HALVETIC®

BGT
Better Glyphosate Technology



Ciech

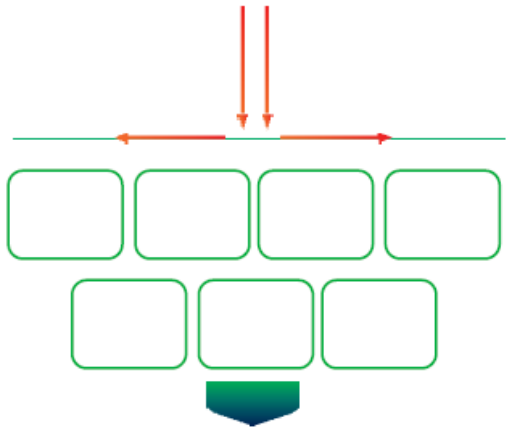
2024

HALVETIC

BGT
Better Glyphosate Technology

How does BGT® work? Improved absorption and penetration efficiency

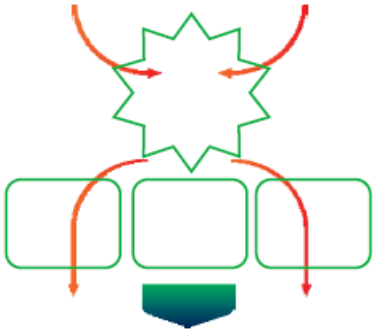
PURE ACTIVE INGREDIENT



LOW PENETRATION

