# **AC Brag 200 Herbicide**

# **Axichem Pty Ltd**

Chemwatch: 20-8924 Version No: 8.1

Safety Data Sheet according to Work Health and Safety Regulations (Hazardous Chemicals) 2023 and ADG requirements

Chemwatch Hazard Alert Code: 2

Issue Date: **11/03/2025** Print Date: **11/03/2025** L.GHS.AUS.EN

# SECTION 1 Identification of the substance / mixture and of the company / undertaking

# **Product Identifier**

Product name	AC Brag 200 Herbicide	
Chemical Name	ot Applicable	
Synonyms	Available	
Proper shipping name	IVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bromoxynil octanoate)	
Chemical formula	lot Applicable	
Other means of identification	Not Available	

#### Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses

For the control of weeds in wheat, oats, barley, cereal rye and triticale (alone or undersown), linseed, clover and lucerene pastures, turf fallow, non-crop, roadsides and rights-of-way.

# Details of the manufacturer or supplier of the safety data sheet

Registered company name	Axichem Pty Ltd	
Address	Palings Court Nerang QLD 4211 Australia	
Telephone	5596 1736	
Fax	Not Available	
Website	www.axichem.com.au	
Email	msds@axichem.com.au	

# **Emergency telephone number**

Association / Organisation	<b>CHEMWATCH EMERGENCY RESPONSE (24/7)</b> +61 1800 951 288	
Emergency telephone number(s)		
Other emergency telephone number(s)	+61 3 9573 3188	

# **SECTION 2 Hazards identification**

# Classification of the substance or mixture

COMBUSTIBLE LIQUID, regulated for storage purposes only

Poisons Schedule	S7
Classification <sup>[1]</sup>	Flammable Liquids Category 4, Aspiration Hazard Category 1, Acute Toxicity (Dermal) Category 4, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 2A, Acute Toxicity (Inhalation) Category 4, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Specific Target Organ Toxicity - Single Exposure (Narcotic Effects) Category 3, Reproductive Toxicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2, Hazardous to the Aquatic Environment Long-Term Hazard Category 1
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI

# Label elements

Hazard pictogram(s)







Issue Date: 11/03/2025 Page 2 of 14 Print Date: 11/03/2025 AC Brag 200 Herbicide

Signal word	Danger	
statement(s)		
H227	Combustible liquid	

# Hazard

H227 Combustible liquid. H304 May be fatal if swallowed and enters airways. H312 Harmful in contact with skin. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H332 Harmful if inhaled. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H361d Suspected of damaging the unborn child. H373 May cause damage to organs through prolonged or repeated exposure. H410 Very toxic to aquatic life with long lasting effects.  AUH066 Repeated exposure may cause skin dryness and cracking.				
H312 Harmful in contact with skin.  H317 May cause an allergic skin reaction.  H319 Causes serious eye irritation.  H332 Harmful if inhaled.  H335 May cause respiratory irritation.  H336 May cause drowsiness or dizziness.  H361d Suspected of damaging the unborn child.  H373 May cause damage to organs through prolonged or repeated exposure.  Very toxic to aquatic life with long lasting effects.	H227	Combustible liquid.		
H317 May cause an allergic skin reaction.  Causes serious eye irritation.  H332 Harmful if inhaled.  H335 May cause respiratory irritation.  H336 May cause drowsiness or dizziness.  H361d Suspected of damaging the unborn child.  H373 May cause damage to organs through prolonged or repeated exposure.  Very toxic to aquatic life with long lasting effects.	H304	May be fatal if swallowed and enters airways.		
H319 Causes serious eye irritation.  H332 Harmful if inhaled.  H335 May cause respiratory irritation.  H336 May cause drowsiness or dizziness.  H361d Suspected of damaging the unborn child.  H373 May cause damage to organs through prolonged or repeated exposure.  H410 Very toxic to aquatic life with long lasting effects.	H312	farmful in contact with skin.		
H332 Harmful if inhaled.  H335 May cause respiratory irritation.  H336 May cause drowsiness or dizziness.  H361d Suspected of damaging the unborn child.  H373 May cause damage to organs through prolonged or repeated exposure.  H410 Very toxic to aquatic life with long lasting effects.	H317	May cause an allergic skin reaction.		
H335 May cause respiratory irritation.  H336 May cause drowsiness or dizziness.  Suspected of damaging the unborn child.  H373 May cause damage to organs through prolonged or repeated exposure.  H410 Very toxic to aquatic life with long lasting effects.	H319	auses serious eye irritation.		
H336 May cause drowsiness or dizziness.  H361d Suspected of damaging the unborn child.  H373 May cause damage to organs through prolonged or repeated exposure.  H410 Very toxic to aquatic life with long lasting effects.	H332	Harmful if inhaled.		
H361d Suspected of damaging the unborn child.  H373 May cause damage to organs through prolonged or repeated exposure.  H410 Very toxic to aquatic life with long lasting effects.	H335	May cause respiratory irritation.		
H373 May cause damage to organs through prolonged or repeated exposure.  H410 Very toxic to aquatic life with long lasting effects.	H336	May cause drowsiness or dizziness.		
H410 Very toxic to aquatic life with long lasting effects.	H361d	Suspected of damaging the unborn child.		
	H373	May cause damage to organs through prolonged or repeated exposure.		
AUH066 Repeated exposure may cause skin dryness and cracking.	H410	Very toxic to aquatic life with long lasting effects.		
	AUH066	Repeated exposure may cause skin dryness and cracking.		

# Precautionary statement(s) Prevention

, , , , , , , , , , , , , , , , , , , ,	(a) (a) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c		
P201	P201 Obtain special instructions before use.		
P210	Geep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.		
P260	o not breathe mist/vapours/spray.		
P271	e only outdoors or in a well-ventilated area.		
P280	Wear protective gloves, protective clothing, eye protection and face protection.		
P273	Avoid release to the environment.		
P264	Wash all exposed external body areas thoroughly after handling.		
P272	P272 Contaminated work clothing should not be allowed out of the workplace.		

