

MATERIAL SAFETY DATA SHEET

STATEMENT OF HAZARDOUS NATURE:
Hazardous according to the criteria of NOHSC

COMPANY DETAILS:

Novartis Crop Protection Australasia Pty Limited
A.C.N. 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: CADENCE® WG Herbicide

Formulation type:	water dispersible granule	Dangerous Goods Class/ and Subsidiary Risk (ADG):	none allocated
Active Ingredient:	Dicamba present as the sodium salt	Hazchem Code:	none allocated
Product Code No.:	SAN 845H; A9781A	Packing Group:	none allocated
Chemical type:	benzoic acid derivative	Poisons Schedule:	6
UN Number:	none allocated		

USE: Herbicide for control of certain broadleaf weeds in Wheat, Barley, Oats and Triticale as per the directions for use table on the product container.

PHYSICAL DESCRIPTION/PROPERTIES

Appearance:	Grey brown granules	Flash Point:	Not applicable
Odour:	Faint	Flammability:	Non-flammable
Specific gravity (H₂O=1)	approx. 0.6 kg/L	Combustibility:	Combustible

OTHER PROPERTIES

Autoignition temp.:	232°C	pH (1% deion.water):	approx. 7.0 at 20°C
Solubility in water:	Dispersible at 20°C	Oxidising properties:	Non-oxidising

INGREDIENTS -

	CAS Number	Content (% w/w)
Dicamba technical to give Dicamba present as the Sodium Salt	1982-69-0/2178463	> 70%
Diatomaceous earth (silica)	7631-86-9	10 - < 30%
Other Ingredients determined not to be hazardous:		to 100%

HEALTH HAZARD INFORMATION

HEALTH EFFECTS

ACUTE

Toxicity - 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. (LD ₅₀ = 2062 mg/kg female rat)
Dermal absorption:	LOW TOXICITY Tests on rabbits indicate a low toxicity due to skin contact with undiluted product. (LD ₅₀ > 2000 mg/kg)
Inhaled:	LOW TOXICITY Tests on rats indicate a low toxicity due to inhalation of undiluted product. (LC ₅₀ (4 h) > 5.0 mg/L)

Irritation Hazardous by contact with eyes

Eye: **IRRITANT (CORROSIVE)**
Skin: **SLIGHT IRRITANT**

Skin Sensitisation - NOT SENSITISING

Tests with guinea pigs using CADENCE indicated no potential for skin sensitisation.

CHRONIC (Active Ingredient)

Dicamba technical has been extensively tested on laboratory mammals and in test-tube systems. No evidence of mutagenic, carcinogenic, teratogenic or reproductive effects were obtained.

FIRST AID

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

Swallowed: If swallowed, contact doctor or Poisons Information Centre and if more than 15 minutes from a hospital, induce vomiting preferably using Ipecac Syrup (APF).
Eye: Corrosive, attacks the eyes. Avoid contact with eyes. If product gets in eyes wash it out immediately with water. Seek medical attention immediately.
Skin: Will irritate the skin. Avoid contact with skin. If skin contact occurs remove contaminated clothing and wash affected areas thoroughly with soap and water.
Inhaled: Move person to fresh air and keep at rest until recovered.

ADVICE TO DOCTOR

No specific antidote is available. If poisoning is suspected apply symptomatic therapy.

PRECAUTIONS FOR USE**ALWAYS READ AND FOLLOW THE LABEL INSTRUCTIONS AND WARNINGS****EXPOSURE STANDARDS**

No NOHSC exposure standard has been allocated for this product.

The nuisance particulate exposure standard of 10 mg/m³ of inspirable air should not be exceeded for airborne dust generated from this material.

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

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

When opening container and preparing spray wear cotton overalls buttoned to the neck and wrist and a washable hat and elbow-length PVC gloves and goggles. When using the prepared spray, wear cotton overalls buttoned to the neck and wrist and a washable hat and 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 and goggles and contaminated clothing.

FLAMMABILITY

This product is NON-FLAMMABLE and non-explosive. Product is 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 goggles, half face-piece respirator with combined dust and vapour cartridge, full length clothing and PVC gloves.
- (3) Reposition any leaking containers so as to minimise further leakage.
- (4) **For a product spill:** Sweep granule concentrates into a pile.
For a prepared spray spill: Dam and absorb spill with an absorbent material (e.g. sand or soil).
- (5) Shovel the absorbed spill into drums.
- (6) Disposal of the absorbed material will depend upon the extent of the spill.
 - For quantities up to 50 kg of product bury in a secure landfill site.
 - For quantities greater than 50 kg seek advice from the manufacturer (use emergency contact number below) before attempting disposal. Contain in a secure location until disposal method is established.
- (7) Decontaminate the spill area with detergent and water and rinse with of water.

Dispose of empty, used containers by:

- (a) Single rinse containers with water. Add the rinsings to the spray tank. DO NOT dispose of undiluted chemicals on site.
- (b) Puncture and bury empty containers in a local authority landfill. 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 and non-explosive. Product is combustible. Extinguish warehouse and factory fires using fine-water spray or foam. During a fire this product may release smoke and hazardous decomposition products. When fighting a major fire wear an air-supplied respirator.

OTHER INFORMATION

Sodium salt of dicamba technical has low toxicity to fish (LC₅₀ (96hr) 716 mg/L rainbow trout, LC₅₀ (96hr) > 1027 mg/L (Common Carp), daphnia (EC₅₀ (48hr) > 1030 mg/L water flea) and green algae (EC₅₀ (72hr) 107 mg/L) and low toxicity to birds and bees.

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.

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