

## SAFETY DATA SHEET



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Date of Issue: March 2017  
SDS No. FMC/CHASES/1

### SECTION 1 IDENTIFICATION OF THE MATERIAL AND SUPPLIER

**Product Name: CHASER S HERBICIDE**

**Other Names:** S-Metolachlor. Group K Herbicide.  
**Use:** Agricultural Herbicide or the control of grasses and broadleaf weeds.  
**Company:** FMC Australasia Pty Ltd.  
**Address:** 12 Julius Ave, North Ryde, NSW 2113.  
**Telephone Number:** Freecall 1800 624 597 (Business hours).  
**Emergency Telephone Number:** 1800 033 111 (24 hours - Australia wide).

### 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.**

**GHS Classification:**

Sensitization – Skin: Hazard Category 1.  
Hazardous to the aquatic environment – long term hazard: Hazard Category 2.

**Signal Word:** WARNING.

**Hazard Statements:**

H317 May cause an allergic skin reaction.  
H410 Very toxic to aquatic life with long-lasting effects.

**Precautionary statements:**

*Prevention:*

P201 Obtain special instructions before use.  
P202 Do not handle until all safety precautions have been read and understood.  
P273 Avoid release to the environment.  
P281 Use personal protective equipment as required.

*Response:*

P308 + P313 IF exposed or concerned: Get medical advice/ attention:  
P391 Collect spillage.

*Storage:*

P405 Store locked up.

*Disposal:*

P501 Dispose of contents/container in accordance with national regulations.

**Pictograms:**



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

S-Metolachlor

Other ingredients determined to be non-hazardous

**CAS NUMBER**

87392-12-9

**PROPORTION**

960 g/L

Balance

**SECTION 4 FIRST AID MEASURES****FIRST AID**

**Swallowed:** If swallowed, rinse mouth with water and give 1 or 2 glasses of water to drink. If any discomfort persists seek medical advice. Do NOT induce vomiting.

**Eye:** If in eyes, hold eyes open and flush with clean water until chemical is removed. If irritation occurs and persists, obtain medical attention.

**Skin:** If on skin wash with soap and water. Remove contaminated clothing. If irritation occurs and persists see a doctor. Launder contaminated clothing before re-use.

**Inhaled:** Remove patient to fresh air. If breathing discomfort occurs, obtain medical attention.

**SECTION 5 FIRE FIGHTING MEASURES**

**Specific Hazard:** Product is a combustible liquid (C1). Flash point ~120°C.

**Extinguishing media:** Alcohol resistant foam, CO<sub>2</sub> or dry chemical. Soft stream water fog if no alternatives. Contain all runoff.

**Hazards from combustion products:** On burning will emit toxic and irritating fumes. Eruption of containers is likely if confined at high temperatures. Intact containers exposed to excessive heat should be cooled with water to reduce drum pressure.

**Precautions for fire-fighters and special protective equipment:** Isolate fire area. Evacuate downwind. Wear full protective clothing and self-contained breathing apparatus. Do not breathe or contact smoke, gases or vapours generated. Fight fire from maximum distance or protected area. Contain all runoff.

**SECTION 6 ACCIDENTAL RELEASE MEASURES**

**Emergency procedures:** Isolate and post spill area. Isolate and post spill area. Wear cotton overalls buttoned to the neck and wrist and a washable hat, elbow-length PVC gloves and goggles. In the case of spillage, stop leak if safe to do so, and contain spill. Prevent spillage entering drains or watercourses. Contain and absorb spilled material with absorbent material such as sand, clay, cat litter or material such as vermiculite. Collect recoverable product for use as labelled on the product. Vacuum, shovel or pump contaminated spilled material into an approved container and dispose of waste as per the requirements of Local or State Waste Management Authorities. Keep out animals and unprotected persons.

**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. Dispose of waste as per the requirements of Local or State Waste Management Authorities.

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:** Ensure containers are kept closed until using product. Will damage eyes. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes. 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

**SECTION 7 HANDLING AND STORAGE (Continued)**

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. Wash hands after use. After each days use, wash gloves, face shield or goggles and contaminated clothing.

**Conditions for Safe Storage:** DO NOT store near (or allow to contact) fertilizers, fungicides or pesticides. Store in the closed original container, in a cool well ventilated area, out of direct sunlight. Store in a room or place away from children, animals, food, feed stuffs, seed and fertilizers. This product is classified as a C1 (Combustible Liquid) for the purpose of storage and handling, in accordance with the requirements of AS 1940. Refer to state regulations for storage and transport requirements.

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

No exposure standard for clomazone has been established by Safe Work Australia for this product.

**Biological Limit Values:**

No biological limit allocated.

**Engineering controls:**

Use in well ventilated area only. Use local exhaust at all process locations. Ventilate all transport vehicles prior to unloading. Keep containers closed when not in use.

**Personal Protective Equipment (PPE):**

General: 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. Wash hands after use. After each days use, wash gloves, face shield or goggles and contaminated clothing.

