

Doc. # **SLES-TDS-09**Rev. # **00**Effective Date: **01.01.2023****TITLE: TECHNICAL DATA SHEET (TDS) FOR SLES**

SECTION ①: PRODUCT INFORMATION				
Name	CAS #	Chemical Formula	Boiling Point	Hazard Pictogram
Sodium Lauryl Ether Sulphate	1335-72-4 68891-38-3	$\text{CH}_3(\text{CH}_2)_{10}\text{CH}_2(\text{OCH}_2\text{CH}_2)_n\text{OSO}_3\text{Na}$ Where n is specified in the name	100°C	

SECTION ②: SPECIFICATIONS							
Product (M.Wt.)	Appearance	Anionic Active Total %	Color (5% Solution) /Hazen	pH	Sodium Sulphate %	Free Oil/ Unsulfated alcohol %	1,4 Dioxane ppm
SLES-1 (336-341)	White or slight yellow paste gel	70.0 ± 1.5	≤ 15.0	4 % Solution 6.5 – 10.0	≤ 1.0	≤ 2.5	≤ 30.0
SLES-2 (380-385)	White or slight yellow paste gel	70.0 ± 2.0	≤ 15.0	2 % Solution 6.5 – 10.0	≤ 1.0	≤ 2.5	≤ 30.0
SLES-3 (428-433)	Slight Yellow Viscous Liquid	27.0 – 29.0	Trans% ≥ 83.0	Alkali as NaOH 0.190 – 0.320 %	≤ 0.60	0.9 ± 0.2	≤ 50.0

**SECTION ③: APPLICATIONS**

SLES is an anionic surfactant with excellent performance. It has good cleaning, emulsifying, wetting, densifying and foaming performance, with good solvency wide compatibility, strong resistance to hard water, high biodegradation, and low irritation.

- It is widely used in liquid detergent, shampoos, toothpaste, body wash, bubble bath, cosmetics and hand wash.
- It can be used in washing powder and laundry detergent.
- It is used in agriculture, textile, printing and dyeing.

**SECTION ④: HAZARD CLASSIFICATION**

SLES is classified in Class 1, 2 & 3 on the basis of its main hazardous properties.

Risk Phrases: R 38 - Irritating to skin.

R 41 - Risk of serious damage to eyes.

All further measures to be taken related to transportation can be determined in the knowledge of its hazard classification.

**SECTION ⑤: HANDLING AND SAFETY MEASURES**

- If swallowed rinse mouth, then drink 1 - 2 glass of water. Do not induce vomiting.
- If in eyes Immediately flush eyes with running water for several minutes, holding eyelids open and occasionally lifting the upper and lower lids. Continue rinsing for at least 15 minutes.
- If SLES falls on skin remove contaminated clothing and shoes immediately. Flush skin with running water for at least 15 minutes. In case of gross contamination, drench contaminated clothing and skin with plenty of water before removing clothes, or wear gloves.
- If inhaled then remove victim to fresh air and keep at rest in a position comfortable for breathing. Apply resuscitation if victim is not breathing; Administer oxygen if breathing is difficult.
- Containers may explode when heated. Use dry chemical, Carbon dioxide (CO<sub>2</sub>), foam or water spray for extinction. Do not use water jet.
- Avoid dispersal of spilled material, runoff contact with soil, waterways, drains and sewers.

**SECTION ⑥: PACKING AND TRANSPORT INFORMATION**

SLES (28%) is delivered in stainless steel, mild steel tanker. SLES (70%) is also available in 160 KG HDPE drums.