

SAFETY DATA SHEET

According to Regulation (EC) No. 1907/2006

**PTSA (KETJENFLEX 6)**

1. IDENTIFICATION OF THE SUBSTANCE OR PREPARATION AND THE COMPANY/UNDERTAKING

<b>Product label name</b> p-Toluenesulfonamide	
<b>Supplier</b> Axcentive SARL Chemin de Champouse Quartier Violesi 13320 Bouc Bel Air France Tel.: +33 442 694 090 Fax : +33 442 694 099	
<b>E-mail address of person responsible for safety data sheet</b> info@axcentive.com	
<b>Emergency telephone</b> T +31570679211 F +31570679801 AkzoNobel Chemicals-Deventer-NL	
<b>Relevant identified uses of the substance or mixture</b> Chemical intermediate	
<b>Date of last issue / Revision number</b> 2010/12/13 / 2.00	

2. HAZARDS IDENTIFICATION

Not classified as hazardous according to the EEC Dangerous Substance Directive and Dangerous Preparation Directive. Not classified as hazardous according to the European regulation on classification, labelling and packaging of substances and mixtures (CLP).
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<b>GHS classification</b>	
<b>Description</b>	<b>Applicable</b>
GHS classification	none

<b>Pictogram(s) (GHS)</b>
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<b>Signal word/Hazard statement(s) GHS</b>	
<b>Code</b>	<b>Description</b>
none	none

3. COMPOSITION/INFORMATION ON INGREDIENTS

This product is to be considered as a substance in conformance to EC directives
Information on hazardous ingredients
<b>Chemical description</b> p-Toluenesulfonamide

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Composition / information on ingredients			
Number	% w/w	CAS-number	Chemical name
1	100	000070-55-3	p-Toluenesulfonamide

Number	REACH Registration number	EC-number	Classification according to 1272/2008 as amended			Classification according to 67/548/EEC as amended
1		200-741-1				none

4. FIRST AID MEASURES

<b>Most important symptoms and effects</b> No typical symptoms and effects known.	
<b>Description of first aid measures</b>	
<b>General</b>	In all cases of doubt, or when symptoms persist, seek medical attention.
<b>Inhalation</b>	Move to fresh air, rest, half upright position, loosen clothing. Oxygen or artificial respiration if there is difficulty in breathing. Seek medical advice after significant exposure.
<b>Skin</b>	Wash immediately with soap and water.
<b>Eye</b>	Rinse thoroughly with plenty of water. Eyelids should be held away from the eyeball to ensure thorough rinsing. Seek medical advice if irritation develops.
<b>Ingestion</b>	Rinse mouth, give water to drink.
<b>Indication of any immediate medical attention and special treatment needed</b> No additional information available.	

5. FIRE-FIGHTING MEASURES

<b>Extinguishing media</b> foam, powder, waterspray, Carbon dioxide.
<b>Unsuitable extinguishing media</b> none known.
<b>Hazardous decomposition / combustion products</b> Emits toxic fumes under fire conditions. (Ammonia, nitrous gases (NOx), sulphur dioxide (SO2))
<b>Protective equipment</b> Wear self contained breathing apparatus.
<b>Fire and explosion hazard</b> In case of fire and/or explosion do not breathe fumes.

6. ACCIDENTAL RELEASE MEASURES

<b>Personal precautions</b> For personal protection see Section 8.
<b>Environmental precautions</b> Avoid contact with TMB-solution.
<b>Methods and material for containment and cleaning up</b> Collect as much as possible in a clean container for (preferable) reuse or disposal. Flush remainder with water.

7. HANDLING AND STORAGE

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<b>Precautions for safe handling</b> The usual precautions for handling chemicals should be observed.
<b>Fire and explosion prevention</b> not relevant.
<b>Conditions for safe storage</b> To maintain quality: Keep container tightly closed and dry.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

<b>Control parameters</b> The usual precautionary measures for handling chemicals should be observed.
<b>Personal protection</b>
<b>Respiratory</b> No specific recommendations.
<b>Hand</b> Wear suitable gloves.
<b>Eye</b> Wear safety goggles.
<b>Skin and body</b> No specific recommendations.
<b>Other information</b> The usual precautions for handling chemicals should be observed.

