

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:

Hazardous according to the criteria of NOHSC

COMPANY DETAILS:

Syngenta Crop Protection Pty Limited
ABN 33 002 933 717
140-150 Bungaree Rd.,
PENDLE HILL, NSW, 2145

Telephone No.: (02) 9688 0444
24 Hours Emergency No.: 1 800 033 111

IDENTIFICATION

PRODUCT NAME: PRIMEXTRA[®] GOLD Herbicide

| | | | |
|----------------------------|---|--|----------------|
| Formulation type: | suspension concentrate | UN Number: | none allocated |
| Active Ingredients: | (ie flowable aqueous solution) - S-metolachlor - atrazine | Dangerous Goods Class/ and Subsidiary Risk: | none allocated |
| Product Code No.: | A-9559A | Hazchem Code: | none allocated |
| Chemical types: | - acetanilide - triazine | Packing Group: | none allocated |
| | | Poisons Schedule: | 5 |

USE: Herbicide for the control of certain annual grasses in maize (not waxy maize), sugarcane and sweet corn, also in sorghum when treated previously with Concep[®] II.

PHYSICAL DESCRIPTION/PROPERTIES

| | | | |
|-------------------------|---------------------------|-----------------------------|--------------------|
| Appearance: | White flowable suspension | Specific gravity | 1.08 (20°C) |
| Odour: | Non-specific | Flash Point: | >61°C (closed cup) |
| Vapour pressure: | Not available | Flammability: | Non-flammable |
| | | Solubility in water: | Suspensible |

OTHER PROPERTIES

| | | | |
|------------------------|-----------------|-----------------------|---------------|
| Combustibility: | Non-combustible | Corrosiveness: | Non-corrosive |
| Viscosity: | 400-800 cps | | |

INGREDIENTS

| | CAS No. | Content (%w/v) |
|--|------------|----------------|
| s-metolachlor (technical grade) | | 30 |
| to give metolachlor | 51218-45-2 | 29 |
| atrazine (technical grade) | | 38 |
| to give atrazine | 1912-24-9 | 37 |
| nonylphenol polyglycoether sulfate and ethoxylated tallow alkyl amines | | <10 |
| polydimethylsiloxane [Antifoam A] | 63148-62-9 | <1 |
| alkylene glycol | | <5 |
| other ingredients determined not to be hazardous | | 30-32 |

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE - This product is slightly hazardous (WHO Hazard Class III).

Swallowed: **LOW TOXICITY**
Tests on rats indicate a low toxicity following single doses of undiluted product.
(LD₅₀ = 2935 mg/kg)

Dermal absorption: **LOW TOXICITY**
Tests on rats indicate a low toxicity due to skin contact with undiluted product.
(LD₅₀ > 2020 mg/kg)

Inhaled: **LOW TOXICITY**
 Tests on rats indicate a low toxicity due to inhalation of the undiluted product.
 (LC₅₀ (4 h) > 2610 mg/m³)

Irritation (based on studies with rabbits using the main ingredients)

Eye: **SLIGHTLY IRRITATING**
 Skin: **SLIGHTLY IRRITATING**

Sensitisation (based on results of active ingredients on guinea pigs)

Skin: **NOT A SENSITISER**

Poisoning symptoms:

No case of human poisoning due to this product is on record. The poisoning symptoms observed for laboratory mammals were non-specific.

CHRONIC (Active Ingredients)

s-Metolachlor technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained. In two separate studies in mice **s-metolachlor technical** did not induce tumours or other long-term toxic effects. No adverse effects were observed in two long-term studies in rats, except at extremely high doses, where a small number of females developed benign liver tumours. This liver response has been observed in rats given high doses of many other compounds and may only reflect the extremely high doses used.

Atrazine technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, teratogenic or reproductive effects was obtained. After long-term administration (ie, close to 2 years of continuous feeding) a slight increase in the incidence of mammary tumours was reported in one species (rat), one sex (female) and one strain (Sprague-Dawley) in one study at higher doses. A more recent study (1992) using Sprague-Dawley rats showed no significant difference between rats fed normal diet and those fed on a diet containing atrazine with regard to the incidence of tumours. Recent studies with the Fischer rat strain have shown no evidence of tumour producing potential. The relevance of the mammary tumour finding to humans is doubted as epidemiological studies of workers involved in the production of atrazine for up to 30 years have shown no evidence of health problems associated with atrazine exposure. Atrazine has been listed by IARC as a Class 3, not classifiable as to carcinogenicity to humans.

