

SAFETY DATA SHEET

This Safety Data Sheet (SDS) complies with the requirements of the U.S. Federal Occupational Safety and Health Administration Hazard Communication 29 CFR 1910.1200 (g)(2).

Morale 80 WDG

Version Revision Date:

3.0 10/20/2025

1. IDENTIFICATION OF THE PRODUCT & COMPANY

Product Name: Morale 80 WDG

Product Code: EPA Reg. No. 103087-13

Intended Use: Herbicide

Company Identification:

Longwind Cropsience USA LLC.
8 THE GREEN, STE A, DOVER, KENT,
DE, 19901, UNITED STATES

Emergency Information: In the event of a leak, fire or medical emergency involving a human or animal please call INFOTRAC: 1-800-535-5053 or Outside the USA and Canada at 1-352-323-3500, 24/7/365.

2. HAZARD IDENTIFICATION

GHS-US classification

Acute toxicity - Oral	Category 4
Serious eye damage/eye irritation	Category 2/2A

Required Label Elements

Signal Word: WARNING

Pictograms:



Hazard Statements:

Harmful if swallowed
Causes eye irritation

Precautionary Statements:**Prevention:**

Wash face, hands and any exposed skin thoroughly after handling
Do not eat, drink or smoke when using this product

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

If eye irritation persists: Get medical advice/attention

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell

Rinse mouth

Disposal

Dispose of contents/container to an approved waste disposal plant

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS Number	Active ingredient	%
Bromacil	314-40-9	x	77.6-82.4
Sodium dodecyl sulphate	151-21-3		1-5
Other ingredient	n/a		1-20

4. FIRST AID MEASURES

GENERAL ADVICE: Call a poison control center or doctor for treatment advice. Have the product containers or label with you when calling a poison control center or doctor, or going for treatment.

IF IN EYES: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. Wash contaminated clothing before reuse. If skin irritation persists, call a physician. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a physician or poison control center immediately. Drink 1 or 2 glasses of water. Do not induce vomiting without medical advice. Never give anything by mouth to an unconscious person.

IF INHALED: Move victim to fresh air. If breathing is irregular or stopped, administer artificial respiration. Call a physician or poison control center immediately. Call a poison control center or doctor for treatment advice.

SELF-PROTECTION OF THE FIRST AIDER: Ensure that medical personnel are aware of the material(s) involved and take precautions to protect themselves.

5. **FIRE FIGHTING MEASURES**

Suitable extinguishing Media: Dry chemical, CO₂, water spray or regular foam. Move containers from fire area if you can do it without risk. Dike fire-control water for later disposal. Water spray, fog or regular foam.

Specific hazards arising from the chemical: Thermal decomposition can lead to release of irritating and toxic gases and vapors.

Hazardous combustion products: Carbon oxides. Nitrogen oxides (NO_x). Oxides of sulfur.

Protective equipment and precautions for firefighters: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Cool containers / tanks with water spray.

6. **ACCIDENTAL RELEASE MEASURES**

Personal precautions: Evacuate personnel to safe areas. Ensure adequate ventilation, especially in confined areas. Use personal protective equipment as required. Avoid creating dust.

For emergency responders: Use personal protection recommended in Section 8. Ventilate the area.

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas.

Methods for containment: Prevent dust cloud. Prevent further leakage or spillage if safe to do so.

Methods for cleanup and disposal: Avoid creating dust. Do not dry sweep dust. Wet dust with water before sweeping or use a vacuum to collect dust. Sweep up and shovel into suitable containers for disposal.

7. **HANDLING AND STORAGE**

Handling: Avoid Use personal protective equipment as required. Avoid contact with skin, eyes or clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Do not breathe dust/fume/gas/mist/vapors/spray.

Storage: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feeding stuffs. Keep in properly labeled containers. Do not reuse container.

8. **EXPOSURE CONTROL/PERSONAL PROTECTION**

Engineering controls: Ensure adequate ventilation, especially in confined areas. And. Showers. Eyewash stations. Ventilation systems.

