










**Risk estimation matrix**

Severity of Harm	Likelihood of harm		
	High	Medium	Low
Severe	High	High	Medium
Moderate	High	Medium	Low
Minor	Medium	Low	Low

**Please keep a record of this risk assessment**

**\*Review of assessment**

This assessment should be reviewed every year and immediately if there is reason to believe that it is no longer valid (e.g. after an accident/incident), if there is a significant change in the work activity to which it relates or if the results of monitoring or health surveillance indicate it to be necessary.

Hazard									
	Health Hazard	Toxic	Corrosive	Harmful/Irritant	Flammable	Oxidising	Explosive	Compressed Gas	Danger for the Environment

**Workplace exposure limits (WELs)**

WELs are British occupational exposure limits and are set in order to help protect the health of workers. WELs are concentrations of hazardous substances in the air, averaged over a specified period of time, referred to as a time-weighted average (TWA). Two time periods are used:

- long-term (8 hours); and
- short-term (15 minutes)

Short-term exposure limits (STELs) are set to help prevent effects such as eye irritation, which may occur following exposure for a few minutes.

Product/Process:	BRONCO	Assessed by:	Craig Brannigan	MAPP number	20841	Page 1 of	3
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Description & Use – A foliar applied translocated herbicide for the control of emerged weeds in industrial and amenity situations, in forestry and on hard surfaces. Degraded by micro-organisms / microbes in the soil. A soluble concentrate containing 360 g/l glyphosate. RESTRAINTS: DO NOT apply by mister machines. DO NOT apply if crops or weeds are stressed due to excessively dry or moist conditions. DO NOT apply to diseased or frost affected crops or turf or if frosts are imminent. DO NOT apply when rain is expected within 3 hours. DO NOT apply to lucerne crops or clover-based pastures or turf in temperatures above 20°C or when temperatures above 20°C may follow for some days after application. DO NOT apply when windspeed is less than 3 or more than 20 km per hour at application site. DO NOT apply during surface temperature inversion conditions at application site. DO NOT apply with smaller than COARSE spray quality according to ASAE S572 definition for standard nozzles.