SOLO 3% - 4%

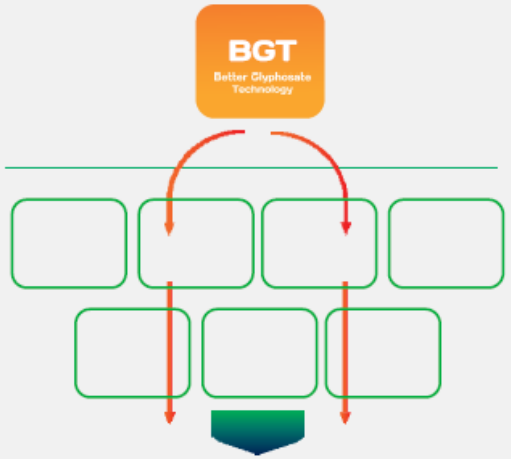
ACTIVE INGREDIENT + SURFACTANTS



LEAF TISSUE DAMAGE MAY LIMIT PENETRATION

REDUCES THE MOVEMENT OF THE ACTIVE SUBSTANCE

ACTIVE INGREDIENT WITH BGT



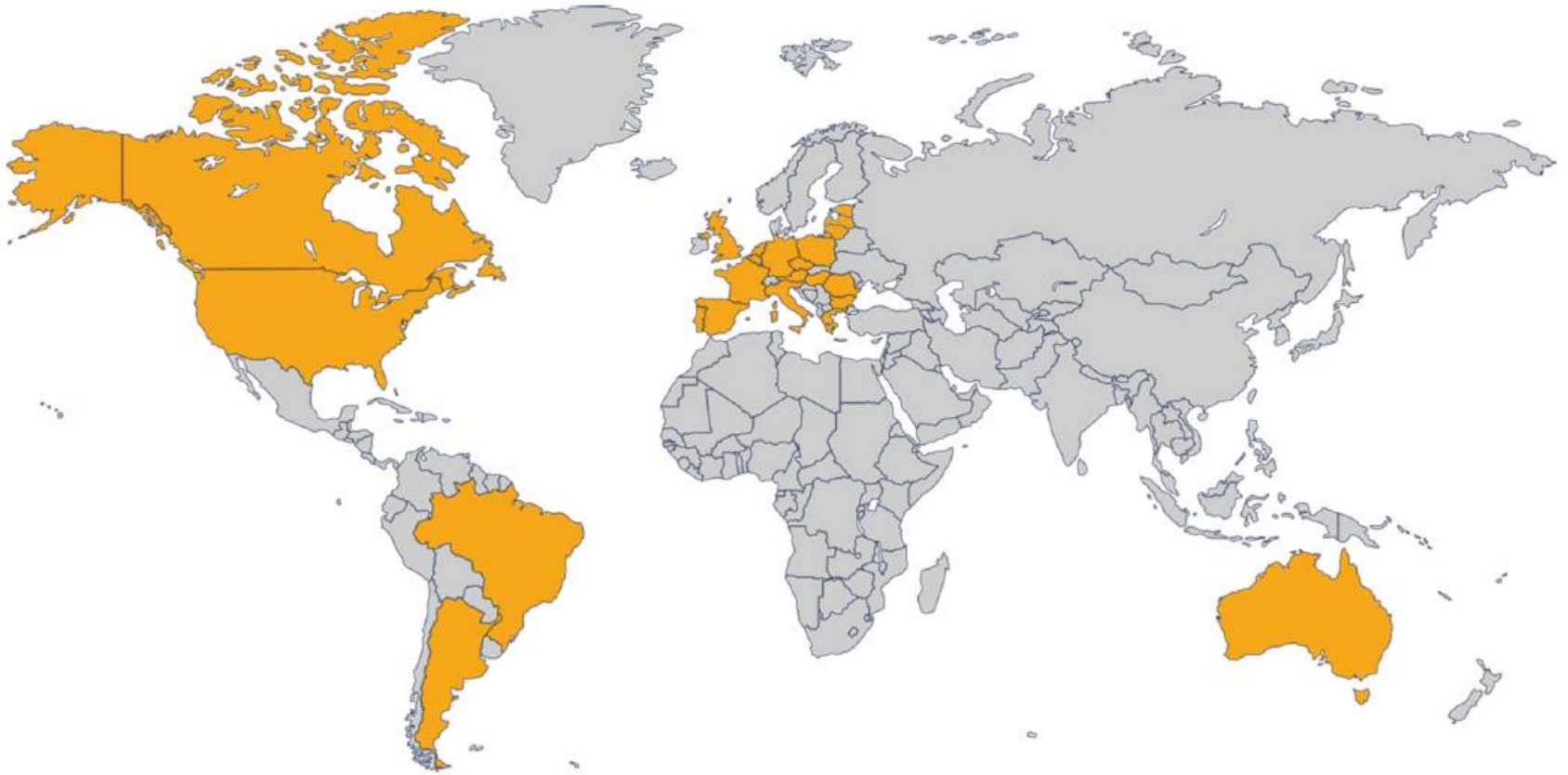
UNDISRUPTED ABSORPTION WITH 100% PENETRATION

