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# MATERIAL SAFETY DATA SHEET

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**Product Name: Superway Triclopyr 600 Selective Herbicide**

14/7/2016

**Statement of Hazardous Nature:**

Hazardous according to criteria of the National Occupational Health and Safety Commission

## I IDENTIFICATION

Product Name: **Superway Triclopyr 600 Selective Herbicide**

Chemical Name: Triclopyr butoxyethyl ester

Use: For the control of a range of woody weeds as specified on the label  
UN No: Not Classified as a Dangerous Good, therefore not applicable (na)

Hazchem Code: na

Proper shipping name: na

Class: na

Sub - Class: na

Packaging Group: na

EPG: na

Poison Schedule: S6

Product Code IWD 34831

**Physical Appearance & Properties:**

Appearance and Odour: Clear amber liquid

Boiling Point °C: 150°C at 100kPa

Vapour Pressure: 1.0 x 10<sup>5</sup> mm Hg at 33°C (triclopyr butoxyethyl ester), 0.14 mm Hg at 20°C (glycoether).

Specific gravity 1.201 g/mL at 20°C

Solubility (Water): Emulsifiable

Flashpoint: 95°C (seta flash)

Corrosiveness: Not corrosive

Volatile materials: No specific data. Expected to be low at 100°C

## **INGREDIENTS:**

Component CAS No Proportion (w/v)

Triclopyr butoxyethyl ester (sufficient

To give 600 g/L of the acid equivalent) 064700-56-7 860 g/L

Glycolether (solvent) <225 g/L

Other non hazardous ingredients <150 g/L

## **II HEALTH HAZARD DATA**

### **HEALTH EFFECTS:**

#### **ACUTE EFFECTS**

Swallowed: The acute oral toxicity is low and small amounts ingested incidentally due to industrial handling are not likely to be harmful. The Oral LD<sub>50</sub> for Rat is above 2000 mg/kg. Ingestion of larger amounts may cause injury

Eye: May cause temporary, moderate eye irritation.

Skin: The acute dermal toxicity is low and a single prolonged dermal exposure is not likely to result in absorption of harmful amounts. The acute Dermal LD<sub>50</sub> for rabbit is above 2000 mg/kg

Inhaled: The acute inhalation toxicity is low and absorption of harmful amounts by inhalation is unlikely. Prolonged exposure to the solvent vapour from the concentrate may cause eye and respiratory irritation, headache, dizziness and narcotic effects.

Chronic: No specific data is available for the product for chronic exposure symptoms. Rats and mice administered the active ingredient, triclopyr, in long-term carcinogenicity studies showed no increase in tumours when compared to the untreated groups. Studies in rats and rabbits indicated that triclopyr does not cause birth defects or interfere with reproduction. Triclopyr does not cause genetic change and does not accumulate in the body. The ingredients are not listed as carcinogenic in NOHSC's document "Exposure Standards for Atmospheric Contaminants "

#### **FIRST AID:**

Swallowed: If poisoning occurs, contact a Doctor or Poisons Information Centre. If swallowed, and more than 15 minutes from a hospital, induce vomiting, preferably using Ipecac Syrup APF.

Eye: Hold eyes open, flood with clean water for at least 15 ,minutes and see a doctor

Skin: Wash skin thoroughly with soap and water. Remove contaminated clothing. If skin is irritated, seek medical advice.

Inhaled: Remove to fresh air. If ill-effects persist, consult a doctor.

Advice to Doctor: Treat symptomatically with supportive care.

### **III PRECAUTIONS FOR USE:**

#### **Exposure Limits:**

A time weighted average (TWA) concentration for an 8 hour day, and 5 day week has not been established by The National Occupational Health & Safety Commission for any of the major ingredients in this Product. There is a blanket limit of 10 mg/m<sup>3</sup> for dusts or mists when limits have not otherwise been established. The nature of this product makes it unlikely that this level will be approached in normal use. The ADI (Acceptable Daily Intake) for triclopyr (as butoxyethanol ester) is set at 0.005 mg/kg/day. The corresponding NOEL (No-observable-effect-level) is set at 0.5 mg/kg/day. Values taken from Australian ADI List, May 1995.

#### **Engineering Controls:**

In industrial situations, concentration values below the TWA value should be maintained. Values may be reduced by process modification, use of local exhaust ventilation, capturing substances at the source, or other methods. If you believe air borne concentrations of mists, dusts or vapours are high, you are advised to modify the process or environment to reduce the problem.

#### **Personal Protection:**

Poisonous if swallowed. May irritate the eyes and skin. Avoid contact with eyes and skin. When preparing the spray and using the prepared spray wear rubber gloves.

### **IV SAFE HANDLING INFORMATION:**

#### **Storage and Transport:**

Not defined as a Dangerous Good by the Australian Code for the Transport of Dangerous Goods by Road and Rail No special storage and transport requirements. This product has no UN classification. This product is an S6 Poison. Observe all relevant regulations regarding sale, transport and storage of this class of product. Containers should be kept closed in order to minimise contamination. Avoid contact with food foodstuff empties, feedstuffs, fertilizers, seeds, clothing, drugs or other household goods during transport and storage. Keep from extreme heat and open flames, and make sure that the product does not come into contact with substances listed under "Materials to avoid" below.