# Precautionary statement(s) Response

IF SWALLOWED: Immediately call a POISON CENTER/doctor/physician/first aider.		
Do NOT induce vomiting.		
IF exposed or concerned: Get medical advice/ attention.		
In case of fire: Use alcohol resistant foam or normal protein foam to extinguish.		
IF ON SKIN: Wash with plenty of water and soap.		
IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.		
Call a POISON CENTER/doctor/physician/first aider/if you feel unwell.		
If skin irritation or rash occurs: Get medical advice/attention.		
If eye irritation persists: Get medical advice/attention.		
Take off contaminated clothing and wash it before reuse.		
P391 Collect spillage.		
IF INHALED: Remove person to fresh air and keep comfortable for breathing.		

#### Precautionary statement(s) Storage

Trouble for the first of the fi		
P405	Store locked up.	
P403+P233	Store in a well-ventilated place. Keep container tightly closed.	

# Precautionary statement(s) Disposal

P501	Dispose of contents/container to authorised hazardous or special waste collection point in accordance with any local regulation.

# **SECTION 3 Composition / information on ingredients**

# **Substances**

See section below for composition of Mixtures

# **Mixtures**

Page 3 of 14 Issue Date: 11/03/2025 Version No. 8.1 Print Date: 11/03/2025 AC Brag 200 Herbicide

CAS No	%[weight]	Name
1689-99-2	19	<u>bromoxynil octanoate</u>
Not Available		(200 g/l)
64742-95-6.	60	aromatic 150
Not Available	<10	Ingredients determined not to be hazardous
Legend:	1. Classified by Chemwatch; 2. Classification drawn from HCIS; 3. Classification drawn from Regulation (EU) No 1272/2008 - Annex VI; 4. Classification drawn from C&L * EU IOELVs available	

#### **SECTION 4 First aid measures**

Eye Contact	If this product comes in contact with the eyes:  Immediately hold eyelids apart and flush the eye continuously with running water.  Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.  Continue flushing until advised to stop by the Poisons Information Centre or a doctor, or for at least 15 minutes.  Transport to hospital or doctor without delay.  Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.
Skin Contact	If skin contact occurs:  Immediately remove all contaminated clothing, including footwear.  Flush skin and hair with running water (and soap if available).  Seek medical attention in event of irritation.
Inhalation	<ul> <li>If fumes or combustion products are inhaled remove from contaminated area.</li> <li>Lay patient down. Keep warm and rested.</li> <li>Prostheses such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.</li> <li>Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.</li> <li>Transport to hospital, or doctor, without delay.</li> </ul>
Ingestion	<ul> <li>If swallowed do NOT induce vomiting.</li> <li>If vomiting occurs, lean patient forward or place on left side (head-down position, if possible) to maintain open airway and prevent aspiration.</li> <li>Observe the patient carefully.</li> <li>Never give liquid to a person showing signs of being sleepy or with reduced awareness; i.e. becoming unconscious.</li> <li>Give water to rinse out mouth, then provide liquid slowly and as much as casualty can comfortably drink.</li> <li>Seek medical advice.</li> <li>Avoid giving milk or oils.</li> <li>Avoid giving alcohol.</li> <li>If spontaneous vomiting appears imminent or occurs, hold patient's head down, lower than their hips to help avoid possible aspiration of vomitus.</li> </ul>

# Indication of any immediate medical attention and special treatment needed

Any material aspirated during vomiting may produce lung injury. Therefore emesis should not be induced mechanically or pharmacologically. Mechanical means should be used if it is considered necessary to evacuate the stomach contents; these include gastric lavage after endotracheal intubation. If spontaneous vomiting has occurred after ingestion, the patient should be monitored for difficult breathing, as adverse effects of aspiration into the lungs may be delayed up to 48 hours.

Marked fatigue, tremendous thirst, profuse sweating, flushing of the face are all characteristics of intoxication by dinitrophenol derivatives. These may be followed by restlessness, anxiety, excitement which may occasionally lead to convulsions. Rises in body temperature (proportional to dose) may result in severe hyperpyexia. tachycardia, hyperpnoea, dyspnoea, cyanosis and muscle cramps characterise later symptomatology. Late complications include decreased urine output with albuminuria, casts, pigment, and sometimes blood cells due to toxic nephritis. Jaundice and liver tenderness also develop as a result of toxic hepatitis. TREATMENT for dinitrophenol intoxications:

- Gastric lavage with large quantities of 5% sodium bicarbonate solution leaving 1-2 pints in the stomach.
- ▶ Saline cathartics e.g. 15-30 gm sodium or magnesium sulfate in water.
- Cold packs and alcohol sponges to reduce body temperature. Antipyretic drugs are ineffective here. Cold water enemas have been used. Intensive efforts to correct a dinitrophenol fever are justified. If it can be accomplished, mild hypothermia (rectal temperature between 33.5 and 36 deg. C) is desirable because dinitrophenol appears to lose its metabolic activity at reduced temperature. [DO NOT give atropine, aspirin, and other salicylates to control hyperthermia, as these agents appear likely to enhance the toxicity of phenolic substances. Aspirin also enhances the uncoupling of oxidative phosphorylation.]
- Fluids, orally or intravenously (e.g. glucose in saline, 1000 ml) to correct dehydration and acidosis.
- P Because dinitrophenol is actively transported by the renal organic acid transport processes in some species, a trial of forced diuresis with alkalisation of the urine is warranted.
- Oxygen therapy. Artificial ventilation is needed. [Administer oxygen by mask to minimise anoxia].
- Prophylactic measures in anticipation of kidney and liver insufficiency.

GOSSELIN, SMITH HODGE; Clinical Toxicology of Commercial Products 5th Ed.

Diazepam may be used, if necessary, for the treatment of convulsions, to reduce body heat and control agitation. Be prepared to counter respirator depression and hypotension which may occur following administration of anticonvulsants. Treat symptomatically.

