





Product name: (S)-(+)-4-Penten-2-ol (Contd. of page 1) Information for doctor Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available. 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 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 Keep away from ignition sources Environmental precautions: Do not allow product to reach sewage system or any water course. Methods and material for containment and cleaning up: Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Prevention of secondary hazards: Keep away from ignition sources. 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: Protect against electrostatic charges. Fumes can combine with air to form an explosive mixture. Keep ignition sources away. 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. **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: The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. 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. Wash hands before breaks and at the end of work. Maintain an ergonomically appropriate working environment. Breathing equipment: Use suitable respirator when high concentrations are present. Recommended filter device for short term use: Use a respirator with multi-purpose combination (US) or type ABEK (EN 14387) as a backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government standards such as NIOSH (USA) or CEN (EL) CEN (EU). Protection of hands: Impervious gloves The selection of suitable 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: Safety glasses Body protection: Protective work clothing. 9 Physical and chemical properties Information on basic physical and chemical properties General Information Appearance: Form: iquid Odor: Not determined Odor threshold: Not determined pH-value: Not determined. Change in condition Melting point/Melting range: Boiling point/Boiling range: Not determined 115-116 °C (239-241 °F) Sublimation temperature / start: Not determined (Contd. on page 3)

Product n (S)-(+)-A-Ponton-2-01

Page 3/4 Printing date 08/29/2016 Revision date 08/26/2016 ٦

| Flash point: | (Contri | |
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| Flash point | | l. of page i |
| Flammability (solid, gaseous) Ignition temperature: Decomposition temperature: Auto igniting: | 30 °C (86 °F) Not determined. Not determined Not determined Not determined. | |
| Danger of explosion: Explosion limits: | Product is not explosive. However, formation of explosive air/vapor mixtures is possible. | |
| Lower: | Not determined | |
| Upper: Vapor pressure: | Not determined Not determined | |
| Density at 20 °C (68 °F): Relative density | 0.837 g/cm³ (6.985 lbs/gal) Not determined. | |
| Vapor density Evaporation rate | Not determined. Not determined. | |
| Solubility in / Miscibility with Water: | Not determined | |
| Partition coefficient (n-octanol/water Viscosity: | | |
| dynamic: kinematic: | Not determined. Not determined. | |
| Other information | No further relevant information available. | |
| Possibility of hazardous reactions R Conditions to avoid No further releval Incompatible materials: Oxidizing age | ant information available. | |
| Reproductive foxicity: No effects kno Specific target organ system toxicity Specific target organ system toxicity Aspiration hazard: No effects known. Subacute to chronic toxicity: No effe Additional toxicological information. | r classification: No data ise irritation se irritation known. ta on carcinogenic properties of this material is available from the EPA, IARC, NTP, OSHA or ACGIH. own. ty - repeated exposure: No effects known. ty - single exposure: No effects known. | |
| Carcinogenic categories OSHA-Ca (Occupational Safety & He | ealth Administration) Substance is not listed. | |
| OSHA-Ca (Occupational Safety & He 2 Ecological information Toxicity Aquatic toxicity: No further relevant in Persistence and degradability No fur Bioaccumulative potential No further Mobility in soil No further relevant info Additional ecological information: General notes: Do not allow undiluted product or large Avoid transfer into the environment. Results of PBT and vPvB assessment | information available. Irther relevant information available. r relevant information available. formation available. e quantities to reach ground water, water course or sewage system. | |
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| Signal word Warning Hazard statements H226 Flammable liquid and vapour. Precautionary statements P210 Keep away from heat/sparks/open flames/hot surfaces No smoking. P240 Ground/bond container and receiving equipment. P241 Use explosion-proof electrical/ventilating/lighting/equipment. P243 Use only non-sparking tools. P244 Use only non-sparking tools. P243 Use only non-sparking tools. P244 Use only non-sparking tools. P245 Store in a well-ventilated place. Keep cool. P501 Dispose of contents/container in accordance with local/regional/national/ir This product is not listed in the U.S. Environmental Protection Agency. Toxic Substances Conton to research and development only. This product must be used by or directly under the superv product must not be used for commercial purposes or in formulations for commercial purposes This product is not listed on the Canadian Domestic Substances Is (DSL) or the Canadian I SARA Section 313 (specific toxic chemical listings) Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - Developmental toxicity, male Substance is not listed. Prop 65 - | |
| information to ensure proper use and protect the health and safety of employees. This inform conformance with this Material Safety Data Sheet, or in combination with any other product o Department issuing SDS: Global Marketing Department Date of preparation / last revision 08/29/2016 / - Abbreviations and acronyms: ADR: Accord europeen sur le transport des marchandises dangereuses par Route (European Agreement concerning the In MODE: Internet Marking Code or Deparation Code | national regulations. Act Chemical Substance Inventory. Use of this product is restricted on of a technically qualified individual as defined by TSCA. This -Domestic Substances List (NDSL). 007/2006. Substance is not listed. C) No 1907/2006 (REACH) for the manufacturing, placing on the red. |
| InDec. International number of Dangerous Goods DOT: US Department of Transport Association (ATA: International Air Transport Association CAS: Chemical Abstracts Service (division of the American Chemical Society) HMIS: Hazardous Materials Identification System (USA) WHMIS: Workplace Hazardous Materials Information System (Canada) LCS0: Lethal concentration, 50 percent LDS0: Lethal cose, 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) Fiam. Lig. 3: Fiammable liquids, Hazard Category 3 | on is furnished without wairranty, and āny use of the product not in occess, is the responsibility of the user. ational Carriage of Dangerous Goods by Road) |
| | USA – |