

SAFETY DATA SHEET



eChem (Australia) Pty Ltd
Level 4, Lantos Place, 80 Stamford Road,
Indooroopilly, Qld, 4068
Phone: 1300 781 649
Fax: 1300 781 650

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Emergency Contact:
1800 033 111

SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

Product Name: **eChem S-Metol 960 Herbicide**

Full Product Name: eChem S-Metol 960 Herbicide.
Other Names: S-Metolachlor. Group K Herbicide.
Use: An agricultural Herbicide for control of certain weeds in crops.
Company: eChem (Australia) Pty Ltd.
Address: Level 4, Lantos Place, 80 Stamford Road, Indooroopilly, Qld, 4068.
ACN/ABN: 089 133 095.
Telephone Number: 1300 781 649 **Fax Number:** 1300 781 650
Emergency Contact: 1800 033 111

SECTION 2 HAZARDS IDENTIFICATION

**Classified as hazardous according to criteria of Safe Work Australia.
Not classified as a Dangerous Good according to the ADG Code.
Combustible Liquid (C1).**

Globally Harmonised System (GHS) classification of the substance/mixture:

Sensitization - Skin – Category 1, 1A, 1B.
Flammable Liquids – Category 4.

Signal Word: WARNING.

Hazard statements:

H317 May cause an allergic skin reaction.
H227 Combustible liquid.

Precautionary Statements:

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces: — No smoking.
P261 Avoid breathing mist, vapours or spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response:

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P321 Specific treatment (see Safety Directions on the product label).
P333 + P313 If skin irritation or rash occurs: Get medical advice/attention.
P363 Wash contaminated clothing before reuse.
P370 + P378 In case of fire: Use carbon dioxide, foam (alcohol-resistant) or dry agent for extinction.

Storage and Disposal:

P501 Dispose of contents/container in accordance with national regulations.
P403 + P235 Store in a well-ventilated place. Keep cool.

SECTION 2 HAZARDS IDENTIFICATION (Continued)

Pictogram:

**SECTION 3 COMPOSITION/INFORMATION ON INGREDIENTS****Ingredients:**

<i>CHEMICAL</i>	<i>CAS NUMBER</i>	<i>PROPORTION</i>
S-Metolachlor	51218-45-2	960 g/L
Other ingredients determined not to be hazardous		Balance

SECTION 4 FIRST AID MEASURES**FIRST AID**

Ingestion: If poisoning occurs, contact a doctor or Poisons Information Centre (Phone Australia 13 11 26). If swallowed do NOT induce vomiting. Rinse any residual product from mouth and lips. Give water to drink and seek medical help.

Eye contact: Immediately hold eyes open and flood with clean water until chemical is removed. Ensure irrigation under eyelids by occasionally lifting them. Do not try to remove contact lenses unless trained. If irritation occurs and persists see a doctor.

Skin contact: Remove contaminated clothing and launder before re-use. Wash skin with soap and water. If irritation occurs and persists see a doctor.

Inhalation: Remove to fresh air and observe until recovered. Seek medical advice if effects persist more than about 30 minutes.

Advice to Doctor: Treat symptomatically.

SECTION 5 FIRE FIGHTING MEASURES

Specific Hazard: Combustible liquid (C1).

Extinguishing media: Extinguish fire using carbon dioxide, foam (alcohol-resistant) or dry agent. If not available, use waterfog or fine water spray but ensure all runoff is contained. DO NOT use a solid water stream as it may scatter and spread the fire.

Hazards from combustion products: Product is a combustible liquid (C1) and when burnt will produce toxic and noxious fumes. Will not polymerise.

Precautions for fire-fighters and special protective equipment: Isolate fire area. Evacuate downwind residents. Wear full protective clothing and self contained breathing apparatus. Do not breathe smoke or vapours generated. Evacuate personnel to a safe area.

SECTION 6 ACCIDENTAL RELEASE MEASURES

Emergency procedures: Isolate and post spill area. Keep out unprotected persons and animals. Wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. Large spills should be dyked. Absorb spilled material with absorbent material such as sand, clay or cat litter. Vacuum, shovel or pump spilled material into an approved container and dispose of waste as per the requirements of Local or State Waste Management Authorities. Keep material out of streams and sewers.