AC Brag 200 Herbicide

Chemwatch: 20-8924 Page 4 of 14 Issue Date: 11/03/2025 Version No: 8.1 Print Date: 11/03/2025

# **SECTION 5 Firefighting measures**

# **Extinguishing media**

- ▶ Foam.
- Dry chemical powder.
- BCF (where regulations permit).
- Carbon dioxide.
- Water spray or fog Large fires only.

# Special hazards arising from the substrate or mixture

Fire Incompatibility

• Avoid contamination with oxidising agents i.e. nitrates, oxidising acids, chlorine bleaches, pool chlorine etc. as ignition may

Advice for firefighters			
Fire Fighting	<ul> <li>Alert Fire Brigade and tell them location and nature of hazard.</li> <li>Wear full body protective clothing with breathing apparatus.</li> <li>Prevent, by any means available, spillage from entering drains or water course.</li> <li>Use water delivered as a fine spray to control fire and cool adjacent area.</li> <li>Avoid spraying water onto liquid pools.</li> <li>DO NOT approach containers suspected to be hot.</li> <li>Cool fire exposed containers with water spray from a protected location.</li> <li>If safe to do so, remove containers from path of fire.</li> </ul>		
Fire/Explosion Hazard	<ul> <li>▶ Combustible.</li> <li>▶ Slight fire hazard when exposed to heat or flame.</li> <li>▶ Heating may cause expansion or decomposition leading to violent rupture of containers.</li> <li>▶ On combustion, may emit toxic fumes of carbon monoxide (CO).</li> <li>▶ May emit acrid smoke.</li> <li>▶ Mists containing combustible materials may be explosive.</li> <li>Combustion products include:</li> <li>carbon dioxide (CO2)</li> <li>hydrogen bromide</li> <li>hydrogen chloride</li> <li>phosgene</li> <li>nitrogen oxides (NOx)</li> <li>sulfur oxides (SOx)</li> <li>other pyrolysis products typical of burning organic material.</li> </ul>		
HAZCHEM	•3Z		

# **SECTION 6 Accidental release measures**

# Personal precautions, protective equipment and emergency procedures

See section 8

# **Environmental precautions**

See section 12

# Methods and material for containment and cleaning up

Minor Spills	<ul> <li>Environmental hazard - contain spillage.</li> <li>Clean up all spills immediately.</li> <li>Avoid breathing vapours and contact with skin and eyes.</li> <li>Control personal contact with the substance, by using protective equipment.</li> <li>Contain and absorb spill with sand, earth, inert material or vermiculite.</li> <li>Wipe up.</li> <li>Place in a suitable, labelled container for waste disposal.</li> </ul>
Major Spills	Environmental hazard - contain spillage.  Moderate hazard.  Clear area of personnel and move upwind.  Alert Fire Brigade and tell them location and nature of hazard.  Wear breathing apparatus plus protective gloves.  Prevent, by any means available, spillage from entering drains or water course.  No smoking, naked lights or ignition sources.  Increase ventilation.  Stop leak if safe to do so.  Contain spill with sand, earth or vermiculite.  Collect recoverable product into labelled containers for recycling.  Absorb remaining product with sand, earth or vermiculite.  Collect solid residues and seal in labelled drums for disposal.  Wash area and prevent runoff into drains.  If contamination of drains or waterways occurs, advise emergency services.

Chemwatch: 20-8924

AC Brag 200 Herbicide

Page 5 of 14 Issue Date: 11/03/2025 Version No: 8.1 Print Date: 11/03/2025

Personal Protective Equipment advice is contained in Section 8 of the SDS.

# **SECTION 7 Handling and storage**

Safe handling

#### Precautions for safe handling

- Containers, even those that have been emptied, may contain explosive vapours.
- Do NOT cut, drill, grind, weld or perform similar operations on or near containers.
- DO NOT allow clothing wet with material to stay in contact with skin
- ▶ Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.
- ▶ Use in a well-ventilated area.
- Prevent concentration in hollows and sumps.
- DO NOT enter confined spaces until atmosphere has been checked.
- Avoid smoking, naked lights or ignition sources.
- Avoid contact with incompatible materials.
- ▶ When handling, **DO NOT** eat, drink or smoke.
- Keep containers securely sealed when not in use.
- Avoid physical damage to containers.
- Always wash hands with soap and water after handling.
- Work clothes should be laundered separately.
- Use good occupational work practice.
- Observe manufacturer's storage and handling recommendations contained within this SDS.
- ▶ Atmosphere should be regularly checked against established exposure standards to ensure safe working conditions.

#### Other information

- Store in original containers
- Keep containers securely sealed.
- Store in a cool, dry, well-ventilated area.
- Store away from incompatible materials and foodstuff containers.
- Protect containers against physical damage and check regularly for leaks.
- ▶ Observe manufacturer's storage and handling recommendations contained within this SDS.

#### Conditions for safe storage, including any incompatibilities

#### Suitable container

- Metal can or drum
- Packaging as recommended by manufacturer.
- Check all containers are clearly labelled and free from leaks.