#### **Spills:**

Small Spill: Wear protective equipment (see Personal Protection). Apply absorbent material such as earth, sand, clay granules or cat litter to the spill. Sweep up material when absorption is completed and contain in a refuse vessel for disposal in the same manner as for containers (see Disposal Section). If necessary wash the spill area with an alkali detergent and water and absorb the wash liquid for disposal as above. Prevent entry of chemical or used/damaged containers into drains, streams or waterways.

Large Spill: Wear protective equipment (see Personal Protection). Clear area of all unprotected personnel. Place leaking containers into salvage drums. Apply absorbent material such as earth, sand or cat litter to the spill area. Form a barricade around spill and in front of drains or waterways in spill vicinity, using earth or other available material. Prevent entry of chemical or used/damaged containers into drains, streams or waterways.

#### **Disposal,**

Contaminated material must be disposed of in accordance with all State and/or Local regulations.

Triple or preferably pressure rinse containers before disposal. Add rinsings to spray tank. Do not dispose of undiluted chemicals on site. If recycling container, replace cap and return clean containers to recycler or designated

collection point. If no recycling break, crush or puncture and bury empty containers in a local authority landfill. If no landfill is available, bury the containers below 500mm 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 classified as a C1 combustible product. There is a slight risk of an explosion from this product if it is involved in a fire.

Flashpoint: 95<sup>0</sup>C (seta flash)

Flammability limits: Not applicable. This product is not flammable.

Extinguishing Media: Carbon dioxide, dry chemical, foam, water fog.

### **Special Fire**

Fighting procedures: If a significant quantity of this product is involved in a fire, call the fire brigade. Immediately evacuate the area of unnecessary personnel. When fighting fires involving significant quantities of this product, wear safety boots, non-flammable overalls, gloves, hat, goggles and respirator. All skin areas should be covered.

### Unusual Fire &

Explosion Hazards: Fire decomposition products from this product may form toxic and corrosive mixtures in confined spaces. Vapours from this product are heavier than air and may accumulate in sumps, pits and other low-lying spaces, forming potentially explosive mixtures. They may also flash back considerable distances. Violent steam generation or eruption may occur upon application of direct water stream on hot liquids.

Stability: This product is unlikely to spontaneously decompose.

Polymerisation This product is unlikely to spontaneously polymerise.

### Decomposition

Products: Carbon dioxide, and if combustion is incomplete, carbon monoxide and smoke. Nitrogen, and under some circumstances, oxides of nitrogen. Hydrogen chloride gas, chlorides, and in some circumstances, phosgene. Water

Materials to avoid: Strong oxidising agents.

## **V OTHER INFORMATION:**

### **Ecotoxicity Data**

Triclopyr butoxyethyl ester is toxic to fish, moderately toxic to aquatic organisms and livestock, and slightly toxic to birds. It has low toxicity to honey bees. In soil and water, triclopyr butoxyethyl ester hydrolyses to triclopyr acid which has low toxicity to fish, aquatic organisms, livestock, birds and honey bees. Triclopyr does not bioaccumulate in animal systems.

### **Environmentl Fate:**

Triclopyr butoxyethyl ester is rapidly hydrolysed to triclopyr acid in soil and water. Triclopyr acid is degraded by microbial action and photodecomposition. Triclopyr acid, in soil, has a half-life of approximately forty days, depending on soil and climatic conditions. In water, triclopyr acid will decompose rapidly with a half-life of one to two days. Minimal leaching of triclopyr acid may occur in light soils under high rainfall conditions. Contamination of

ground water by triclopyr is highly unlikely. If used according to the label, Superway Triclopyr 600 Selective Herbicide will not be harmful to the environment.

**Disclaimer:**

The information provided in these MSDS's is based upon sources believed to be accurate. However, the Company assumes no responsibility for the accuracy, completeness or suitability of this information. The product user is responsible to determine the suitability of this information for their particular purposes.

IN CASE OF EMERGENCY DIAL 000

IF INEFFECTIVE: PHONE POISONS INFORMATION CENTRE

SPECIALIST COMPANY ADVICE:

Superway Garden Ag and Pest Products Pty Ltd

Shed 6 Cnr Roys Road and Moroney Place Beerwah Qld 4519

Phone: 0 7 54390355

Fax: 07 54390366

**DISCLAIMER:**

This Material Safety Data Sheet has been developed according to the WORKSAFE/NOHSC Code of Practice.

The data, information and recommendations herein ("information") are represented in good faith and believed to be correct as of the data hereof.

The purpose of this Material Safety Data Sheet is to describe product in terms of their safety requirements.

Superway Garden Ag and Pest Products Pty Ltd makes no representation of merchantability, fitness for a particular purpose of application, or of any other nature with respect to the information or the product to which the information refers ("the product").

The information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for their purpose prior to the use of the product.

The physical data shown herein are typical values based on the material tested. These values should not be construed as a guaranteed analysis of any specific lot or as guaranteed specification for the product or specific lots thereof.

Due care should be taken to make sure that the use or disposal of this product and/or its packaging is in compliance with relevant Federal, State and Local Government regulations.