

Safety Data Sheet per OSHA HazCom 2012

1 Identification Product identifier Product name: (1R)-(-)-Camphor-10-sulfonic acid Stock number: B21553, L14623 CAS Number: 35963-20-3 EC number: 252-817-9 Relevant identified uses of the substance or mixture and uses advised against. Identified use: SU24 Scientific research and development Details of the supplier of the safety data sheet Manufacturer/Supplier: Alfa Aesar Thermo Fisher Scientific Chemicals, Inc. Inerrito Fisher Scheman C. 30 Bond Street Ward Hill, MA 01835-8099 Tel: 800-343-0660 Fax: 800-322-4757 Email: tech @alfa.com www.alfa.com Information Department: Health, Safety and Environmental Department Emergency telephone number: During normal business hours (Monday-Friday, 8am-7pm EST), call (800) 343-0660. After normal business hours, call Carechem 24 at (866) 928-0789. 2 Hazard(s) identification Classification of the substance or mixture in accordance with 29 CFR 1910 (OSHA HCS) EZ GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. Hazards not otherwise classified No information known. Label elements GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms E.F. GHS05 Signal word Danger Hazard statements H314 Causes severe skin burns and eye damage. Precautionary statements P260 Do not b Precautionary statements P260 Do not breathe dust/fume/gas/mist/vapours/spray. P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P405 Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. WHMIS classification D2B - Toxic material causing other toxic effects E - Corrosive material of the Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System) 2 Health (acute effects) = 21 Flammability = 1Physical Hazard = 1 Other hazards Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable. 3 Composition/information on ingredients Chemical characterization: Substances CAS# Description: 35963-20-3 (1R)-(-)-Camphor-10-sulfonic acid Identification number(s): EC number: 252-817-9 4 First-aid measures Description of first aid measures General information Immediately remove any clothing soiled by the product. After inhalation Supply fresh air. If required, provide artificial respiration. Keep patient warm. Seek immediate medical advice. After skin contact Immediately wash with water and soap and rinse thoroughly. Seek immediate medical advice. (Contd. on page 2) Product name: (1R)-(-)-Camphor-10-sulfonic acid

## (Contd. of page 1) After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing Seek medical treatment. Information for doctor Most important symptoms and effects, both acute and delayed Causes severe skin burns. Causes serious eye damage. Indication of any immediate medical attention and special treatment needed No further relevant information available 5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Use carbon dioxide, extinguishing powder or foam. Water may be ineffective but may be used for cooling exposed containers. Special hazards arising from the substance or mixture If this product is involved in a fire, the following can be released: Carbon monoxide and carbon dioxide Advice for firefighters Protective equipment: Wear self-contained respirator. Wear fully protective impervious suit. 6 Accidental release measures Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away Ensure adequate ventilation Environmental precautions: Do not allow material to be released to the environment without proper governmental permits. Methods and material for containment and cleaning up: Use neutralizing agent. Dispose of contaminated material as waste according to section 13. Ensure adequate ventilation. Prevention of secondary hazards: No special measures required. 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 disposal information. 7 Handling and storage Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Information about protection against explosions and fires: No information known. Conditions for safe storage, including any incompatibilities Storage Requirements to be met by storerooms and receptacles: No special requirements. Information about storage in one common storage facility: Store away from oxidizing agents. Store away from strong bases. Store away from water/moisture. Further information about storage conditions: This product is hygroscopic. Store under dry inert gas. Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. Protect from humidity and water. Specific end use(s) No further relevant information available. 8 Exposure controls/personal protection Additional information about design of technical systems: Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute. Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data Exposure controls Personal protective equipment General protective and hygienic measures The usual precautionary measures for handling chemicals should be followed. Keep away from foodstuffs, beverages and feed. Remove all soiled and contaminated clothing immediately. Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: General protective and hygienic measures Impervious gloves Check protective gloves prior to each use for their proper condition. The selection of suitable gloves not only depends on the material, but also on quality. Quality will vary from manufacturer to manufacturer. Eye protection: Tightly sealed goggles Full face protection Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: Powder Color: White (Contd. on page 3)

