</p> |

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| | | | | <p>SU 9: Manufacture of fine chemicals</p> <p>SU 10: Formulation [mixing] of preparations and/or re-packaging (excluding alloys)</p> <p>SU 16: Manufacture of computer, electronic and optical products, electrical equipment</p> <p>SU 20: Health services</p> <p>Subsequent service life relevant for that use?: no</p> |
| | 2 | Agriculture and fertiliser industry | as such (substance itself) in a mixture | <p>Process category (PROC):</p> <p>PROC 1: Use in closed process, no likelihood of exposure</p> <p>PROC 2: Use in closed, continuous process with occasional controlled exposure</p> <p>PROC 3: Use in closed batch process (synthesis or formulation)</p> <p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC 6: Calendering operations</p> <p>PROC 7: Industrial spraying</p> <p>PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> |

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| | | | | <p>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC 10: Roller application or brushing</p> <p>PROC 12: Use of blowing agents in manufacture of foam</p> <p>PROC 13: Treatment of articles by dipping and pouring</p> <p>PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation</p> <p>PROC 15: Use as laboratory reagent</p> <p>PROC 16: Using material as fuel sources, limited exposure to unburned product to be expected</p> <p>PROC 17: Lubrication at high energy conditions and in partly open process</p> <p>PROC 18: Greasing at high energy conditions</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p>PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p>PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting</p> <p>PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature</p> <p>PROC 24: High (mechanical) energy work-up of substances bound in materials and/or</p> |

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| | | | | <p>articles</p> <p>PROC 25: Other hot work operations with metals</p> <p>PROC 26: Handling of solid inorganic substances at ambient temperature</p> <p>Market sector by type of chemical product:</p> <p>PC 12: Fertilisers</p> <p>PC 19: Intermediate</p> <p>Environmental release category (ERC):</p> <p>ERC 2: Formulation of preparations</p> <p>ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p>ERC 8e: Wide dispersive outdoor use of reactive substances in open systems</p> <p>Sector of end use (SU):</p> <p>SU 1: Agriculture, forestry and fishing</p> <p>Subsequent service life relevant for that use?: no</p> |

Uses by professional workers

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| | 3 | Agriculture and fertiliser sector | as such (substance itself) in a mixture | <p>Process category (PROC):</p> <p>PROC 2: Use in closed, continuous process with occasional controlled exposure</p> <p>PROC 3: Use in closed batch process (synthesis or formulation)</p> <p>PROC 4: Use in batch and other process (synthesis) where opportunity for exposure arises</p> <p>PROC 5: Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)</p> <p>PROC 6: Calendering operations</p> <p>PROC 8a: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities</p> <p>PROC 8b: Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at dedicated facilities</p> <p>PROC 9: Transfer of substance or preparation into small containers (dedicated filling line, including weighing)</p> <p>PROC 10: Roller application or brushing</p> <p>PROC 11: Non industrial spraying</p> <p>PROC 12: Use of blowing agents in manufacture of foam</p> <p>PROC 13: Treatment of articles by dipping and pouring</p> |

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| | | | | <p>PROC 14: Production of preparations or articles by tableting, compression, extrusion, pelletisation</p> <p>PROC 15: Use as laboratory reagent</p> <p>PROC 16: Using material as fuel sources, limited exposure to unburned product to be expected</p> <p>PROC 17: Lubrication at high energy conditions and in partly open process</p> <p>PROC 18: Greasing at high energy conditions</p> <p>PROC 19: Hand-mixing with intimate contact and only PPE available.</p> <p>PROC 20: Heat and pressure transfer fluids in dispersive, professional use but closed systems</p> <p>PROC 21: Low energy manipulation of substances bound in materials and/or articles</p> <p>PROC 22: Potentially closed processing operations with minerals/metals at elevated temperature. Industrial setting</p> <p>PROC 23: Open processing and transfer operations with minerals/metals at elevated temperature</p> <p>PROC 24: High (mechanical) energy work-up of substances bound in materials and/or articles</p> <p>PROC 25: Other hot work operations with metals</p> <p>PROC 26: Handling of solid inorganic substances at ambient temperature</p> |

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| | | | | <p>Market sector by type of chemical product:</p> <p>PC 12: Fertilisers</p> <p>Environmental release category (ERC):</p> <p>ERC 2: Formulation of preparations</p> <p>ERC 8b: Wide dispersive indoor use of reactive substances in open systems</p> <p>ERC 8e: Wide dispersive outdoor use of reactive substances in open systems</p> <p>Subsequent service life relevant for that use?: no</p> |