#### Nitrophenols are:

- combustible solids which may form explosive mixtures with air when finely divided
- strong oxidisers which react violently with reducing agents
- reactive with combustible, organic and other easily oxidisable materials
- thermally unstable burning in the absence of air causing fast pressure rises; closed containers may explode
- able to form shock-sensitive explosive mixtures with chlorine trifluoride
- ▶ incompatible with strong acids, caustics, aliphatic amines, amides, diethylamine, potassium hydride, potassium hydroxide

# Storage incompatibility

- Avoid reaction with oxidising agents
- ▶ Phenols are incompatible with strong reducing substances such as hydrides, nitrides, alkali metals, and sulfides.
- Avoid use of aluminium, copper and brass alloys in storage and process equipment.
- ▶ Heat is generated by the acid-base reaction between phenols and bases.
- ▶ Phenols are sulfonated very readily (for example, by concentrated sulfuric acid at room temperature), these reactions generate heat.
- Phenols are nitrated very rapidly, even by dilute nitric acid.
- Nitrated phenols often explode when heated. Many of them form metal salts that tend toward detonation by rather mild

# **SECTION 8 Exposure controls / personal protection**

# **Control parameters**

Occupational Exposure Limits (OEL)

# INGREDIENT DATA

# Not Available

Ingredient	Original IDLH	Revised IDLH
bromoxynil octanoate	Not Available	Not Available
aromatic 150	Not Available	Not Available

# MATERIAL DATA

#### **Exposure controls**

Chemwatch: 20-8924 Page 6 of 14 Issue Date: 11/03/2025
Version No: 8.1 Print Date: 11/03/2025

#### AC Brag 200 Herbicide

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to

The basic types of engineering controls are:

provide this high level of protection.

Process controls which involve changing the way a job activity or process is done to reduce the risk.

Enclosure and/or isolation of emission source which keeps a selected hazard "physically" away from the worker and ventilation that strategically "adds" and "removes" air in the work environment. Ventilation can remove or dilute an air contaminant if designed properly. The design of a ventilation system must match the particular process and chemical or contaminant in use. Employers may need to use multiple types of controls to prevent employee overexposure.

General exhaust is adequate under normal operating conditions. Local exhaust ventilation may be required in specific circumstances. If risk of overexposure exists, wear approved respirator. Correct fit is essential to obtain adequate protection. Provide adequate ventilation in warehouse or closed storage areas. Air contaminants generated in the workplace possess varying "escape" velocities which, in turn, determine the "capture velocities" of fresh circulating air required to effectively remove the contaminant.

# Appropriate engineering controls

Type of Contaminant:	Air Speed:
solvent, vapours, degreasing etc., evaporating from tank (in still air).	0.25-0.5 m/s (50- 100 f/min)
aerosols, fumes from pouring operations, intermittent container filling, low speed conveyer transfers, welding, spray drift, plating acid fumes, pickling (released at low velocity into zone of active generation)	0.5-1 m/s (100- 200 f/min.)
direct spray, spray painting in shallow booths, drum filling, conveyer loading, crusher dusts, gas discharge (active generation into zone of rapid air motion)	1-2.5 m/s (200- 500 f/min.)
grinding, abrasive blasting, tumbling, high speed wheel generated dusts (released at high initial velocity into zone of very high rapid air motion).	2.5-10 m/s (500- 2000 f/min.)

Within each range the appropriate value depends on:

Lower end of the range	Upper end of the range
1: Room air currents minimal or favourable to capture	1: Disturbing room air currents
2: Contaminants of low toxicity or of nuisance value only.	2: Contaminants of high toxicity
3: Intermittent, low production.	3: High production, heavy use
4: Large hood or large air mass in motion	4: Small hood-local control only

Simple theory shows that air velocity falls rapidly with distance away from the opening of a simple extraction pipe. Velocity generally decreases with the square of distance from the extraction point (in simple cases). Therefore the air speed at the extraction point should be adjusted, accordingly, after reference to distance from the contaminating source. The air velocity at the extraction fan, for example, should be a minimum of 1-2 m/s (200-400 f/min) for extraction of solvents generated in a tank 2 meters distant from the extraction point. Other mechanical considerations, producing performance deficits within the extraction apparatus, make it essential that theoretical air velocities are multiplied by factors of 10 or more when extraction systems are installed or used.

Individual protection measures, such as personal protective equipment











# Eye and face protection

- Safety glasses with side shields.
- ► Chemical goggles. [AS/NZS 1337.1, EN166 or national equivalent]
- Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59].

#### Skin protection

See Hand protection below

#### Hands/feet protection

- Wear chemical protective gloves, e.g. PVC.
- ▶ Wear safety footwear or safety gumboots, e.g. Rubber

#### NOTE:

- The material may produce skin sensitisation in predisposed individuals. Care must be taken, when removing gloves and other protective equipment, to avoid all possible skin contact.
- ► Contaminated leather items, such as shoes, belts and watch-bands should be removed and destroyed.

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

The exact break through time for substances has to be obtained from the manufacturer of the protective gloves and has to be observed when making a final choice.

Personal hygiene is a key element of effective hand care. Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

Suitability and durability of glove type is dependent on usage. Important factors in the selection of gloves include:

- $\boldsymbol{\cdot}$  frequency and duration of contact,
- · chemical resistance of glove material,
- $\boldsymbol{\cdot}$  glove thickness and
- dexterity

# AC Brag 200 Herbicide

Issue Date: 11/03/2025 Print Date: 11/03/2025

Select gloves tested to a relevant standard (e.g. Europe EN 374, US F739, AS/NZS 2161.1 or national equivalent).

- · When prolonged or frequently repeated contact may occur, a glove with a protection class of 5 or higher (breakthrough time greater than 240 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · When only brief contact is expected, a glove with a protection class of 3 or higher (breakthrough time greater than 60 minutes according to EN 374, AS/NZS 2161.10.1 or national equivalent) is recommended.
- · Some glove polymer types are less affected by movement and this should be taken into account when considering gloves for long-term use.
- · Contaminated gloves should be replaced.

As defined in ASTM F-739-96 in any application, gloves are rated as:

- · Excellent when breakthrough time > 480 min
- $\cdot$  Good when breakthrough time > 20 min
- · Fair when breakthrough time < 20 min
- · Poor when glove material degrades

For general applications, gloves with a thickness typically greater than 0.35 mm, are recommended.

It should be emphasised that glove thickness is not necessarily a good predictor of glove resistance to a specific chemical, as the permeation efficiency of the glove will be dependent on the exact composition of the glove material. Therefore, glove selection should also be based on consideration of the task requirements and knowledge of breakthrough times.

