



1 Identification
Product identifier Product name: ( <b>R)-(+)-Indoline-2-carboxylic acid</b>
Stock number: H27626
CAS Number: 98167-06-7
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. 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)
GHS08 Health hazard
Repr. 2 H361 Suspected of damaging fertility or the unborn child.
STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.
GHS07
Skin Sens. 1 H317 May cause an allergic skin reaction. 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
GHS07 GHS08
Signal word Warning Hazard statements H317 May cause an allergic skin reaction. H361 Suspected of damaging fertility or the unborn child.
H373 May cause damage to organs through prolonged or repeated exposure. Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves / protective clothing. P262 Do not get in eyes, on skin, or on clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P262 Do not get in eyes, on skin, or on clothing. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
WHMIS classification D2A - Very toxic material causing other toxic effects
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Classification system HMIS ratings (scale 0-4) (Hazardous Materials Identification System)
HEALTH     II       HEALTH     II       FIRE     II       Fire     II
Reactivity []     Physical Házard = 1       Other hazards     Control of the second s
Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.
3 Composition/information on ingredients
Chemical characterization: Substances CAS# Description:
98167-06-7 (R)-(+)-Indoline-2-carboxylic acid
4 First-aid measures
Description of first aid measures 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 immédiate medical advice.
After eye contact Rinse opened eye for several minutes under running water. Then consult a doctor.

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Product name: (R)-(+)-Indoline-2-carboxylic acid					
After swallowing Seek medical treatme Information for doctor Most important symptoms and effects Indication of any immediate medical a	nent. <b>ts, both acute and delayed</b> No further relevant information available. A <b>ttention and special treatment needed</b> No further relevant information available.	(Contd. of page 1)			
5 Fire-fighting measures Extinguishing media Suitable extinguishing agents Carbon dioxide, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 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 Nitrogen oxides (NOx) Possibly Hydrogen cyanide (HCN) Advice for firefighters Protective equipment: Wear sulf-contained respirator. Wear fully protective impervious suit.					
Wear protective equipment. Keep unpro Ensure adequate ventilation Environmental precautions: Do not all Methods and material for containmen Prevention of secondary hazards: No Reference to other sections	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: Dispose of contaminated material as waste according to section 13. 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.				
7 Handling Handling Precautions for safe handling Keep container tightly sealed. Store in cool, dry place in tightly closed containers. Ensure good ventilation at the workplace. Prevent formation of dust. 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. Further information about storage conditions: Keep container tightly sealed. Store in cool, dry conditions in well sealed containers. <b>Specific end use(s)</b> No further relevant information available.					
<ul> <li>8 Exposure controls/personal protection</li> <li>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.</li> <li>Control parameters Components with limit values that require monitoring at the workplace: Not required. Additional information: No data</li> <li>Exposure controls Personal protective equipment General protective equipment Hersonal at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Protection of hands: 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. Penetration time of glove material (in minutes) Not determined Eye protection: Protective work clothing.</li> </ul>					
9 Physical and chemical properties	S				
Information on basic physical and ch General Information Appearance: Form: Color: Odor: Odor threshold:	hemical properties Powder Off-white Odorless Not determined.				
pH-value:	Not applicable.				
Change in condition Melting point/Melting range: Boiling point/Boiling range: Sublimation temperature / start:	Not determined Not determined Not determined				
Flash point: Flammability (solid, gaseous) Ignition temperature:	Not applicable Not determined. Not determined				
		(Contd. on page 3)			

## Product name: (R)-(+)-Indoline-2-carboxylic acid

Product name: (R)-(+)-Indoline-2-ca		)		
Decomposition temperature	Not determined	(Contd. of page 2)		
Decomposition temperature: Auto igniting:	Not determined Not determined.			
Danger of explosion: Explosion limits: Lower: Upper: Vapor pressure: Density: Relative density Vapor density Evaporation rate Solubility in / Miscibility with Water: Partition coefficient (n-octanol/water) Viscosity: dynamic: kinematic: Other information	Product does not present an explosion hazard. Not determined Not determined Not determined Not determined Not determined. Not applicable. Insoluble r): Not determined. Not applicable. 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 Hazardous decomposition products: Carbon monoxide and carbon dioxide Nitrogen oxides Possibly Hydrogen cyanide (HCN)				
11 Toxicological information Information on toxicological effects Acute toxicity: No effects known. LD/LC50 values that are relevant for classification: No data Skin irritation or corrosion: May cause irritation Eye irritation or corrosion: May cause irritation Sensitization: May cause an allergic skin reaction. Germ cell mutagenicity: No effects known. Carcinogenicity: No classification data on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. Reproductive toxicity: Suspected of damaging fertility or the unborn child. Specific target organ system toxicity - repeated exposure: May cause damage to organs through prolonged or repeated exposure. Specific target organ system toxicity - single exposure: No effects known. Specific target organ system toxicity - single exposure: No effects known. Aspiration hazard: No effects known. Subacute to chronic toxicity: No effects known. Additional toxicological information: To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.				
12 Ecological information				
Toxicity Aquatic toxicity: No further relevant ini Persistence and degradability No furth Bioaccumulative potential No further I Mobility in soil No further relevant infor Additional ecological information: General notes: Do not allow material to be released to t Do not allow undiluted product or large of Avoid transfer into the environment. Results of PBT and vPvB assessmen PBT: Not applicable. vPvB: Not applicable. Other adverse effects No further releva	ther relevant information available. relevant information available. ormation available. the environment without proper governmental permits. quantities to reach ground water, water course or sewage system. <b>nt</b>			
13 Disposal considerations Waste treatment methods Recommendation Consult state, local or national regulations to ensure proper disposal. Uncleaned packagings: Recommendation: Disposal must be made according to official regulations.				
14 Transport information Not a hazardous material for transportat	ntion.			
UN-Number DOT, IMDG, IATA	None			
UN proper shipping name DOT, IMDG, IATA	None			
Transport hazard class(es) DOT, ADR, IMDG, IATA Class	None			
Packing group DOT, IMDG, IATA	None			
Environmental hazards:	Not applicable.			
		(Contd. on page 4)		

