**HAZARDS IDENTIFICATION** 2. 2.1 Classification of the substance or mixture Not a dangerous substance according to GHS. Not a hazardous substance or mixture according to EC-directives 67/548/EEC or 1999/45/EC. 2.2 Label elements Caution - substance not yet tested completely. 2.3 Other hazards - none **3**. **COMPOSITION/INFORMATION ON INGREDIENTS** 3.1 Substances (4R,5R)-2,2-Dimethyl-1,3-dioxolane-4,5-dicarboxylic acid dimethyl ester Synonyms Dimethyl (4R,5R)-2,2-dimethyl-1,3-dioxolane-4,5-dicarboxylate Formula C9H14O6 218,2 g/mol Molecular Weight Component Concentration (-)-Dimethyl 2,3-O-is opropylide ne-L-tartrate CAS-No. 37031-29-1 4. FIRST AID MEASURES Description of first aid measures 4.1 If inhale d If breathed in, move person into fresh air. If not breathing, give artificial respiration. In case of skin contact Wash off with soap and plenty of water. In case of eye contact Flush eyes with water as a precaution. If swallowed Never give anything by mouth to an unconscious person. Rinse mouth with water. 4.2 Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. 4.3 Indication of immediate medical attention and special treatment needed no data available **5.** FIRE-FIGHTING MEASURES **5.1** Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. **5.2** Special hazards arising from the substance or mixture Carbon oxides **Precautions for fire-fighters** 5.3 Wear self contained breathing apparatus for fire fighting if necessary. **5.4 Further information** no data available **6.** ACCIDENTAL RELEASE MEASURES 6.1 Personal precautions, protective equipment and emergency procedures Avoid breathing vapors, mist or gas. **6.2 Environmental precautions** Do not let product enter drains. Methods and materials for containment and cleaning up 6.3 Keep in suitable, closed containers for disposal. **6.4** Reference to other sections For disposal see section 13. 7. HANDLING AND STORAGE 7.1 **Precautions for safe handling** Normal measures for preventive fire protection. Conditions for safe storage, including any incompatibilities 7.2 Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Moisture sensitive. Exposure to moisture. 7.3 Specific end uses no data available 8. EXPOSURE CONTROLS/PERSONAL PROTECTION 8.1 **Control parameters** Components with workplace control parameters 8.2 **Exposure controls Appropriate engineering controls** General industrial hygiene practice. Personal protective equipment Eye/face protection Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. **Body Protection** impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace. **Respiratory protection** Respiratory protection not required. For nuisance exposures use type OV/AG (US) or type ABEK (EU EN 14387) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU). 9. PHYSICAL AND CHEMICAL PROPERTIES 9.1 Information on basic physical and chemical properties Form: clear, liquid Appearance Colour: colourless Odour no data available b) Odour Threshold no data available c) d) pН no data available e) Melting/freezing point no data available Initial boiling point and 150 °C at 25 hPa f) boiling range Flash point 110 °C - closed cup Evaporation rate no data available h) i) Flammability (solid, gas) no data available Upper/lower j) no data available flammability or explosive limits Vapour pressure no data available Vapour density no data available 1,19 g/mL at 20 °C m) Relative density Water solubility no data available Partition coefficient: nno data available octanol/water Autoignition no data available p) temperature Decomposition no data available temperature Viscosity no data available Explosive properties no data available s) no data available Oxidizing properties 9.2 Other safety information no data available **10.** STABILITY AND REACTIVITY 10.1 Reactivity no data available 10.2 **Chemical stability** no data available Possibility of hazardous reactions 10.3 no data available Conditions to avoid 10.4 no data available 10.5 **Incompatible materials** Strong oxidizing agents 10.6 Hazardous decomposition products Other decomposition products - no data available 11. TOXICOLOGICAL INFORMATION **Information on toxicological effects** 11.1 **Acute toxicity** no data available Skin corrosion/irritation no data available Serious eye damage/eye irritation no data available Respiratory or skin sensitization no data available Germ cell mutagenicity no data available Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. Reproductive toxicity no data available Specific target organ toxicity - single exposure no data available **Specific target organ toxicity - repeated exposure** no data available **Aspiration hazard** no data available Potential health effects Inhalation May be harmful if inhaled. May cause respiratory tract irritation. Ingestion May be harmful if swallowed. Skin May be harmful if absorbed through skin. May cause skin irritation. May cause eye irritation. Eyes Signs and Symptoms of Exposure To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. **Additional Information** RTECS: Not available **12. ECOLOGICAL INFORMATION** 12.1 **Toxicity** no data available 12.2 Persistence and degradability no data available 12.3 **Bioaccumulative potential** no data available 12.4 Mobility in soil no data available 12.5 Results of PBT and vPvB assessment no data available **12.6** Other adverse effects no data available **13. DISPOSAL CONSIDERATIONS** 13.1 Waste treatment methods Product Offer surplus and non-recyclable solutions to a licensed disposal company. Contaminated packaging Dispose of as unused product. **14.** TRANSPORT INFORMATION 14.1 **UN-Number** ADR/RID: -IATA: -IMDG: -14.2 **UN proper shipping name** ADR/RID: Not dangerous goods IMDG: Not dangerous goods IATA: Not dangerous goods 14.3 Transport hazard class(es) ADR/RID: -IMDG: -IATA: -14.4 Packaging group IATA: -ADR/RID: -IMDG: -14.5 **Environmental hazards** ADR/RID: no IMDG Marine pollutant: no IATA: no 14.6 Special precautions for users no data available **15.** REGULATORY INFORMATION This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available 15.2 **Chemical Safety Assessment** no data available **16. OTHER INFORMATION Further information** For R&D use only. Not for drug, household or other uses. WARRANTY: The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Lookchem shall not be held liable www.lookchem.com for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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**Product identifiers** 

Product name

Identified uses

CAS-No.

IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Laboratory chemicals, Manufacture of substances

37031-29-1

Relevant identified uses of the substance or mixture and uses advised against

( – )-Dimethyl 2,3 - O -isopropylidene-L-tartrate