Material and methods for containment and cleanup procedures: To clean spill area, tools and equipment, wash with a solution of soap, water and acetic acid/vinegar. Follow this with a neutralisation step of washing the area with a bleach or caustic soda ash solution. Finally, wash with a strong soap and water solution. Absorb, as above, any excess liquid and add both solutions to the drums of waste already collected. Do NOT allow spilled product or wash solution to enter sewers, drains, dams, creeks or any other waterways.

SECTION 7 HANDLING AND STORAGE

Precautions for safe Handling: No smoking, eating or drinking should be allowed where material is used or stored. Will damage the eyes. Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

Conditions for safe Storage: Store in the closed, original container in a cool, well-ventilated area. DO NOT store for prolonged periods in direct sunlight. This product is a Schedule 5 Poison (S5) and must be stored, transported and sold in accordance with the relevant Health Department regulations. Not classified as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods.

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION**National Exposure Standards:**

Exposure guidelines have not been established for this product by Safe Work Australia.

Biological Limit Values:

No biological limit allocated.

Engineering controls:

Keep containers closed when not in use. No special engineering controls are required, however make sure that the work environment remains clean and that vapours and mists are minimised.

Personal Protective Equipment (PPE):

General: Sensitive workers should use protective clothing. When opening the container and preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. When using the prepared spray wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and face shield or goggles. If product in eyes, wash it out immediately with water. After use and before eating, drinking or smoking, wash hands, arms and face thoroughly with soap and water. After each day's use, wash gloves, face shield or goggles and contaminated clothing.

Personal Hygiene: Will damage the eyes. Avoid contact with eyes and skin. Repeated exposure may cause allergic disorders. Clean water should be available for washing in case of eye or skin contamination. Wash skin before eating, drinking or smoking. Shower at the end of the workday.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Yellowish to brown clear liquid.
Odour:	Characteristic.
Boiling point:	No data available.
Freezing point:	No data available.
Solubility in Water:	Emulsifies in water.
pH:	6.5 – 7.5.
Flammability:	Combustible liquid.
Flash Point:	> 61°C.
Poisons Schedule:	This product is a Schedule 5 (S5) poison.
Formulation type:	Emulsifiable concentrate.

SECTION 10 STABILITY AND REACTIVITY

Chemical Stability: Product is considered stable for a period of at least 2 years after manufacture.

Conditions to avoid: Do not store for prolonged periods in direct sunlight. Keep away from strong oxidizing agents. Keep away from sources of heat, flame or sparks.

Incompatible materials: Incompatible with strong oxidizing agents, strong acids and strong bases.

SECTION 10 STABILITY AND REACTIVITY (Continued)

Hazardous Decomposition Products: Product is likely to decompose after heating to dryness and continued strong heating and will emit toxic fumes.

Hazardous Reactions: Avoid contact of the concentrate with strong alkalis and alkaline materials such as lime. Polymerisation is unlikely.

SECTION 11 TOXICOLOGICAL INFORMATION

No specific data is available for this product as no toxicity tests have been conducted on this product. Information presented is our best judgement based on similar products and/or individual components. As with all products for which limited data is available, caution must be exercised through the use of protective equipment and handling procedures to minimise exposure.

Potential Health Effects:**ACUTE EFFECTS**

Swallowed: Low acute toxicity. Acute Oral LD₅₀ = 2780 mg/kg (rats) - metolachlor.

Eye: This product may be irritating to the eyes.

Skin: This product will irritate the skin and may be sensitising to sensitive individuals. Acute dermal LD₅₀ > 2,000 mg/kg.

Inhaled: Inhalation of mists or sprays may produce respiratory irritation. Acute inhalation LC₅₀ > 4.3 mg/L/4 hours.

Long Term Exposure: No data available on this formulation.

Exposure to humans is most commonly occurs through skin or eye contact. Signs of intoxication include abdominal cramps, anaemia, shortness of breath, dark urine, convulsions, diarrhoea, jaundice, weakness, nausea and dizziness.

Chronic toxicity:

While metolachlor is not readily absorbed by the skin, repeated exposure may create skin sensitisation. There is no evidence of reproductive, teratogenic, mutagenic or carcinogenic effects from exposure to metolachlor.