**BOOM SPRAYER USE ONLY low boom equipment set up to provide good coverage of weeds within the crop canopy.**

**Persons Exposed**

Operatives	<20	Daily/Hrs dependant on area size. See application records	Sprayer and potentially those in close proximity – SEE APPLICABLE RISK ASSESSMENT.
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Hazard Symbol	Unclassified	Risk Rating Before Assessment		
		High	Medium	Low
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<b>Risks to Health and Hazard Description</b>	<p>No additional hazards known beside those mentioned.</p> <p><b>Glyphosate: This substance is not considered to be persistent, bioaccumulative and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulative (vPvB).</b></p> <p><b>R Phrases</b></p> <p>None noted</p> <p><b>P Phrases</b></p> <p>None noted</p> <p>FOLLOW PRODUCT LABEL FOR DIRECTIONS FOR USE AND CONCENTRATIONS.</p>	<b>Required Control Measures</b>	<p><b>Pre-employment assessment would identify any potential vulnerable persons. Continually assess the procedure to highlight the use of less hazardous products.</b></p> <p><b>Emergency tel. no:</b> Emergency telephone no. 00800 1020 3333 (24 hr) (not available on non-contract mobile phones) For Medical Professionals: You can also contact the relevant NPIS. For Members of the Public: You can also contact NHS111 (for GB) or your local GP (for Northern Ireland). National Poisons Information Centre Dublin</p> <p><b>PPE required when handling the concentrate or conducting application –</b> Personal protective equipment In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.</p> <p>RPE = Respiratory protection is not required under anticipated circumstances of exposure. Respiratory protection should only be used to control residual risk of short duration activities, when all reasonably practicable steps have been taken to reduce exposure at source e.g. containment and/or local extract ventilation.</p> <p>Gloves = Always follow respirator manufacturer's instructions regarding wearing and maintenance. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Wash gloves when contaminated. Dispose of when contaminated inside, when perforated or when contamination outside cannot be removed. Material Nitrile Rubber - rate of permeability &gt; 480 min Glove thickness &gt; 0.4 mm Directive Protective gloves complying with EN 374.</p> <p>Eyes = Wear goggles (conforming to EN166, Field of Use = 5 or equivalent)</p> <p>Coveralls = Wear standard coveralls and Category 3 Type 6 suit. If there is a risk of significant exposure, consider a higher protective type suit. Wear two layers of clothing wherever possible. Polyester/cotton or cotton overalls should be worn under chemical protection suit and should be professionally laundered frequently. If chemical protection suit is splashed, sprayed or significantly contaminated, decontaminate as far as possible, then carefully remove and dispose of as advised by manufacturer.</p> <p><b>What improvements/safer alternative substances/processes can be made?</b></p> <p>Ensure sufficient supervision, ensure trained and competent personnel. Ensure other personnel / other persons are sufficiently separated from the mixing/working area.</p> <p><b>Health Surveillance Required – Not a legal requirement but with</b> the use of good occupational and hygiene practices any risk will be minimal.</p> <p><b>Safer alternatives currently available:</b> - No safer alternatives are currently available.</p>
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<b>Product/Process:</b> BRONCO		<b>Assessed by:</b> Craig Brannigan		<b>Page 2 of</b> 3		
<b>PPE</b>				<b>Risk Rating Following Control Measures</b>		
				<b>High</b>	<b>Medium</b>	<b>Low</b> √
<b>First Aid</b>	<b>Eyes</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control centre immediately.		<b>Skin</b>	Wash off immediately with plenty of water for at least 15 minutes. Take off contaminated clothing and shoes immediately. Call a physician or poison control centre immediately.	
	<b>Ingestion</b>	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.		<b>Inhalation</b>	Move to fresh air. Keep patient warm and at rest. Call a physician or poison control centre immediately.	
<b>Hazardous Ingredients</b>		<b>Substance</b>	<b>Exposure Limit WEL 8hr TWA</b>	<b>Exposure Limit STEL</b>		
		None identified				
<b>Handling</b>		Avoid contact with skin, eyes and clothing. Ensure adequate ventilation. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics. Remove Personal Protective Equipment (PPE) immediately after handling this product. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing. Keep working clothes separately. Garments that cannot be cleaned must be destroyed (burnt).				
<b>Storage</b>		Store in original container. Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in a place accessible by authorized persons only. Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode. Protect from freezing. Partial crystallization may occur on prolonged storage below the minimum storage temperature. Freezing will affect the physical condition but will not damage the material. Thaw and mix before using. Conditions to avoid: Extremes of temperature and direct sunlight. Incompatible materials: Galvanised steel, Unlined mild steel				
<b>Fire Precautions and Extinguisher Type</b>		Suitable media: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. (Unsuitable - High volume water jet) In the event of fire the following may be released: Carbon monoxide (CO), Carbon dioxide (CO2), Nitrogen oxides (NOx), Oxides of phosphorus				
<b>Accidental Release and Spillage Plan</b>		Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Collect and transfer the product into a properly labelled and tightly closed container. Keep in suitable, closed containers for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.				
<b>Disposal of Substance and Contaminated Containers</b>		In accordance with current regulations and, if necessary, after consultation with the site operator and/or with the responsible authority, the product may be taken to a waste disposal site or incineration plant. Triple rinse containers. Do not re-use empty containers. Not completely emptied packagings should be disposed of as hazardous waste.				
<b>Environmental Considerations</b>		LC50 (Oncorhynchus mykiss (rainbow trout)) > 100 mg/l Exposure time: 96 h Oncorhynchus mykiss (rainbow trout) flow-through test NOEC: >= 9.63 mg/l The value mentioned relates to the active ingredient glyphosate. EC50 (Daphnia magna (Water flea)) > 100 mg/l Exposure time: 48 h EC50 (Daphnia magna (Water flea)): 12.5 mg/l				
<b>SDS &amp; Other References</b>		Product Name: Bayer BRONCO. Revision number: 2 Dated: 12.12.2024 and product label.				