

CAUTION
KEEP OUT OF REACH OF CHILDREN
READ SAFETY DIRECTIONS BEFORE OPENING OR USING



VELPAR[®] L

HERBICIDE

ACTIVE CONSTITUENT: 250 g/L HEXAZINONE

GROUP C HERBICIDE

10 L

For the control of certain sedges, perennial grasses and broadleaf weeds around agricultural buildings. For the control of certain woody weeds in grazing pastures by spot application and by stem injection as per Directions for Use table.

DIRECTIONS FOR USE**NON-FORESTRY APPLICATIONS
SPOT APPLICATION TO INDIVIDUAL BUSH/TREE**

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Around agricultural buildings and in pasture situations	<i>Acacia spp.</i> such as Brigalow (<i>A. harpophylla</i>)	Qld, NSW only	2 mL/spot 1 spot for each metre in height	Seedlings/bushes/trees up to 5m tall. For suckers use the rate as if seedlings/bushes/trees 5 m tall ie. 5 x 2 mL spots. Blackwood (<i>A. melanoxylon</i>) and Prickly mimosa (<i>A. verticillata</i>) are not controlled at the recommended use rate
	Silver wattle (<i>A. dealbata</i>)	ALL STATES		
	Currawang/Hickory (White wood) (<i>A. doratoxylon</i>)	Qld, NSW, Vic, WA only		
	Prickly Acacia (<i>Acacia nilotica</i>)	Qld, NSW only	4 mL/spot 1 spot for each metre in height	Seedlings/bushes/trees up to 5m tall. Apply between October and March for best results.
	<i>Eucalyptus spp.</i> such as Poplar Box/Bimble Box (<i>E. populnea</i>)	Qld, NSW only	2 mL/spot 1 spot for each bush/tree 4 mL/spot 1 spot for each bush/tree 4 mL/spot 2 spots for each bush/tree	Bushes/trees up to 1 m tall** Bushes/trees 1 to 3 m tall** Bushes/trees 3 to 7 m tall suckers**
Creswick apple box (Scent bark) (<i>E. aromaphloia</i>) Grey box/Gum-topped box (<i>E. moluccana</i>) Longleaf box (<i>E. goniocalyx</i>) White box (<i>E. albens</i>)	NSW, Vic only			

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Around agricultural buildings and in pasture situations	Coolibah (<i>E. microtheca</i>)	Qld, NSW, SA, WA only	2 mL/spot 1 spot for each bush/tree 4 mL/spot 1 spot for each bush/tree 4 mL/spot 2 spots for each bush/tree	Bushes/trees up to 1 m tall** Bushes/trees 1 to 3 m tall** Bushes/trees 3 to 7 m tall suckers**
	Dawson gum (<i>E. cabbageana</i>)	Qld only		
	Mountain grey gum/Monkey gum (<i>E. cypellocarpa</i>)	NSW, Vic, SA only		
	Blakely's red gum (<i>E. blakelyi</i>)	NSW, Vic only		
	Red ironbark/Mugga (<i>E. sideroxylon</i>)	Qld, NSW, Vic only		
	Congo mallee (<i>E. dumosa</i>) Yorrell (White mallee) (<i>E. glacialis</i>) Pointed mallee (Red mallee) (<i>E. socialis</i>)	NSW, Vic, SA only		
	Broadleaf peppermint (<i>E. dives</i>) Narrowleaf peppermint (<i>E. radiata</i>)	NSW, Vic only		
	Brown stringybark (<i>E. baxteri</i>)	Vic, SA only		

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Around agricultural buildings and in pasture situations	Messmate stringybark (<i>E. obliqua</i>) Red stringybark (<i>E. macrorhyncha</i>)	NSW, Vic, SA only	2 mL/spot 1 spot for each bush/tree 4 mL/spot 1 spot for each bush/tree 4 mL/spot 2 spots for each bush/tree	Bushes/trees up to 1 m tall** Bushes/trees 1 to 3 m tall** Bushes/trees 3 to 7 m tall suckers**
	White stringybark (<i>E. globoidea</i>)	NSW, Vic only		
	Bitterbark/Quinine tree (<i>Alstonia constricta</i>)	Qld, NSW only	2 mL/spot 1 spot for each metre in height	Bushes/trees up to 3 m tall**
	White cypress pine (<i>Callitris columellaris</i>)	ALL STATES		
	Monterey cypress (<i>Cupressus macrocarpa</i>)	Vic only		
	Dogwood/Common cassinia/Dollybush (<i>Cassinia aculeata</i>)	NSW, Vic, SA, TAS only		
	False sandalwood/Budda (<i>Eremophila mitchellii</i>)	Qld, NSW only		
	Whitewood (<i>Atalaya hemiglauca</i>)	Qld, NSW, SA, WA only		
	Broadleaf teatree (<i>Melaleuca viridiflora</i>)	NSW, Qld only		
	African boxthorn (<i>Lycium ferocissimum</i>)	ALL STATES	4 mL/spot 1 spot for each metre in height	

