



Sodium Dodecyl Sulfate (SDS), Dust-Free™ Ultrapure PRODUCT DATA SHEET

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Product Name:	Sodium Dodecyl Sulfate (SDS), Dust-Free™ Ultrapure
Product Number:	S062
CAS Number:	151-21-3
Molecular Formula:	$C_{12}H_{25}NaSO_4$
Molecular Weight:	288.38
Form:	Pellets
Appearance:	White rod
Solubility:	1% EtOH: Clear and colorless 10% Water: clear and colorless
Water Content (Karl Fischer):	No more than 2.0%
Absorbance:	20% in H ₂ O: 280nm: ≤0.28, 410nm: ≤0.1
Storage Conditions:	≤30°C
Description:	<p>SDS (Sodium dodecyl sulfate) coats proteins and DNA giving them a negative charge which allows travel through an electrical field towards the anode. TOKU-E SDS, Dust-Free™ Ultrapure is ≥99.5% pure.</p> <p>TOKU-E Dust-Free™ SDS is an innovative pellet form of SDS specifically designed to prevent aerosolized dust when preparing SDS solutions. Dust inhalation from standard grade SDS can lead to coughing, shortness of breath, and nasal passage irritation which can be especially harmful to those with respiratory complications. By using Dust-Free™ SDS, the inevitable dust-related issues are essentially eliminated. In addition, our R&D team has shown Dust-Free™ SDS dissolves 50% faster than standard powder SDS.</p> <p>TOKU-E also manufactures and supplies <u>ultrapure, powder SDS</u>.</p> <p>This product is considered a dangerous good. Quantities above 1 g may be subject to additional shipping fees. Please contact us for specific questions.</p>
Mechanism of Action:	Sodium dodecyl sulfate works by denaturing proteins but does so without breaking peptide bonds. Once proteins are denatured, they carry the highly negative charge they acquired from the SDS, changing their shape and making them more suitable to run through electrophoresis gels.
Microbiology Applications	Sodium dodecyl sulfate can be used as a selective agent/supplement to inhibit the growth of non-coliform organisms.
Electrophoresis Applications	Dust-Free SDS is used in several electrophoresis applications including SDS-PAGE gel construction, running buffers, and DNA and protein preparation and denaturing.

If you need any help, contact us: info@toku-e.com. Find more information on: www.toku-e.com/