Eye/Face Protection: Wear safety glasses with side shields (or goggles). Tight sealing safety goggles.

Skin Protection: Wear suitable protective clothing. Wear protective butyl rubber gloves. Protective shoes or boots.

Respiratory Protection: Ensure adequate ventilation, especially in confined areas. If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended. Avoid contact with skin, eyes or clothing. Wash

hands thoroughly after handling. Keep away from food, drink and animal feeding stuffs. Wash contaminated clothing before reuse.

9. **PHYSICAL AND CHEMICAL PROPERTIES**

Appearance	Light gray column granular
Odor	Odorless
Water	≤3%
Melting/Freezing Point	Not determined
Suspension	≥80%
pH	5-8
Wet sieve test through 75 µm test sieve	≥98%
Wettability	≤60s
Solubilities	Not determined
Flash Point	Not determined
Persistence foaming	≤60ml
Spontaneity of dispersion	≥90%
Density	Pour density 0.58g/ml, tap density 0.63 g/mL

*Listed density is an approximate value and does not necessarily represent that of a specific batch

10. **STABILITY AND REACTIVITY**

Product reactivity: Not data available

Chemical stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Conditions to Avoid: Elevated Temperature. Storage near to reactive materials.

Incompatible materials: Strong oxidizing agents.

Hazardous Decomposition Products: Thermal decomposition can lead to release of irritating and toxic gases and vapors. Nitrogen oxides (NO_x). Carbon oxides.

11. **TOXICOLOGICAL INFORMATION**

Acute Toxicity

Oral Toxicity LD 50 (rats)	Cutoff value 500 mg/kg
Dermal Toxicity LD 50 (rabbits)	>2000 mg/kg
Inhalation Toxicity LC 50 (rats)	>5.168 mg/L (4 h)
Eye Irritation (rabbits)	Reversible irritation effect on the eye
Skin Irritation (rabbits)	Non-irritating
Skin Sensitization (guinea pigs)	Non-sensitizer

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed **NTP:** Not Listed

IARC: Not Listed **OSHA:** Not Listed

MUTAGENIC TOXICITY: No evidence of mutagenic effects during in vivo and in vitro assays.

REPRODUCTIVE TOXICITY: No evidence in animal studies.

12. **ECOLOGICAL INFORMATION**

The information presented below is based on the toxicity data for the constituent, Bromacil:

Toxicity to algae/aquatic plants: 72 h *Skeletonema costatum* EC₅₀ 0.068mg/L

Toxicity to fish: 96 h *Pimephales promelas* LC₅₀ flow-through 180 - 192 mg/L

96 h *Lepomis macrochirus* LC₅₀ static 32mg/L

96 h *Oncorhynchus mykiss* LC₅₀ static 30 - 40mg/L

Persistence and degradability: Not readily biodegradable.

Bioaccumulation: Not likely to bioaccumulate.

13. **DISPOSAL CONSIDERATIONS**

PRODUCT DISPOSAL: Pesticide wastes may be acutely hazardous. Improper disposal is a violation of federal law. Disposal should be in accordance with applicable regional, national and local laws and regulations. Contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance on proper disposal of waste product.

CONTAINER DISPOSAL: Disposal should be in accordance with applicable regional, national and local laws and regulations. Consult product label for additional information. Do not reuse container.

14. **TRANSPORTATION INFORMATION**

UN Number: 3077

UN Proper Shipping Name:

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (Bromacil)

Transport hazard class: 9

Packing group: III

Marine pollutant: Yes

This information is not intended to convey all specific regulatory or operational requirements/ information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. **REGULATORY INFORMATION**

International Inventories

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
IECSC	Complies
KECL	Complies
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Bromacil - 314-40-9	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	No
Sudden release of pressure hazard	No
Reactive Hazard	No

16. **OTHER INFORMATION**

This SDS summarizes 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 the 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 the company.