## Product name: (1R)-(-)-Camphor-10-sulfonic acid

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Product name: (1R)-(-)-Camphor-10-s	sulfonic acid	
	(Cont	td. of page 2)
Odor: Odor threshold:	Not determined Not determined.	
pH-value:	Not applicable.	
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	197-199 °C (387-390 °F) (dec) Not determined Not determined	
Flash point: Flammability (solid, gaseous) Ignition temperature: Decomposition temperature:	Not applicable Not determined. Not determined Not determined Not determined.	
Auto igniting: Danger of explosion:	Product does not present an explosion hazard.	
Explosion limits: Lower: Upper:	Not determined Not determined	
Vapor pressure: Density: Relative density	Not applicable. Not determined Not determined.	
Vapor density Evaporation rate Solubility in / Miscibility with	Not applicable. Not applicable.	
Water: Partition coefficient (n-octanol/water):	Not determined Not determined.	
Viscosity: dynamic: kinematic:	Not applicable. Not applicable.	
Other information	No further relevant information available.	
10 Stability and reactivity Reactivity No information known. Chemical stability Stable under recommended storage conditions. Thermal decomposition / conditions to be avoided: Decomposition will not occur if used and stored according to specifications. Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Incompatible materials: Oxidizing agents Bases Water/moisture Hazardous decomposition products: Carbon monoxide and carbon dioxide Sulfur oxides (SOx)		
LD/LC50 values that are relevant for c Skin irritation or corrosion: Causes se Eye irritation or corrosion: Causes ser Sensitization: No sensitizing effects kno Germ cell mutagenicity: No effects kno Carcinogenicity: No classification data of Reproductive toxicity: No effects know, Specific target organ system toxicity - Specific target organ system toxicity - Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects	vere skin burns. ious eye damage. wm. on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. n. <b>- repeated exposure:</b> No effects known. • <b>single exposure:</b> No effects known.	r the skin.
12 Ecological information Toxicity Aquatic toxicity: No further relevant info	ormation available.	
Persistence and degradability No furth Bioaccumulative potential No further re Mobility in soil No further relevant inforr Additional ecological information: General notes: Do not allow material to be released to th	er relevant information available. elevant information available. mation available. ne environment without proper governmental permits. uantities to reach ground water, water course or sewage system.	
13 Disposal considerations Waste treatment methods Recommendation Consult state, local o Uncleaned packagings: Recommendation: Disposal must be ma	r national regulations to ensure proper disposal. ade according to official regulations.	
14 Transport information		
UN-Number DOT, IMDG, IATA	UN3261	
		d. on page 4)

(Contd. on page 4)