Glove thickness may also vary depending on the glove manufacturer, the glove type and the glove model. Therefore, the manufacturers technical data should always be taken into account to ensure selection of the most appropriate glove for the task. Note: Depending on the activity being conducted, gloves of varying thickness may be required for specific tasks. For example:

- · Thinner gloves (down to 0.1 mm or less) may be required where a high degree of manual dexterity is needed. However, these gloves are only likely to give short duration protection and would normally be just for single use applications, then disposed of.
- · Thicker gloves (up to 3 mm or more) may be required where there is a mechanical (as well as a chemical) risk i.e. where there is abrasion or puncture potential

Gloves must only be worn on clean hands. After using gloves, hands should be washed and dried thoroughly. Application of a non-perfumed moisturiser is recommended.

#### **Body protection**

#### See Other protection below

# Other protection

Respiratory protection

- Overalls.
- P.V.C apron.
- Barrier cream.Skin cleansing cream.
- Eye wash unit.

Type A-P Filter of sufficient capacity. (AS/NZS 1716 & 1715, EN 143:2000 & 149:2001, ANSI Z88 or national equivalent)

Selection of the Class and Type of respirator will depend upon the level of breathing zone contaminant and the chemical nature of the contaminant. Protection Factors (defined as the ratio of contaminant outside and inside the mask) may also be important.

Required minimum protection factor	Maximum gas/vapour concentration present in air p.p.m. (by volume)	Half-face Respirator	Full-Face Respirator
up to 10	1000	A-AUS / Class1 P3	-
up to 50	1000	-	A-AUS / Class 1 P3
up to 50	5000	Airline *	-
up to 100	5000	-	A-2 P3
up to 100	10000	-	A-3 P3
100+			Airline**

<sup>\* -</sup> Continuous Flow \*\* - Continuous-flow or positive pressure demand

A(All classes) = Organic vapours, B AUS or B1 = Acid gasses, B2 = Acid gas or hydrogen cyanide(HCN), B3 = Acid gas or hydrogen cyanide(HCN), E = Sulfur dioxide(SO2), G = Agricultural chemicals, K = Ammonia(NH3), Hg = Mercury, NO = Oxides of nitrogen, MB = Methyl bromide, AX = Low boiling point organic compounds(below 65 degC)

# **SECTION 9 Physical and chemical properties**

# Information on basic physical and chemical properties

Appearance	Amber liquid with hydrocarbon odour; forms an emulsion in water.		
Physical state	Liquid	Relative density (Water = 1)	1.030
Odour	Not Available	Partition coefficient n- octanol / water	Not Available
Odour threshold	Not Available	Auto-ignition temperature (°C)	Not Available
pH (as supplied)	Not Applicable	Decomposition temperature (°C)	Not Available
Melting point / freezing point (°C)	Not Available	Viscosity (cSt)	Not Available

# AC Brag 200 Herbicide

Issue Date: 11/03/2025 Print Date: 11/03/2025

Initial boiling point and boiling range (°C)	178-209	Molecular weight (g/mol)	Not Applicable
Flash point (°C)	68	Taste	Not Available
Evaporation rate	Not Available	Explosive properties	Not Available
Flammability	Combustible.	Oxidising properties	Not Available
Upper Explosive Limit (%)	7.0 for solvent	Surface Tension (dyn/cm or mN/m)	Not Available
Lower Explosive Limit (%)	0.6 for solvent	Volatile Component (%vol)	~60
Vapour pressure (kPa)	Not Available	Gas group	Not Available
Solubility in water	Immiscible	pH as a solution (1%)	Not Applicable
Vapour density (Air = 1)	Not Available	VOC g/L	Not Available
Heat of Combustion (kJ/g)	Not Available	Ignition Distance (cm)	Not Available
Flame Height (cm)	Not Available	Flame Duration (s)	Not Available
Enclosed Space Ignition Time Equivalent (s/m3)	Not Available	Enclosed Space Ignition Deflagration Density (g/m3)	Not Available

# **SECTION 10 Stability and reactivity**

Reactivity	See section 7	
Chemical stability	Unstable in the presence of incompatible materials. Product is considered stable. Hazardous polymerisation will not occur.	
Possibility of hazardous reactions	See section 7	
Conditions to avoid	See section 7	
Incompatible materials	See section 7	
Hazardous decomposition products	See section 5	

# **SECTION 11 Toxicological information**

# Information on toxicological effects

information on toxicologic	ai effects		
a) Acute Toxicity	There is sufficient evidence to classify this material as acutely toxic.		
b) Skin Irritation/Corrosion	Based on available data, the classification criteria are not met.		
c) Serious Eye Damage/Irritation	There is sufficient evidence to classify this material as eye damaging or irritating		
d) Respiratory or Skin sensitisation	There is sufficient evidence to classify this material as sensitising to skin or the respiratory system		
e) Mutagenicity	Based on available data, the classification criteria are not met.		
f) Carcinogenicity	Based on available data, the classification criteria are not met.		
g) Reproductivity	There is sufficient evidence to classify this material as toxic to reproductivity		
h) STOT - Single Exposure	There is sufficient evidence to classify this material as toxic to specific organs through single exposure		
i) STOT - Repeated Exposure	There is sufficient evidence to classify this material as toxic to specific organs through repeated exposure		
j) Aspiration Hazard	There is sufficient evidence to classify this material as an aspiration hazard		
Inhaled	Acute effects from inhalation of high concentrations of vapour are pulmonary irritation, including coughing, with nausea; central nervous system depression - characterised by headache and dizziness, increased reaction time, fatigue and loss of co-ordination Inhalation hazard is increased at higher temperatures.		
Ingestion	Accidental ingestion of the material may be harmful; animal experiments indicate that ingestion of less than 150 gram may be fatal or may produce serious damage to the health of the individual.  Swallowing of the liquid may cause aspiration of vomit into the lungs with the risk of haemorrhaging, pulmonary oedema, progressing to chemical pneumonitis; serious consequences may result.  Signs and symptoms of chemical (aspiration) pneumonitis may include coughing, gasping, choking, burning of the mouth, difficult breathing, and bluish coloured skin (cyanosis).  The biochemical action of this class of material (including bromoxynil, ioxynil) is the same as that of dinitrophenol and dinitro-ocresol. Exposure may cause disturbance of cellular oxidative phosphorylation process, giving rise to pathological sweating followed by thirst, emaciation and functional renal insufficiency. [CISDOC]  Hyperaemia of all organs and oedema of the lungs and brains were seen at autopsy in a man who ingested approximately 43 mg/kg of the congener, ioxynil, in combination with alcohol. Signs of poisoning include raised temperature, increased respiration rate, disorientation and excitability.		
Skin Contact	Skin contact with the material may damage the health of the individual; systemic effects may result following absorption.		
	Continued		