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Special precautions for user       Not applicable.         Transport in bulk according to Annex II of MARPOLT378 and the IBC Code Not applicable.       Transport/Additional Information:         Not dangerous according to the above specifications.       DOT         Marine Pollutant (DOT):       No         Regulatory information       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)         Waard Dictograms       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)         Waard Dictograms       Safety, health and environmental regulations/legislation specific for the substance or mixture         GHS UT GHSOB       Signal word Warning         Waard Statements       Hard Dictograms         H317 May cause an allergic skin reaction.       H313 May cause damage to organs through prolonged or repeated exposure.         Precautionary statements       Wear product his glovers / protective downs / protective glovers / p	roduct name: (R)-(+)-Indoline-2-carboxylic acid				
Transport in bulk seconding to Annex II of MARPOLT3/T8 and the IBC Code Not applicable.         Transport/Additional information:       Not dangarous according to the above specifications.         Marine Pollutant (DOT):       No         Regulatory information       Second Seco		(Contd. of page			
Transport/Additional information:       Not dangerous according to the above specifications.         Dor Marine Pollutant (DOT):       No         Regulatory information       Safety, health and environmental regulations/legislation specific for the substance or mixture GMS label elements. The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Heard options         GHS In 2014 Elements. The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS) Heard options       Signal word Warning         GHS OF GHS 08       Signal word Warning       Heard Statements         Haard statements       Heard statements       Heard Statements         H317 May cause an allergic skin reaction.       H336 Stappected of danding in product non child.         H326 Stappected of danding in guest on skin.       Genetic Statements         H317 May cause damage to organs through prolonged or repeated exposure.       Hard Stappected of danding in eyes, on skin. or on clothing.         H317 May cause damage to organs through prolonged or several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.       The product is not listed in the U.S. Environmental Protection Agency. Toxic Substances to not listed.         Prog 65 - Development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product is not listed.         Prog 65 - Developmental acxicity, female Substance is not listed.       Hore optical skin orestatemental protectine soft listed.					
DOT       No         Regulatory information       Salety, health and environmental regulations/legislation specific for the substance or mixture         GMS label elements       The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         With and purceyrams       With and environmental regulations/legislation specific for the substance is not instrumed in accordance with 29 CFR 1910 (OSHA HCS)         With and purceyrams       With and environmental regulations/legislation specific for the substance or mixture         GMS label elements       The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         With and purceyrams       With an environmental regulations/legislation specific for the substance or mixture         The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)       Hitting the product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)         With a transmitting dower by company through prolonged or repeated exposure.       Preceditions of company through prolonged or repeated exposure.         Preceditional regulations       Intel Statements       Statements       Intel Statements         POS - Do not get in eyes, on skin, or on clothing.       Post-Post-Precedition Agency Toxic Substances Control Acc Lemical Substance Inventory. Use of this product is registing product must built bustance is not listed.         National regulations       Intel Statements       Statements       Intermental regulation State commercial purposes or in formulation stated					
Marine Pollutant (pOT):       No         Regulatory information       Salety, health and environmental regulations/legislation specific for the substance or mixture (PSI Slabel elements The provincemental regulations/legislation specific for the substance or mixture (PSI Slabel elements The provincemental regulations/legislation specific for the substance or mixture (PSI Slabel elements The provincemental regulations/legislation specific for the substance or mixture (PSI Slabel elements The provincements The provincemental provincements The provincements The provincements The provincemental Provincemental Provincements The provincemental Provincemental Provincements The provincemental Prov	•	Not dangerous according to the above specifications.			
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Signal word Warning Hazard statements H317 May cause an allergic skin reaction. H336 Suspected of damaging fertility or the unborn child. H337 May cause damage to organs through prolonged or repeated exposure. Precautionary statements Precautionary statements Profest Development only. This product must be used by or directly under the supervision of a technical ly upalified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, temate Substance is not listed. Prop 65 - Developmental toxicity, temate Substance is not listed. Prop 65 - Developmental toxicity, temate Substance is not listed. Information about limitation of use: For use only by technically qualified individuals. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulations (EC) No 1907/2006 (REACH) for the manufacturing, placing on a market and use must be observed. Annex XIV of the REACH Regulations (PC) No 1907/2006 (REACH) for the manufacturing, placing on a market and use must be observed. Annex XIV of the REACH Regulations 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. T	GHS label elements The product is classified and labeled in accordance with 29 CFR 1910 (OSHA HCS)				