In this country no exposure limit has been established

9. PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b> crystalline powder
<b>Colour</b> white
<b>Odour</b> almost odourless
<b>Boiling point/range</b> 221 °C (1.33 kPa)
<b>Melting point/freezing point</b> approx. 137 °C
<b>Flash point</b> 202 °C (Pensky-Martens, closed cup)
<b>Flammability</b> not determined
<b>Explosive properties</b> not determined
<b>Oxidising properties</b> not determined
<b>Vapour pressure</b> 352 Pa (189 °C)
<b>Density</b> not determined
<b>Bulk density</b> not determined

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<b>Solubility in water</b> 3.2 g/l (25 °C)
<b>Solubility in other solvents</b> not determined
<b>pH value</b> neutral
<b>Partition coefficient n-octanol/water</b> not determined
<b>Relative vapour density (air=1)</b> not relevant
<b>Viscosity</b> not applicable
<b>Autoignition temperature</b> not determined
<b>Upper/lower flammability or explosive limits</b> not determined

10. STABILITY AND REACTIVITY

<b>Conditions to avoid</b> Reacts with acids with formation of heat.
<b>Chemical stability</b> Stable under recommended storage and handling conditions (see section 7).
<b>Incompatible materials</b> acids.
<b>Hazardous decomposition products</b> See also Section 5.

11. TOXICOLOGICAL INFORMATION

<b>p-Toluenesulfonamide</b>
<b>Acute toxicity</b>
<b>Oral LD50</b> Rat LD50: 2330 mg/kg (TNO 1978)
<b>Dermal LD50</b> No data available
<b>Inhalation LC50</b> No data available
<b>Germ cell mutagenicity</b> Overall: not genotoxic.
<b>Irritation</b>
<b>Skin</b> in vivo rabbit: 0.5 g, 100% for 24 hours, occlusive: slightly irritating (TNO 1978)
<b>Eye</b> in vivo rabbit: 0.1 g, 100% slightly irritating (TNO 1978)
<b>Respiratory</b> Unlikely: PTSA has a very low vapour pressure. Substance is not irritating to skin or eyes.
<b>Sensitization</b> No data available.

12. ECOLOGICAL INFORMATION

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<b>p-Toluenesulfonamide</b>	
<b>Ecotoxicity</b>	
<b>fish</b>	fish 96h-LC50 > or = 100 mg/l (ABC Laboratories, 1983).
<b>daphnia</b>	daphnia 48h-EC50 > 1000 mg/l
<b>algae</b>	algae 144h-EC50 = 80 mg/l (ABC Laboratories, 1983).
<b>Fate</b>	
<b>Degradation Biotic</b> Readily biodegradable (Notox, 2010)	
<b>Bioaccumulation</b> Log Pow: 0.82 (Estimation)	

13. DISPOSAL CONSIDERATIONS

<b>Product</b>	Please refer to your specific industry in the European Waste Catalogue. According to local regulations (most probably controlled incineration).
<b>Contaminated packaging</b>	According to local regulations.

14. TRANSPORT INFORMATION

<i>Land transport</i>	
<b>Transport hazard class</b>	not restricted
<b>Classification Code</b>	not relevant / not relevant
<b>RID class</b>	not restricted
<b>Packing group</b>	not relevant / not relevant
<b>Hazard Identification No.</b>	none
<b>Substance Identification No.</b>	none
<b>UN number</b>	none
<b>Proper Shipping Name</b>	not relevant

<i>Sea transport (IMO / IMDG-code)</i>	
<b>Transport hazard class</b>	not relevant
<b>Packing group</b>	none
<b>UN number</b>	none
<b>EMS</b>	not relevant

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<b>Marine pollutant</b> no
<b>Proper Shipping Name</b> not relevant

<i>Air transport (ICAO-TI / IATA-DGR)</i>
<b>UN number</b> not restricted
<b>Packing group</b> not restricted
<b>Proper Shipping Name</b> not relevant
<b>Other information</b> not restricted

15. REGULATORY INFORMATION

<b>Product label name</b> p-Toluenesulfonamide
<b>Labelling according to EC directives</b>
<b>EC-number</b> See section 3

<b>R(isk) phrase(s) (EU classification)</b>	
<b>Code</b>	<b>Description</b>
none	none

<b>Classification according to 67/548/EC as ammended</b>	
NONE (NONE)	

<b>German Water Hazard Class (WGK)</b> 1 (VwVwS Anhang 2, Kenn-Nr. 1508)
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16. OTHER INFORMATION

<b>Relevant hazard statements</b>		
<b>Chemical name</b>	<b>Hazard statement(s) (GHS-classification)</b>	

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R-pharse information		
Chemical name	R(isk) phrase(s) (EU classification)	
p-Toluenesulfonamide	none	none

History
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<b>Composed by</b> Dr. B. Weuste P. van Lenthe
<b>Changes were made in section</b> 1 (Trade name)
<small>This information only concerns the above mentioned product and does not need to be valid if used with other product(s) or in any process. The information is to our best present knowledge correct and complete and is given in good faith but without warranty. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.</small>