Chemwatch: 20-8924 Page 9 of 14
Version No: 8.1

#### AC Brag 200 Herbicide

Issue Date: 11/03/2025 Print Date: 11/03/2025

The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.

The material may accentuate any pre-existing dermatitis condition

Repeated exposure may cause skin cracking, flaking or drying following normal handling and use.

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream through, for example, cuts, abrasions, puncture wounds or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

# Eye

Evidence exists, or practical experience predicts, that the material may cause eye irritation in a substantial number of individuals and/or may produce significant ocular lesions which are present twenty-four hours or more after instillation into the eye(s) of experimental animals. Repeated or prolonged eye contact may cause inflammation characterised by a temporary redness (similar to windburn) of the conjunctiva (conjunctivitis); temporary impairment of vision and/or other transient eye damage/ulceration may occur.

Practical experience shows that skin contact with the material is capable either of inducing a sensitisation reaction in a substantial number of individuals, and/or of producing a positive response in experimental animals.

Substances that can cause occupational asthma (also known as asthmagens and respiratory sensitisers) can induce a state of specific airway hyper-responsiveness via an immunological, irritant or other mechanism. Once the airways have become hyper-responsive, further exposure to the substance, sometimes even to tiny quantities, may cause respiratory symptoms. These symptoms can range in severity from a runny nose to asthma. Not all workers who are exposed to a sensitiser will become hyper-responsive and it is impossible to identify in advance who are likely to become hyper-responsive.

Substances than can cuase occupational asthma should be distinguished from substances which may trigger the symptoms of asthma in people with pre-existing air-way hyper-responsiveness. The latter substances are not classified as asthmagens or respiratory sensitisers

Wherever it is reasonably practicable, exposure to substances that can cuase occupational asthma should be prevented. Where this is not possible the primary aim is to apply adequate standards of control to prevent workers from becoming hyperresponsive.

# Chronic

Activities giving rise to short-term peak concentrations should receive particular attention when risk management is being considered. Health surveillance is appropriate for all employees exposed or liable to be exposed to a substance which may cause occupational asthma and there should be appropriate consultation with an occupational health professional over the degree of risk and level of surveillance.

Exposure to the material may cause concerns for humans owing to possible developmental toxic effects, generally on the basis that results in appropriate animal studies provide strong suspicion of developmental toxicity in the absence of signs of marked maternal toxicity, or at around the same dose levels as other toxic effects but which are not a secondary non-specific consequence of other toxic effects.

Chronic solvent inhalation exposures may result in nervous system impairment and liver and blood changes. [PATTYS] Subchronic bromoxynil feeding studies with rats and dogs produced lower body weights. Increased foetal weights, increased uterine deaths and an increased number of foetuses with an extra 14th rib were noted in a study using pregnant rats fed at 35 mg/kg/day. Repeated doses of 60 mg/kg/day in pregnant rabbits produced hydrocephalus, microphthalmia, anophthalmia and severe defects in ossification of the skull. A increased incidence of adenomas and carcinomas of the liver were noted in male mice.

Occupational chronic exposure to both ioxynil and bromoxynil produce inordinate sweating and thirst, fever, headache, dizziness, vomiting, asthenia, weight loss, and myalgia of the legs. The onset of these effects is insidious. Removal of effected workers from exposure resulted in prompt recovery. Pathology showed a transitory elevation of creatinine phosphokinase, LDH aldolase and SGOT.

AC Brag 200 Herbicide	TOXICITY	IRRITATION
	Not Available	Not Available
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: 1675 mg/kg <sup>[2]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
bromoxynil octanoate	Inhalation (Rat) LC50: 0.721 mg/l4h <sup>[1]</sup>	Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
	Oral (Rat) LD50: 141 mg/kg <sup>[1]</sup>	
	TOXICITY	IRRITATION
	Dermal (rabbit) LD50: >1900 mg/kg <sup>[1]</sup>	Eye (Rodent - rabbit): 100uL/24H - Mild
	Inhalation (Rat) LC50: >4.42 mg/L4h <sup>[1]</sup>	Eye: adverse effect observed (irritating) <sup>[1]</sup>
aromatic 150	Oral (Rat) LD50: >4500 mg/kg <sup>[1]</sup>	Eye: no adverse effect observed (not irritating) <sup>[1]</sup>
		Skin (Rodent - rabbit): 500uL/24H - Mild
		Skin: adverse effect observed (irritating) <sup>[1]</sup>
		Skin: no adverse effect observed (not irritating) <sup>[1]</sup>
<u> </u>		

Legend:

1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS. Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances

BROMOXYNIL OCTANOATE

NOEL (90 day) for rats 15.6 mg/kg, dogs 5 mg/kg daily.

The following information refers to contact allergens as a group and may not be specific to this product.

 Page 10 of 14
 Issue Date: 11/03/2025

 AC Brag 200 Herbicide
 Print Date: 11/03/2025

Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.

Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.

#### **AROMATIC 150**

Version No: 8.1

For petroleum: This product contains benzene, which can cause acute myeloid leukaemia, and n-hexane, which can be metabolized to compounds which are toxic to the nervous system. This product contains toluene, and animal studies suggest high concentrations of toluene lead to hearing loss. This product contains ethyl benzene and naphthalene, from which animal testing shows evidence of tumour formation.