H317 May cause an allergic skin reaction. H337 Suspected of damage to organs through prolonged or repeated exposure. H337 May cause damage to organs through prolonged or repeated exposure. H337 May cause damage to organs through prolonged or repeated exposure. Precautionary statements P260 Wear protective gloves / protective clothing. P305+P351+P380 IF IN EVES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. National regulations This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict to duart is not listed on the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict to duart is not listed on the lower of the commercial purposes or in formulations focily under the supervision of a technically qualified individual as defined by TSCA. This product is not listed in the lower of the chemical listings) Substance is not listed. Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity formale Substance is not listed. Prop 65 - Developmental toxicity, imale Substance is not listed. Prop 65 - Developmental toxicity, imale Substance is not listed. Prop 65 - Developmental toxicity is formal cubations Substance or Very High Concern (SVHC) according to the REACH Regulations (EC) No. 1907/2006. Substance is not listed. The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on imarket and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Other information to ensure proper use and protect the health and safety of employees. This information is furnished without warranty, and any use of the					
This product is not listed in the U.S. Environmental Protection Agency Toxic Substances Control Act Chemical Substance Inventory. Use of this product is restrict to research and development only. This product must be used by or directly under the supervision of a technically qualified individual as defined by TSCA. This product must not be used for commercial purposes or in formulations for commercial purposes. SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, Substance is not listed. Prop 65 - Developmental toxicity, meale Substance is not listed. Prop 65 - Developmental toxicity, male 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 Article 67 and Annex XVII of the Regulation (EC) No. 1907/2006 (REACH) for the manufacturing, placing on a market and use must be observed. Substance is not listed. Annex XVV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. <b>Other information</b> 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 i conformance with this Material Safety Data Sheet, or in combination with any other product or process, is the responsibility of the user. Department insuing SDS: Global Marketing Department Date of preparation / last revision 11/24/2015/ - Abbreviations and acronyms: RID. Reglement International Commernia. (AO-U: International International Marketing International Kin	Hazard statements         H317 May cause an allergic skin reaction.         H361 Suspected of damaging fertility or the unborn child.         H373 May cause damage to organs through prolonged or repeated         Precautionary statements         P261       Avoid breathing dust/fume/gas/mist/vapours/sp.         P280       Wear protective gloves / protective clothing.         P262       Do not get in eyes, on skin, or on clothing.         P305+P351+P338 IF IN EYES: Rinse cautiously with water for sev	ray.			
The conditions of restrictions according to Article 67 and Annex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation for use) Substance is not listed. Chemical safety assessment: A Chemical Safety Assessment has not been carried out. Other information 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 Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Reglement international Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ITA-DGR: Dangerous Goods Regulations by the "International Civil Aviation Organization" (ICAO)	This product is not listed in the U.S. Environmental Protection Age to research and development only. This product must be used by o product must not be used for commercial purposes or in formulatio SARA Section 313 (specific toxic chemical listings) Substance California Proposition 65 Prop 65 - Chemicals known to cause cancer Substance is not list Prop 65 - Developmental toxicity Substance is not listed. Prop 65 - Developmental toxicity, female Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Information about limitation of use: For use only by technically of	or directly under the supervision of a technically qualified individual as defined by TSCA. This ns for commercial purposes. is not listed. sted. gualified individuals.			
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 Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Reglement international Concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ITA-DGR: Dangerous Goods Regulations by the "International Air Transport Association" (IATA) ICAO: International Civil Aviation Organization ICAO: The chink Instructions by the "International Civil Aviation Organization" (ICAO)	The conditions of restrictions according to Article 67 and Ann market and use must be observed. Substance is not listed. Annex XIV of the REACH Regulations (requiring Authorisation	ex XVII of the Regulation (EC) No 1907/2006 (REACH) for the manufacturing, placing on the second second second a			
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IARC: International Agéncy foir Research on Cancer EPA: Environmental Protection Agency (USA)	Date of preparation / last revision 11/24/2015 / - Abbreviations and acronyms: RID: Rejement international concernant le transport des marchandises dangereuses pe IATA-DGR: Dangerous Goods Regulations by the "International Air Transport Associatio ICAO-11: Technical Instructions by the "International Civil Aviation Organization" (ICAO)	ar chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) n" (IATA)			
	IARC: International Agency for Research on Cancer EPA: Environmental Protection Agency (USA)				

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