Personal Hygiene: Will damage eyes. Repeated exposure may cause allergic disorders. Sensitive workers should use protective clothing. Avoid contact with eyes. 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**

<b>Appearance:</b>	Yellowish to brown clear liquid.
<b>Odour:</b>	Weak aromatic hydrocarbon odour.
<b>Boiling point:</b>	Not available.
<b>Freezing point:</b>	Not available.
<b>Specific Gravity:</b>	Approximately 1.1 g/mL.
<b>pH:</b>	4 - 8.
<b>Solubility in Water:</b>	Product emulsifies in water.
<b>Flammability:</b>	Combustible liquid (C1).
<b>Flashpoint (°C):</b>	~ 120°C.
<b>Corrosive hazard:</b>	Not known to be corrosive.
<b>Flammability Limits (%):</b>	Not established.
<b>Poisons Schedule:</b>	Product is a schedule 5 (S5) poison.
<b>Formulation type:</b>	Emulsifiable Concentrate (EC).

**SECTION 10 STABILITY AND REACTIVITY**

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

**Conditions to avoid:** Keep in a cool place. Keep away from sources of heat and naked flames.

**Incompatible materials:** Keep away from strong acids, strong bases and strong oxidizing agents.

**Hazardous decomposition products:** On burning will emit toxic and irritating fumes.

**Hazardous reactions:** Will not polymerise.

**SECTION 11 TOXICOLOGICAL INFORMATION****Potential Health Effects:**

Studies with laboratory animals have shown this product to have low oral, dermal and inhalation toxicity. Signs of toxicity in laboratory animals included tremors, abdominal gripping, mucoid anal discharge, bloody oral discharge, hypothermia, squinting eyes, lacrimation, and pink to orange-brown discoloration of urine.

**Acute**

**Swallowed:** The product has low toxicity; the oral LD<sub>50</sub> in the rat is > 2200 mg/kg.

**Eye:** May irritate the eyes. Symptoms include stinging, watering and reddening of the eyes.

**Skin:** Slightly irritating to the skin. This product has a low dermal toxicity. The dermal LD<sub>50</sub> in the rabbit is > 2000 mg/kg. It is non-sensitising to the skin.

**Inhaled:** This product has low inhalation toxicity. The Acute Inhalation toxicity LC<sub>50</sub> > 6.31 mg/L/4 hour.

**Chronic:** No data available on this formulation. In studies with laboratory animals, metolachlor did not cause reproductive toxicity, teratogenicity or carcinogenicity. An overall absence of genotoxicity has been demonstrated in tests of mutagenicity, DNA damage and chromosomal aberrations.

**SECTION 12 ECOLOGICAL INFORMATION**

**Environmental Toxicology:** Metolachlor is made up of the (S)-isomer and the (R)-isomer as the 50% isomer pair. The S-isomer is the herbicidal active isomer with the R-isomer having little or no activity. S-Metolachlor contains approximately 88% S-isomer and 12% R-isomer. No data is available on this product. The active ingredient, metolachlor, has low toxicity to birds with and LD<sub>50</sub> > 2000 mg/kg (Mallard duck) and 4500 mg/kg (Bobwhite quail). Moderate toxicity to fish with 96 hour LC<sub>50</sub> 3 mg/L (Rainbow trout); 10 mg/L (Bluegill sunfish) and 4.9 mg/L (Carp). Daphnia 48 hour LC<sub>50</sub> =25.1 mg/L. Non-toxic to bees and earthworms.

**Environmental Properties:** 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 & Disposal:** Isolate and post spill area. Wear prescribed protective clothing and equipment. Large spills should be dyked or covered to prevent dispersal. Keep out animals and unprotected persons. Keep material out of streams and sewers. Vacuum, shovel or pump waste into an approved drum. Label for contents. Dispose of drummed wastes, including decontamination solution, in accordance with the requirements of Local or State Waste Management Authorities.

**Disposal of empty 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 14 TRANSPORT INFORMATION**

**Transport:** Chaser S Herbicide is not classified as a Dangerous Good under the Australian Code for the Transport of Dangerous Goods by Road and Rail, the International Maritime Dangerous Goods (IMDG) Code and the International Air Transport Association (IATA).

**SECTION 15 REGULATORY INFORMATION**

Classified as a hazardous substance according to criteria of Safe Work Australia.

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. 70454.

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

*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: 7 March 2017. Valid for 5 years till 7 March 2022. (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.
Clonic:	An abnormality in neuromuscular activity characterized by rapidly alternating muscular contraction and relaxation.
Combustible Liquid:	Liquids that ignite with a flash point greater than 60°C.
Flammable Liquid:	Liquids that ignite with a flash point less than 60°C.
Genotoxic:	Capable of causing damage to genetic material, such as DNA.
Haematopoietic:	Pertaining to the formation of blood or blood cells.
Lavage:	The irrigation or washing out of an organ, as of the stomach or bowel.
Mutagen:	An agent capable of producing a mutation.
Oedema:	Accumulation of fluid in tissues.
NOHSC:	National Occupational Health and Safety Commission.
Teratogen:	An agent capable of causing abnormalities in a developing foetus.
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 website. (2017).
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.

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*