Cancer-causing potential: Animal testing shows inhaling petroleum causes tumours of the liver and kidney; these are however not considered to be relevant in humans.

Mutation-causing potential: Most studies involving gasoline have returned negative results regarding the potential to cause mutations, including all recent studies in living human subjects (such as in petrol service station attendants).

Reproductive toxicity: Animal studies show that high concentrations of toluene (>0.1%) can cause developmental effects such as lower birth weight and developmental toxicity to the nervous system of the foetus. Other studies show no adverse effects on the foetus.

Human effects: Prolonged or repeated contact may cause defatting of the skin which can lead to skin inflammation and may make the skin more susceptible to irritation and penetration by other materials.

Animal testing shows that exposure to gasoline over a lifetime can cause kidney cancer, but the relevance in humans is questionable.

Acute Toxicity	✓	Carcinogenicity	×
Skin Irritation/Corrosion	×	Reproductivity	✓
Serious Eye Damage/Irritation	<b>~</b>	STOT - Single Exposure	<b>~</b>
Respiratory or Skin sensitisation	<b>~</b>	STOT - Repeated Exposure	<b>~</b>
Mutagenicity	×	Aspiration Hazard	<b>~</b>

**Legend: X** − Data either not available or does not fill the criteria for classification

✓ – Data available to make classification

# **SECTION 12 Ecological information**

#### **Toxicity**

	Endpoint	Test Duration (hr)	Species	Value	Source
AC Brag 200 Herbicide	Not Available	Not Available	Not Available	Not Available	Not Availabl
	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	96h	Algae or other aquatic plants	4.43mg/l	4
	NOEC(ECx)	840h	Fish	0.003mg/L	2
bromoxynil octanoate	EC50	48h	Crustacea	0.015- 0.056mg/L	4
	LC50	96h	Fish	0.028- 0.062mg/L	4
aromatic 150	Endpoint	Test Duration (hr)	Species	Value	Sourc
	EC50	96h	Algae or other aquatic plants	11.7mg/l	2
	EC50	72h	Algae or other aquatic plants	<1mg/l	1
	EC50(ECx)	48h	Crustacea	0.95mg/l	1
	LC50	96h	Fish	0.58mg/l	2
	EC50	48h	Crustacea	0.95mg/l	1
	EC50	96h	Algae or other aquatic plants	64mg/l	2
	EC50	72h	Algae or other aquatic plants	19mg/l	1

Chemwatch: 20-8924 Page 11 of 14
Version No: 8.1

#### AC Brag 200 Herbicide

Issue Date: 11/03/2025 Print Date: 11/03/2025

	NOEC(ECx)	72h	Algae or other aquatic plants	1mg/l	1
	EC50	48h	Crustacea	6.14mg/l	1
Legend:	4. US EPA, Eco	1. IUCLID Toxicity Data 2. Europe ECHA R tox database - Aquatic Toxicity Data 5. ECI n Data 7. METI (Japan) - Bioconcentration	ETOC Aquatic Hazard Assessment Data 6.	•	

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

**DO NOT** discharge into sewer or waterways.

# Persistence and degradability

Ingredient	Persistence: Water/Soil	Persistence: Air
bromoxynil octanoate	LOW (Half-life = 44 days)	LOW (Half-life = 2.65 days)

# **Bioaccumulative potential**

Ingredient	Bioaccumulation
bromoxynil octanoate	HIGH (LogKOW = 5.4)
aromatic 150	LOW (BCF = 159)

#### Mobility in soil

Ingredient	Mobility
bromoxynil octanoate	LOW (Log KOC = 4847)

# **SECTION 13 Disposal considerations**

#### Waste treatment methods

- ▶ Containers may still present a chemical hazard/ danger when empty.
- Return to supplier for reuse/ recycling if possible.

#### Otherwise:

- If container can not be cleaned sufficiently well to ensure that residuals do not remain or if the container cannot be used to store the same product, then puncture containers, to prevent re-use, and bury at an authorised landfill.
- ▶ Where possible retain label warnings and SDS and observe all notices pertaining to the product.

Legislation addressing waste disposal requirements may differ by country, state and/ or territory. Each user must refer to laws operating in their area. In some areas, certain wastes must be tracked.

A Hierarchy of Controls seems to be common - the user should investigate:

- Reduction
- Reuse
- Recycling
- Disposal (if all else fails)

This material may be recycled if unused, or if it has not been contaminated so as to make it unsuitable for its intended use. If it has been contaminated, it may be possible to reclaim the product by filtration, distillation or some other means. Shelf life considerations should also be applied in making decisions of this type. Note that properties of a material may change in use, and recycling or reuse may not always be appropriate.

- ▶ DO NOT allow wash water from cleaning or process equipment to enter drains.
- It may be necessary to collect all wash water for treatment before disposal.
- In all cases disposal to sewer may be subject to local laws and regulations and these should be considered first.
- Where in doubt contact the responsible authority.
- ▶ Recycle wherever possible or consult manufacturer for recycling options.
- ► Consult State Land Waste Authority for disposal.
- Bury or incinerate residue at an approved site.
- Recycle containers if possible, or dispose of in an authorised landfill.

# **SECTION 14 Transport information**

Product / Packaging

disposal

# **Labels Required**



# Marine Pollutant



# AC Brag 200 Herbicide

Issue Date: 11/03/2025 Print Date: 11/03/2025

•3Z **HAZCHEM** 

Land transport (ADG)					
14.1. UN number or ID number	3082	082			
14.2. UN proper shipping name	ENVIRONMENTALLY	NVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bromoxynil octanoate)			
14.3. Transport hazard class(es)	Class Subsidiary Hazard	9 Not Applicable			
14.4. Packing group	III	III			
14.5. Environmental hazard	Environmentally hazar	rdous			
14.6. Special precautions for user	Special provisions Limited quantity	274 331 335 375 AU01 5 L			

Environmentally Hazardous Substances meeting the descriptions of UN 3077 or UN 3082

are not subject to this Code when transported by road or rail in;

- (a) packagings;
- (c) any other receptacle not exceeding 500 kg(L).
- Australian Special Provisions (SP AU01) ADG Code 7th Ed.