FIRST AID

In case of poisoning by any exposure route contact a doctor or Poisons Information Centre. Phone 131 126.

Swallowed: If swallowed, contact a doctor or Poisons Information Centre.
 Eye: Flush with large quantities of clean tap water for at least 15 minutes.
 Skin: Remove contaminated clothing and wash affected areas thoroughly with soap and water.
 Inhaled: Move affected person to fresh air and keep at rest until recovered.

ADVICE TO DOCTOR

No specific antidote exists. Treat symptomatically.

PRECAUTIONS FOR USE

ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS

EXPOSURE STANDARDS

Ingredient: **Occupational Exposure Standard (NOHSC)**
atrazine 5 mg/m³ of air (8 h time weighted average)

No exposure standards have been set for the other components of this product.

Exposure Potential - Swallowing is unlikely under normal conditions of usage. Significant skin uptake does not occur. Inhalation of the spray mist is a possible route of exposure. This product is mixed with water prior to use as a spray. This diluted form is less toxic by all exposure routes.

Re-entry Period - Do not enter treated areas without protective clothing until the spray has dried.

ENGINEERING CONTROLS

No special requirements. Product is used outdoors.

PERSONAL PROTECTION

Avoid contact with eyes and skin. Do not inhale spray mist.

When preparing spray and using the prepared spray wear elbow-length PVC gloves.

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.

If the levels of **atrazine** in the air exceed the exposure standards wear a half-face-piece respirator with combined dust and vapour cartridge. Use only protective equipment bearing the mark of the Standards Association of Australia.

FLAMMABILITY

This product is NON-FLAMMABLE and non-combustible.

SAFE HANDLING INFORMATION

STORAGE AND TRANSPORT

Store in tightly sealed original containers in a dry secure place away from fertilisers, seed, feed and food. Store out of direct sunlight. Keep out of reach of children, unauthorised persons and animals.

SPILLS AND DISPOSAL

In case of spillage it is important to take all steps necessary to:

- Avoid eye and skin contact.
- Avoid contamination of waterways.

Procedure for spill:

- (1) Keep all bystanders away.
- (2) Wear full-length clothing and elbow-length PVC gloves.
- (3) Reposition any leaking containers so as to minimise leakage.
- (4) Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Dispose of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50L of product bury in a secure landfill site.
 - For quantities greater than 50L seek advice (use emergency contact number below) from the manufacturer before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate spill area with detergent and water and rinse with the smallest volume of water practicable.

Dispose of empty, used containers by:

- (a) Triple rinsing or preferably pressure rinsing containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) If recycling, replace cap and return clean containers to recycler or designated collection point.
- (c) If not recycling, break, crush or puncture and bury empty containers in a local authority landfill site. If no landfill is available, bury the containers below 500 mm in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots. Empty containers and product should not be burnt.

FIRE/EXPLOSION HAZARD

This product is non-flammable, non-explosive and non-combustible. Extinguish warehouse or factory fires using fine water spray or foam. Do not allow fire-water to enter drains.

OTHER INFORMATION

PRIMEXTRA GOLD is slightly toxic to fish [LC₅₀ (96 h), rainbow trout = 11 mg/L, LC₅₀ (48 h), *Daphnia magna* = 57 mg/L] and practically non-toxic to birds, bees and earthworms.

Note: This product is a registered agricultural chemical and must therefore be used in accordance with the container label directions. A comprehensive package of toxicological and environmental data for the active ingredients of this product has been submitted to the Federal health and environment authorities and has been evaluated by expert toxicologists and environmental scientists.

CONTACT POINT: Regulatory Affairs Manager - Crop Protection - (02) 9688 0444
24 HOURS EMERGENCY CONTACT: 1 800 033 111

This Material Safety Data Sheet 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 MSDS 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.