IMPROVES TRANSLOCATION TOWARDS SITE OF ACTION



1. Effective - Half a thousand trials on 4 continents





Until now CIECH Sarzyna conducted more than

500

field trials to prove efficacy and safety of

HALVETIC®

HALVETIC

BGT
Better Glyphosate Technology

1. Effective – test in EU

176 registration efficacy trials in EU

107 registration efficacy trials in Central EU



29
maize



17
orchards



28
non crop



33
stubbles

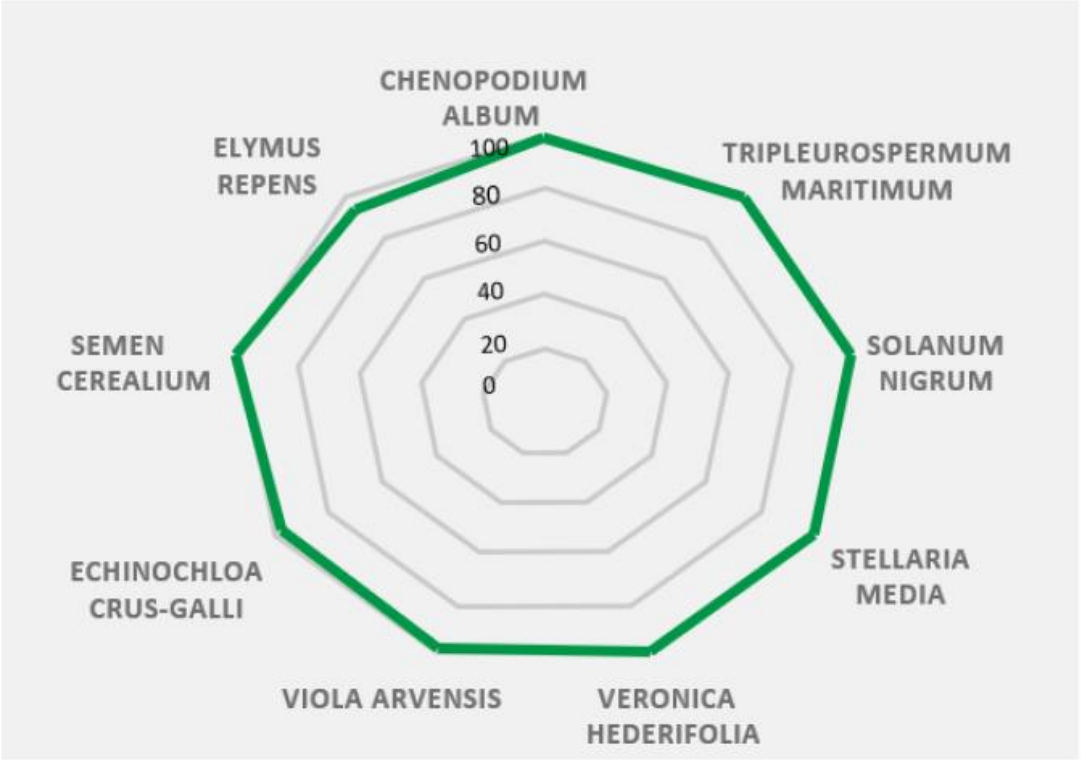
69 – annual and perennial grass and broadleaved weed species tested

HALVETIC

BGT
Better Glyphosate Technology

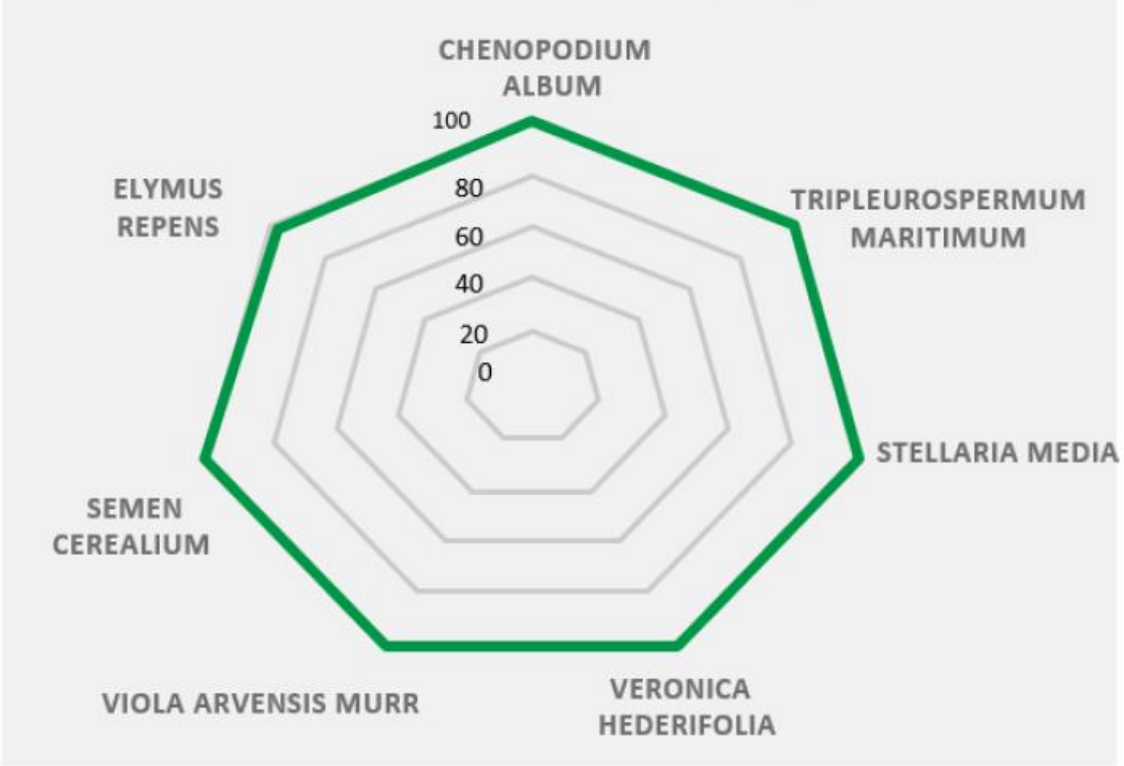
1. Effective - the efficacy of HALVETIC® - experimental results: stubble and corn