# Air transport (ICAO-IATA / DGR)

14.1. UN number	3082			
14.2. UN proper shipping name	Environmentally hazardous substance, liquid, n.o.s. (contains bromoxynil octanoate)			
	ICAO/IATA Class 9			
14.3. Transport hazard class(es)	ICAO / IATA Subsidiary Hazard	Not Applicable		
Ciaccicoy	ERG Code	9L		
14.4. Packing group	III			
14.5. Environmental hazard	Environmentally hazardous			
	Special provisions		A97 A158 A197 A215	
	Cargo Only Packing Instructions	964		
	Cargo Only Maximum Qty / Pack	450 L		
14.6. Special precautions for user	Passenger and Cargo Packing In	964		
	Passenger and Cargo Maximum	450 L		
	Passenger and Cargo Limited Qu	Y964		
	Passenger and Cargo Limited Ma	30 kg G		

# Sea transport (IMDG-Code / GGVSee)

14.1. UN number	3082				
14.2. UN proper shipping name	ENVIRONMENTALLY	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains bromoxynil octanoate)			
14.3. Transport hazard class(es)	IMDG Class				
14.4. Packing group	III	IMDG Subsidiary Hazard Not Applicable			
14.5 Environmental hazard	Marine Pollutant	Marine Pollutant			
	EMS Number	EMS Number F-A , S-F			
14.6. Special precautions for user	Special provisions	Special provisions 274 335 969			
	Limited Quantities	Limited Quantities 5 L			

# 14.7. Maritime transport in bulk according to IMO instruments

# 14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code

Chemwatch: 20-8924 Page 13 of 14 Issue Date: 11/03/2025 Version No: 8.1 Print Date: 11/03/2025 AC Brag 200 Herbicide

Not Applicable

# 14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code

Product name	Group
bromoxynil octanoate	Not Available
aromatic 150	Not Available

#### 14.7.3. Transport in bulk in accordance with the IGC Code

Product name	Ship Type
bromoxynil octanoate	Not Available
aromatic 150	Not Available

# **SECTION 15 Regulatory information**

# Safety, health and environmental regulations / legislation specific for the substance or mixture

#### bromoxynil octanoate is found on the following regulatory lists

Australia Chemicals with non-industrial uses removed from the Australian Inventory of Chemical Substances (old Inventory)

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australia Standard for the Uniform Scheduling of Medicines and Poisons (SUSMP) - Schedule 6

Chemical Footprint Project - Chemicals of High Concern List

#### aromatic 150 is found on the following regulatory lists

Australia Hazardous Chemical Information System (HCIS) - Hazardous Chemicals

Australian Inventory of Industrial Chemicals (AIIC)

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Not Classified as Carcinogenic

# **Additional Regulatory Information**

Not Applicable

#### **National Inventory Status**

National Inventory	Status
Australia - AIIC / Australia Non-Industrial Use	Yes
Canada - DSL	No (bromoxynil octanoate)
Canada - NDSL	No (aromatic 150)
China - IECSC	Yes
Europe - EINEC / ELINCS / NLP	Yes
Japan - ENCS	No (bromoxynil octanoate)
Korea - KECI	No (bromoxynil octanoate)
New Zealand - NZIoC	Yes
Philippines - PICCS	No (bromoxynil octanoate)
USA - TSCA	All chemical substances in this product have been designated as TSCA Inventory 'Active'
Taiwan - TCSI	No (bromoxynil octanoate)
Mexico - INSQ	No (bromoxynil octanoate)
Vietnam - NCI	Yes
Russia - FBEPH	Yes
Legend:	Yes = All CAS declared ingredients are on the inventory No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration.

# **SECTION 16 Other information**

Revision Date	11/03/2025
	1,700,232
Initial Date	07/04/2009

AC Brag 200 Herbicide

Issue Date: 11/03/2025 Print Date: 11/03/2025

Version	Date of Update	Sections Updated
7.1	27/10/2023	UN Number update
8.1	11/03/2025	First Aid measures - Advice to Doctor, Hazards identification - Classification, Disposal considerations - Disposal, Handling and storage - Handling Procedure, Handling and storage - Storage incompatibility), Handling and storage - Storage (storage requirement)

#### Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources as well as independent review by the Chemwatch Classification committee using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

# **Definitions and abbreviations**

- ▶ PC TWA: Permissible Concentration-Time Weighted Average
- ▶ PC STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ▶ ACGIH: American Conference of Governmental Industrial Hygienists
- ▶ STEL: Short Term Exposure Limit
- ► TEEL: Temporary Emergency Exposure Limit。
- ▶ IDLH: Immediately Dangerous to Life or Health Concentrations
- ▶ ES: Exposure Standard
- ▶ OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- ▶ LOAEL: Lowest Observed Adverse Effect Level
- ▶ TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- ▶ BCF: BioConcentration Factors
- ▶ BEI: Biological Exposure Index
- ▶ DNEL: Derived No-Effect Level
- ▶ PNEC: Predicted no-effect concentration
- ▶ MARPOL: International Convention for the Prevention of Pollution from Ships
- ► IMSBC: International Maritime Solid Bulk Cargoes Code
- ▶ IGC: International Gas Carrier Code
- ▶ IBC: International Bulk Chemical Code
- AIIC: Australian Inventory of Industrial Chemicals
- DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ► NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ► TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

#### This document is copyright.

Apart from any fair dealing for the purposes of private study, research, review or criticism, as permitted under the Copyright Act, no part may be reproduced by any process without written permission from CHEMWATCH.

TEL (+61 3) 9572 4700.