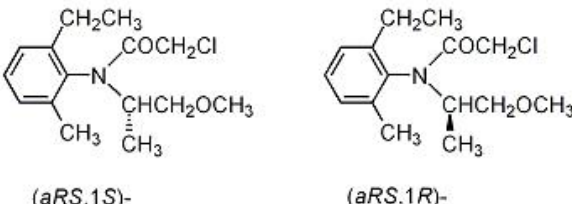


TECHNICAL DATA SHEET OF

S-metolachlor 960 G/L EC

Chemistry identity	
Common name	S-metolachlor 960 g/L EC
IUPAC name	A mixture of (aRS,1S)-2-chloro-6'-ethyl-N-(2-methoxy-1-methylethyl)aceto-o-toluidide and (aRS,1R)-2-chloro-6'-ethyl-N-(2-methoxy-1-methylethyl)aceto-o-toluidide in the proportion 80–100% to 20–0%
CAS No	87392-12-9
Formula structure	 <p>The image shows two chemical structures side-by-side. The left structure is labeled (aRS,1S)- and the right structure is labeled (aRS,1R)-. Both structures consist of a benzene ring with a methyl group at the 2-position and a 1-methylethyl group at the 6-position. The nitrogen atom of the 1-methylethyl group is also bonded to a 2-chloroethyl group and a 2-methoxyethyl group. The difference between the two structures is the stereochemistry at the chiral center of the 1-methylethyl group.</p>
Physical and chemical properties	
Appearance	Light yellow to dark brown
Content	960 g/L (w/v)
pH	4.0~8.0
Density	NA
Solubility in water	Emulsifiable in water
Mammalian toxicity	
Acute oral	LD ₅₀ > 2000 mg/kg
Acute dermal	LD ₅₀ for rats > 2000 mg/kg
Acute inhalation	LC ₅₀ (4 h) for rats > 2.0 mg/L
Environment fate	<p>Animals Rapidly and efficiently absorbed, fairly uniformly distributed and rapidly excreted in urine and faeces (EU Rev. Rep.). Rapidly oxidised by rat liver oxygenases via dechlorination, O-demethylation and side-chain oxidation; conjugation by glutathione S-transferases. Plants Metabolism involves dechlorination and conjugation to glutathione S-transferases, followed by further degradation to polar, water-soluble, non-volatile metabolites. Soil/Environment In aerobic soils, dissipates rapidly due to microbial activity, mainly by degradation to two major metabolites (oxanilic and sulfonic acids), the formation of non-extractable residues (3.5–44%) and its mineralisation to CO₂ (3–30%). Geomean DT₅₀ (field) 30 d (6–49 d, 12 soil sites); DT₉₀ (field) 36–165 d (12 soils). Adsorption (15 soils, pH 3.4–8.0, o.c. 0.2–19.8%), mean K_{Foc} 189 (61–369 l/kg), K_F 6.4 (0.3–44.8 l/kg) (15 soils, pH 3.4–8.0, o.c. 0.2–19.8%). In water-sediment systems, S-metolachlor dissipates with a DT₅₀ of 42–53 d in the whole system.</p>



SHANGHAI BOSMAN INDUSTRIAL CO., LTD.

Add: Room1804, No.1611, North Sichuan Road, Hongkou District, Shanghai, P.R. China.

Tel: +86 21 63065878 | **Fax:** +86 21 63065878 | **E-mail:** info@bosmangroup.com

Website: www.bosmanagrochem.net

Handling and storage	<p>Handling: Safe work practices are recommended. Avoid contact with eyes and skin. When opening the container and preparing spray wear appropriate PPE (refer Section 8). Do not spray under high wind conditions.</p> <p>Storage: 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.</p>
Package	200L drum or customized package