SECTION 12 ECOLOGICAL INFORMATION

Environmental Toxicology: No data is available on this product. The active ingredient, metolachlor, has low toxicity to birds with and LD₅₀ > 2000 mg/kg (Mallard duck) and 4500 mg/kg (Bobwhite quail). Moderate toxicity to fish with 96 hour LC₅₀ 3 mg/L (Rainbow trout); 15 mg/L (Bluegill sunfish) and 5 mg/L (Carp). Non-toxic to bees and earthworms at normal application rates.

Environmental Fate: S-Metolachlor is biodegradable. It will not accumulate in the soil or water or cause long term problems. Half-lives in soil 15 to 70 days. Soils with higher water content show more rapid degradation. Metolachlor is moderately mobile in soils. Metolachlor is more stable in water with a half-life greater than 200 days in acid waters and 97 days in alkaline waters.

SECTION 13 DISPOSAL CONSIDERATIONS**Spills and Disposal:****1) After intended use - containers:**

Triple-rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush, or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available, bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose, clear of waterways, desirable vegetation and tree roots, in compliance with relevant local, state or territory government regulations. Do not burn empty containers or product.

SECTION 13 DISPOSAL CONSIDERATIONS (Continued)**2) After spill or accident**

Persons involved in cleanup require adequate skin protection - see Section 8. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. To decontaminate spill area, tools and equipment, wash with detergent and water. Add the solution to the drums of wastes already collected and label contents. Dispose of drummed wastes, including decontamination solution in accordance with the requirements of Local or State Waste Management Authorities.

SECTION 14 TRANSPORT INFORMATION

Transport: This product is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail.

Marine and Air Transport: This product is not classified as a Dangerous Good according to International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

SECTION 15 REGULATORY INFORMATION

Under the Standard for Uniform Scheduling of Medicines and Poisons (SUSMP), this product is a Schedule 5 poison.

This product is registered under the Agricultural and Veterinary Chemicals Code Act 1994. Product Registration No. 81853.

This product is classified as a Hazardous Substance under the criteria of Safe Work Australia. Xn: Harmful.

This product is not classified as a Dangerous Good.

Requirements concerning special training:

Check State or Territory regulations that require people who use pesticides in their job or business to have training in the application of the materials.

SECTION 16 OTHER INFORMATION

Issue Date: 14 July 2016. Valid for 5 years, till 14 April 2021. (First issue).

Key to abbreviations and acronyms used in this SDS:

ADG Code: Australian Dangerous Goods Code (for the transport of dangerous goods by Road and Rail).

Ataxia: Inability to control the coordinate movements of the muscles.

Bradycardia: Is a resting heart rate of under 60 beats per minute (adults).

Carcinogen: An agent which is responsible for the formation of a cancer.

Genotoxic: Capable of causing damage to genetic material, such as DNA.

Mutagenic: Able to produce a mutation (a change in the genetic material of cells).

Neurotoxicity: An adverse change in the structure or function of the nervous system.

Oedema: Accumulation of fluid in tissues.

PPE: Personal protective equipment.

Teratogen: An agent capable of causing abnormalities in a developing foetus, that is causing birth defects.

TWA: The Time Weighted Average airborne concentration over an eight-hour working day, for a five day working week over an entire working life.

Safe Work Australia: Formally known as Australian Safety & Compensation Council (ASCC) which was formally known as the National Occupational Health & Safety Commission (NOHSC).

References

1. "Search Hazardous Substances". Safe Work Australia HSIS website. (2016).
2. "Approved Criteria for Classifying Hazardous Substances" 3rd Ed. NOHSC Australia. [NOHSC:1008 (2004)]. October 2004.
3. Globally Harmonized System of Classification and Labelling of Chemicals (GHS). United Nations, 2009.

SECTION 16 OTHER INFORMATION (Continued)

This SDS summarises our best knowledge of the health and safety hazard information of the product and how to safely handle and use the product in the workplace. Each user should read this SDS and consider the information in the context of how the product will be handled and used in the workplace including in conjunction with other products.

If clarification or further information is needed to ensure that an appropriate risk assessment can be made, the user should contact this company.

End SDS.