

	<i>Product Focus • Customer Commitment • Performance Flexibility</i>	
	<b>NAXCAT® TSA-65W</b>	<b>Product Data Sheet</b>
<b>TOLUENESULFONIC ACID in Water</b>		

**Description:** Catexel Nease LLC manufactures a wide range of aromatic sulfonic acids. Aromatic sulfonic acids are made by sulfonating aromatic compounds with sulfuric acid, SO<sub>3</sub>, or Oleum. They are comparable in strength to mineral acids such as sulfuric acid, but are especially suitable for organic reactions where an inorganic, mineral acid could cause charring, oxidation, or an unwanted chemical reaction.

**CAS #**  
Mixture

NAXCAT® TSA-65W is a 65% active toluenesulfonic acid diluted in water. With lower viscosity than higher concentrated TSA, it is designed to be fluid for ease of handling. TSA is the strongest of Catexel Nease LLC's organic acids.

<b>Typical Properties:</b>	Appearance	Amber to Brown Liquid
	pH	< 1
	Specific Gravity @ 25°C	1.2
	Flash Point, °F	> 200
	Molecular weight	172
	Vapor Pressure	4.10 x 10 <sup>-6</sup> mm HG @ 25°C (TSA Calculated)
	Solubility in Water	Soluble
	Crystallization range, °C	< -5

<b>Product Specifications:</b>	<b>Property</b>	<b>Specification</b>
	Active, %	64.0 – 66.0
	Hydrocarbons, %	0.7 max.
	Water, %	35.0 max.
	Sulfuric Acid, %	1.5 max.
	Water Insolubles, %	1.0 max.

**Applications:** Hand Cleaners, Industrial Cleaners, Metal Prep and Working, Textile Dye Manufacturing, Polymers and Coatings

**Storage and Handling:** Keep container tightly closed when not in use. Store in cool, well ventilated area. Steel is corroded by sulfonic acids and is not recommended for prolonged storage at elevated temperatures since iron and color contamination could result. Dilution with water may increase corrosivity of the acid. Material will absorb moisture.

**Availability:** Bulk, 550 pound drums, 2,350 pound totes

**Chemical Control Law Status:** This product is in compliance with the inventory listing requirements of the chemical control laws in the follow countries: U.S.A., Europe, and Japan.

**Transport Regulations**

Shipping Description: Aryl sulfonic acids, liquid with not more than 5 percent free sulfuric acid (Toluenesulfonic acid)  
Hazard Class: 8 ID Number: UN2586 Packing Group: III Label: Corrosive

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Limited Warranty

The products sold by Catexel Nease LLC ("Seller") shall conform to the Seller's current published specifications. Seller makes no other warranty, express or implied, including warranty of merchantability or fitness for particular use, whether product is used singly or in combination with other substances or in any process. Nothing contained herein should be considered as a recommendation for use of any product or method in violation of any valid patent now effective or which may issue hereafter. Prior testing for fitness for use and compliance with all applicable statutes by the user is a strict condition on the sale of any and all of Seller's products.