PERFORMANCE OF HALVETIC® 4,0 L/HA IN STUBBLE USE



Spring assement

PERFORMANCE OF HALVETIC® IN RATE 3,0 L/HA IN CORN



Assement at the end of vegetation

Registreringsförsök: Kvickrot

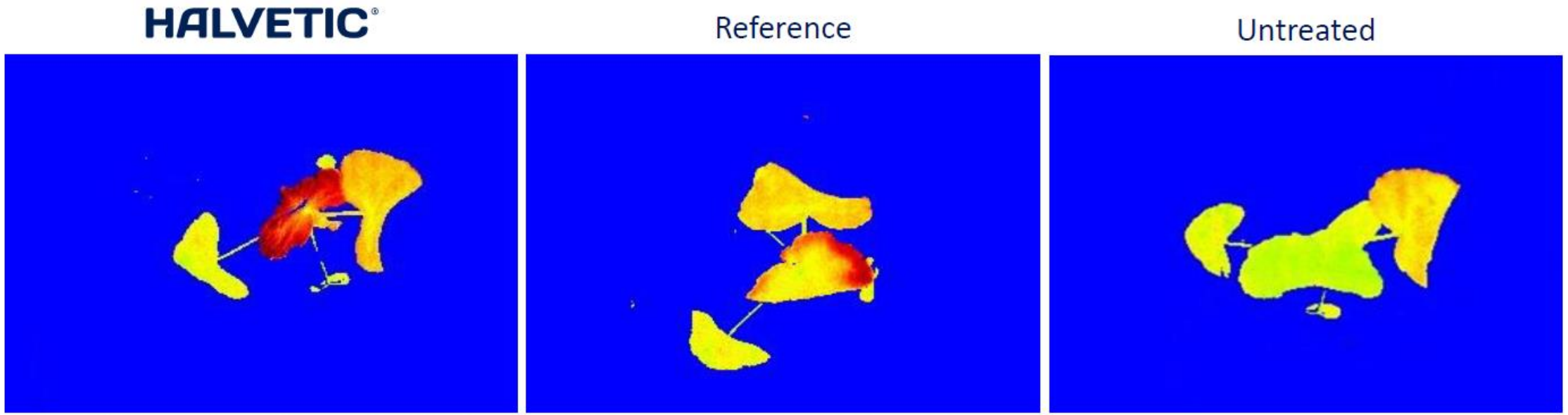
1. Effective – test in EU

Weed EPPO code (growth stage at appl'n (BBCH))		Utd (plants/m²)	Mean % efficacy at "end of growing season"					
			HALVETIC	REF	HALVETIC	REF	HALVETIC	REF
			2,5 L/ha	2,5 L/ha	3.0 L/ha	3.0 L/ha	4.0 L/ha	4.0 L/ha
			(450 g a.s./ha)	(900 g a.s./ha)	(540 g a.s./ha)	(1080 g a.s./ha)	(720 g a.s./ha)	(1440 g a.s./ha)
AGRRE	**Mean**	***34,3***	***81,1***	***95,9***	***97,4***	***98,5***	***98,9***	***99,4***
(12-32)	Min-Max	*7,0-76,3*	***78,8-82,5***	***90,0-100,0***	***93,8-100,0***	***95,8-100,0***	***95,5-100,0***	***97,3-100,0***

HALVETIC

BGT
Better Glyphosate Technology

1. Effective - improved absorption efficiency and translocation in the plant



Chlorophyll fluorescence of Velvetleaf (*Abutilon theophrasti*) 78h after application of HALVETIC and Reference product.

the red color indicates glyphosate activity

HALVETIC

BGT
Better Glyphosate Technology

1. Effective - better absorption = more effective product



HALVETIC® vs Standard product :