UN proper shipping name body       Corrosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sultanic corrosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sultanic acid)         Transport hazard class(es) DOT       Class       8         Class       8       6         Label       8       Corrosive substances.         Class       9       6(2)         Class       8       6         Class       8       6(2)         Class       8       8         Class       8       8         DoT, IMGG, IATA       III       IIII         Environmental hazards:       Not applicable.         Transport/Additional information:       DOT         DOT       Mode applicable.         Transport/Additional information:       DOT         DOT       Not       UN1 Woole Regulation?         UN Windel Regulation?:       UN2261; Corosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sullonic         String Publicable       9       0         Transp	Product name: (1R)-(-)-Camphor-10-sulfonic acid			
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Class       8         Packing group       8         Dor, Mido, NaTA       11         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Corrosive substances         Segregation groups       Additional findomation:         Dor, Marce Additional Information:       Not applicable.         Dor, Marce Additional Information:       Not         Dor       Marine Pollutant (DOT):       No         UN 'Model Regulation':       UN261'. Corrosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sullonic         Seter, In-Baltiant (DOT):       No         UN 'Model Regulation':       UN261'. Corrosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sullonic         Seter, In-Baltiant and environmental regulations/Registation specific for the substance or mixture         Seter, In-Baltiant and environmental regulations/Registation specific for the substance or mixture         Seter, In-Baltiant and environmental regulations/Registation specific for the substance or mixture         Seter, In-Baltiant and environmental regulations/Registation specific for the substance or mixture         Seter, In-Baltiant and environmental regulations/Registation specific for the substance or mixture         Seter, In-Baltiant and environmental regulations/Registation specific for the substance or mixture         Seter (In-Baltiant and environmental regulations/Registrict/Appound/gray, <th>Label</th> <th>8</th>	Label	8		
Label       6         Packing group DOT, MBCG, IATA       III         Environmental hazards:       Not applicable.         Special precautions for user       Warning: Corrosive substances Segregation groups         Transport in bulk according to Annex II of MARPOLT378 and the IBC Code Not applicable.         Transport in bulk according to Annex II of MARPOLT378 and the IBC Code Not applicable.         OT       Marine Pollutant (DOT):         UN "Model Regulation":       UN3261. Corrosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sulfonic acid). 8. III         15 Regulatory Information       Satery, health and environmental regulations/legislation specific for the substance or mixture GHS babe lements: The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms         Void       Free autionary statements Precoultomery statements Precoultomer statements Precoultomer statements Precoultomery statements Precoultomery statements Precoultomer statecode due Prop 63 - Developmental toxicity,				
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Environmental hazards:       Not applicable.         Special precautions for user       Warning: Corrosive substances         Special precautions for user       Acids.         Transport/Additional information:       Image: Corrosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sulfonic acid), 8, ///         Mare Pollutant (DOT):       No         UN "Model Regulation":       UN3261, Corrosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sulfonic acid), 8, ///         15 Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture grant pletograms         GH505       Gingal word Denger         Hazard pletograms       Free autions and eye damage.         Precautionsy statements       Free autionsy statements         H314 Causes severe skin burns and eye damage.       Free autionsy statements         H314 Causes severe skin burns and eye damage.       Free autionsy statements         H314 Causes severe skin burns and eye damage.       Free autionsy statements         H314 Causes severe skin burns and eye damage.       Free autionsy statements         H314 Causes severe skin burns and eye damage.       Free autions and eye damage.         Free autions state dustrime/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mixture/inset/mix				
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Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code Not applicable.         Transport/Additional information:         DOT         Marine Pollutant (DOT):         UN "Model Regulation":         UN "Model Regulation":         UN "Model Regulation":         UN "Model Regulation":         Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Haard pictograms         GHS05         Signal word Danger Haard pictograms         P200         Do no breathe dust/lume/gas/mist/vapours/spray. P200         Do no breathe dust/lume/gas/mist/vapours/spray. P201 + P333 If or Skin / or hair). Take off immediately all containnated clothing. Rinse skin with water/shower. P301 + P331 if or Skin / Or hair). Take off immediately all containnated clothing. Rinse skin with water/shower. P301 + P331 if or Skin / Or hair). Take off immediately all containnated clothing. Rinse skin with water/shower. P301 + P331 if or Skin / Or hair). Take off immediately all containnated clothing. Rinse skin with water/shower. P301 + P331 if or Skin / Or hair). Take off immediately all containnated clothing. Rinse skin with water/shower. P301 + P331 if Skin / UNEL OWED mes mould.         P301 + P314 if Skin / UNEL OWED mes mould.       Do not breathe dust/lume/gas/mist/vapours/spray. P301 - P303 if Skin / UNEL OWED mes mould.         P301 + P314 if Skin / UNEL OWED mes mould.       Do not breathe dust/lume/gas/mist/ Skin / UNEL OWED mes mould.	Special precautions for user	Warning: Corrosive substances		
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15 Regulatory information         Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS label elements         Hazard pictograms         Signal word Danger         Hazard statements         Hazard statements         Precaultory statements         Page (Page 1+P353 II on skin (or hair): Take ofl immediately all contaminated clothing, Rinse skin with water/shower.         P301+P333 II E/NALLOWED: Inse mouth. Do NOT induce vomiting.         P403       Store locked up.         P301       Store locked up.         P403       Store locked up.         P404       Store locked up.         P405       Store locked up.         P406       Chemical substance is not listed.         Prop 65 - Chemical shown to cause cancer Substance is not listed.         Prop 65 - Developmental toxicity Subalsance is not listed.         <		UN3261, Corrosive solid, acidic, organic, n.o.s. ((1R)-(-)-Camphor-10-sulfonic		
Safety, health and environmental regulations/legislation specific for the substance or mixture GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Hazard pictograms GHS05 Signal word Danger Hazard statements Precautionary statements Precautions of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory. SARA Section 313 (specific toxic chemical listed) Prop 65 - Developmental toxicity, Kinamle Substance is not listed. Prop 65 - Developmental toxicity, Kinamle Substance is not listed. Prop 65 - Developmental toxicity, Rimale Substance is not listed. Prop 65 - Developmental toxicity, Rimale Substance is not listed. Prop 65 - Developmental toxicity, Rimale Substance is not listed. Prop 65 - Developmental toxicity, Rimale Substance is not listed. Prop 65 - Developmental toxicity, Rimale Substance is not listed. Prop 65 -		_acid), 8, 111		
Employers should use this information only as a supplement to other information gathered by them, and should make independent judgement of suitability of this information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the product not is conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user.  Department issuing SDS: Global Marketing Department	GHS05      Signal word Danger     Hazard statements     H314 Causes severe skin burns and eye damage.     Preautionary statements     H314 Causes severe skin burns and eye damage.     Preautionary statements     P260     P301+P351 from skin (or hair): Take off immediately all containnated clothing. Rinse skin with water/shower.     P305+P351+P338 from skin (or hair): Take off immediately all containnated clothing. Rinse skin with water/shower.     P305+P351+P335 from skin (or hair): Take off immediately all containnated clothing. Rinse skin with water/shower.     P301+P351+P335 from skin (or hair): Take off immediately all containnated clothing. Rinse skin with water/shower.     P301+P350+P351 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.     P405 Store locked up.     P501 Dispose of contents/container in accordance with local/regional/national/international regulations.     National regulations     All components of this product are listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical substance Inventory.     SARA Section 313 (specific toxic chemical listings) Substance is not listed.     Prop 65 - Chemicals known to cause cancer Substance is not listed.     Prop 65 - Developmental toxicity, female Substance is not listed.     Prop 65 - Developmental toxicity, female Substance is not listed.     Prop 65 - Developmental toxicity, female Substance is not listed.     Prop 65 - Developmental toxicity, female Substance is not listed.     Information about limitation of use: For use only by technically qualified individuals.     Other regulations, limitations and prohibitive regulations.     Substance of Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed.     The conditions of restrictions according to the REACH Regulations (EC) No. 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed.     Substance is not listed.			
LC50: Lethal concentration, 50 percent (Control of Storm (Control of Storm (Control of Storm (Control on pa				

## Product name: (1R)-(-)-Camphor-10-sulfonic acid

LD50: Lethal dose, 50 percent vPvB: very Persistent and very Bioaccumulative ACGIH: American Conference of Governmental Industrial Hygienists (USA) OSHA: Occupational Safety and Health Administration (USA) NTP: National Toxicology Program (USA) IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA) Page 5/5 Printing date 11/24/2015 Reviewed on 05/30/2008

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USA -