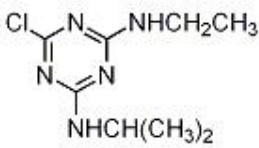
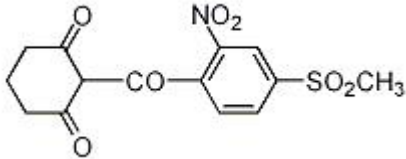


TECHNICAL DATA SHEET OF Atrazine + Mesotrione 55% SC

Chemistry identity	
Chemical name	Atrazine + Mesotrione 55% SC
CAS No	Atrazine: 1912-24-9 Mesotrione: 104206-82-8
Structure formula	<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;">  <p>Atrazine</p> </div> <div style="text-align: center;">  <p>Mesotrione</p> </div> </div>
Physical and chemical properties	
Appearance	Liquid
Content	Atrazine: 50% , Mesotrione: 5%
pH	6.0-9.0
Solubility	Suspension in water
Mammalian toxicity	
Acute oral	LD ₅₀ (rat) >2000 mg/kg
Acute dermal	LD ₅₀ (rat) >2000 mg/kg
Acute inhalation	LC ₅₀ (rat) >2.0 mg/L
Environment fate	
Degradation	<p>Atrazine:</p> <p>Animals In mammals, following oral administration, atrazine is rapidly and completely metabolised, primarily by oxidative dealkylation of the amino groups, and by reaction of the chlorine atom with endogenous thiols. Diaminochlorotriazine is the main primary metabolite, which readily conjugates with glutathione. More than 50% of the dose is eliminated in the urine and around 33% in the faeces within 24 hours. Plants In tolerant plants, atrazine is readily metabolised to hydroxyatrazine and amino acid conjugates, with further decomposition of hydroxyatrazine by degradation of the side-chains and hydrolysis of the resulting amino acids on the ring, together with evolution of CO₂. In sensitive plants, unaltered atrazine accumulates, leading to chlorosis and death. Soil/Environment Main metabolites under all conditions are desethylatrazine and hydroxyatrazine. Field DT₅₀ 16-1174d (median 38.5 d), the longer values being from cold or dry conditions. In water/sediment system DT₅₀ 14-20 d in the water and DT₅₀ 35-80 in the whole system. DT₅₀ under groundwater conditions 105->200 d, depending on test system. K_d 0.2-18 ml/g, K_{oc} 39-173 ml/g; desalkylated metabolites had values similar to those of atrazine (K_d 0.2-8.6 ml/g) whereas hydroxyatrazine (K_d 1.6-390) was much more</p>

	<p>strongly adsorbed.</p> <p>Mesotrione :</p> <p>Key metabolites in animals, plants and soil include MNBA [4-(methylsulfonyl)-2-nitrobenzoic acid] and AMBA [2-amino-4-(methylsulfonyl) benzoic acid]. Animals Extensively absorbed (c. 70% in 72 h), widely distributed and excreted (up to 70% in 72 h), mainly via urine. Limited metabolism occurs, by hydroxylation. Soil/Environment In aerobic soil, dissipates rapidly, mainly due to microbial activity, and is extensively mineralised (38–81% after 120 d). In the field, rapidly dissipated with a median DT₅₀ (field) 4 d (2–14 d, 6 first order, 24 sites); Degradation is faster at higher pH values. Adsorption of mesotrione is inversely correlated with pH and directly with soil organic carbon. K_{Foc} 19–170 (seven 8 soils, pH 5.1–8.2; o.c. 0.53–3.31%). In aquatic systems, mesotrione rapidly dissipates mainly via the formation of non-extractable residues (65–74% after 101 d) with a DT₅₀ of 3.9–6.5 d in the whole system.</p>
Handling and storage	
Handling and Storage	<p>Handling: KEEP OUT OF REACH OF CHILDREN. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Avoid breathing vapours or spray mist. Wear appropriate protective clothing and equipment (see Section 8). After work, rinse gloves and remove protective equipment, and wash hands thoroughly with soap and water after handling, and before eating, tobacco use, drinking, applying cosmetics or using the toilet. Wash contaminated clothing before re-use and separate from household laundry. Keep containers closed when not in use. Keep product, wash or rinse water, and contaminated materials out of water, and away from access by animals, birds or unauthorized people.</p> <p>Storage: Store in original container only in a well-ventilated, cool, dry, secure area. Protect from heat, sparks and flame. Do not expose sealed containers to temperatures above 40 °C. Keep separate from other products to prevent cross contamination. Rotate stock. Clean up spilled material immediately.</p>
Package	200L drum or customized package