- Control of couch grass (*Elymus repens*) – comparing regrowth from rhizomes plants treated by HALVETIC® and industry standard products
- Dose: 4,0 L/ha, sampling: 21 days after treatment, Assessment: 14 days after sampling

The Poznań University of Life Sciences, Poland 2021

Ciech

HALVETIC

BGT
Better Glyphosate Technology

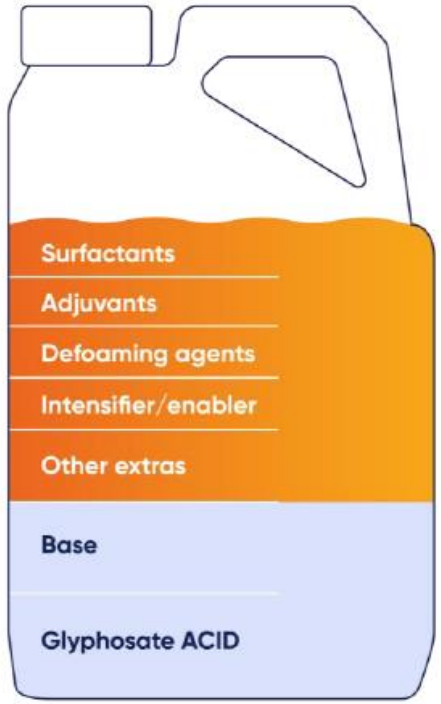
2. Easy to use - HALVETIC® - ready to use, no adjuvants needed!





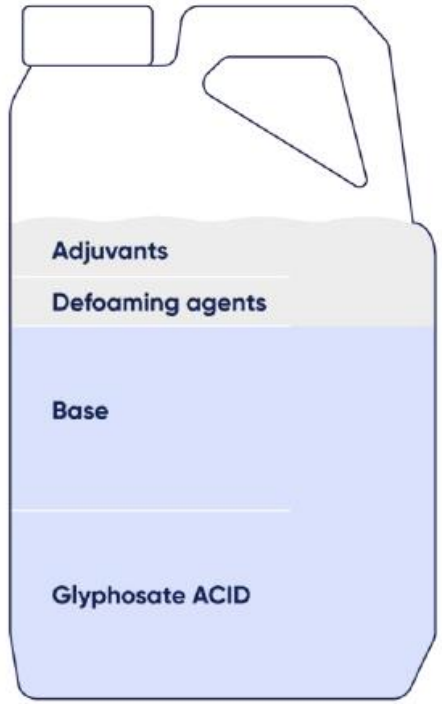
HALVETIC® (BGT)

180 g/l



Standard

360 g/l

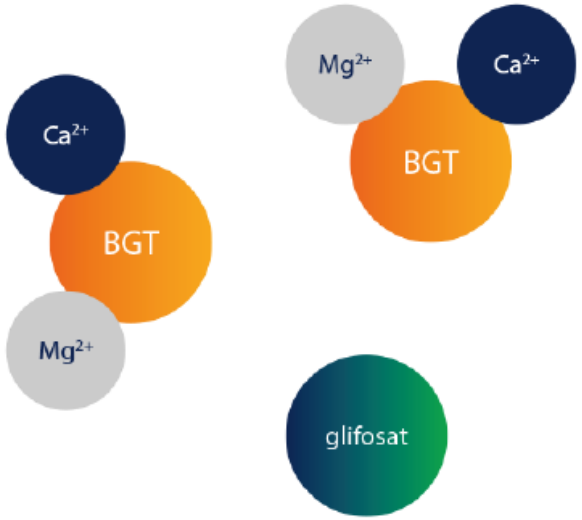


BGT Technology

Salt of glyphosate

3. Reliability - reliable performance independent of water hardness

HALVETIC® reliability in all conditions



The effect of glyphosate in HALVETIC® is independent of water hardness. The use of the product has been **repeatedly tested in hard water** conditions with a concentration of 500 ppm - studies have confirmed that water hardness did not affect the efficacy of the product.

The built-in adjuvant system **reacts with mineral salts** in hard water, eliminating their negative impact on the efficacy of glyphosate and supporting the penetration of active substance through biological barriers

Standard
360 g/l