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Around agricultural buildings and in pasture situations	Yellow-wood (<i>Terminalia oblongata</i>)	Qld only	4 mL/spot 1 spot for each metre in height	Bushes/trees up to 3 m tall**
	Tree-of-heaven (<i>Ailanthus altissima</i>)	NSW, Vic, WA only		
	Sweet briar (<i>Rosa rubiginosa</i>)	NSW, Vic, TAS only	4 mL/spot 1 spot for each metre in height	Bushes up to 3 m tall** Deep rooted bushes may require re-treatment if at two years they are still partially green. Place spot near base of plant.**
	Parkinsonia (<i>Parkinsonia aculeata</i>)	Qld, NSW, WA only	4 mL/spot 1 spot for each bush (tree)	Bushes/trees up to 5 m tall**
	Rubber vine (<i>Cryptostegia grandiflora</i>)	Qld only	2 mL/spot 3 spots for each bush (tree)	Bushes/trees up to 2 m tall Deep rooted bushes may require re-treatment if at two years they are still partially green. Place spots near base of plant**
	Blackberry (<i>Rubus</i> spp.)	ALL STATES	4 mL/spot for each bush	Single crowned bushes up to 1 m tall Apply near base of crown** Tas only: DO NOT apply to bushes which bear mature or near mature fruit.
	Limebush (<i>Eremocitrus glauca</i>)	Qld only	2 mL/spot 2 spots for each bush	Bushes up to 3 m high.

NON-FORESTRY APPLICATIONS STEM INJECTION

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Around agricultural buildings and in pasture situations	<i>Eucalyptus</i> spp. such as Red bloodwood (<i>E. dichromophloia</i>)	Qld only	1 mL/cut or 2 mL/cut	15 cm centre to centre cut. 30 cm centre to centre cut. Apply cuts to waist height. Regardless of bush/tree size apply a minimum of 2 mL for each bush/tree. For Grey box/Gum Topped Box use the narrow spacing i.e. 15 cm.
	Creswick apple box (Scent bark) (<i>E. aromaphloia</i>); Grey box/Gum-topped box (<i>E. moluccana</i>); White Box (<i>E. albens</i>)	NSW, Vic only		
	Coolibah (<i>E. microtheca</i>)	Qld, NSW, WA, SA only	1 mL/cut or 2 mL/cut	15 cm centre to centre cut. 30 cm centre to centre cut. Apply cuts to waist height. Regardless of bush/tree size apply a minimum of 2 mL for each bush/tree.
	Blakely's red gum (<i>E. blakelyi</i>)	NSW, Vic only		
	Red Ironbark/Mugga (<i>E. sideroxylon</i>)	Qld, NSW, Vic only		
	Red stringybark (<i>E. macrorhyncha</i>)	NSW, Vic, SA only		
	Morton bay ash (<i>E. tessellaris</i>)	NSW, Qld only		

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Around agricultural buildings and in pasture situations	Brown box (<i>E. microcarpa</i>) Silverleaf ironbark (<i>E. melanoploia</i>); Tumbledown gum (<i>E. dealbata</i>) Poplar box/Bimble box (<i>E. populnea</i>)	NSW, Qld only	0.5 mL/cut or 1.0 mL/cut	15 cm centre to centre cut. 30 cm centre to centre cut. Regardless of bush/tree size apply a minimum of 1 mL for each bush/tree.

NON-FORESTRY APPLICATIONS

SPOT APPLICATION ON GRID PATTERN

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Around agricultural buildings and in pasture situations	Acacia spp. such as Brigalow (<i>A. harpophylla</i>)	Qld, NSW only	1 mL/spot 4 mL/spot	Seedlings or single stemmed trees up to 1 m tall** Bushes/trees 1 to 4 m tall or suckers** Blackwood (<i>A. melanoxylon</i>) and Prickly mimosa (<i>A. verticillata</i>) are not controlled at the recommended use rates.
	Silver wattle (<i>A. dealbata</i>)	All States		
	Currawang/Hickory (White wood) (<i>A. doratoxylon</i>)	Qld, NSW, Vic, WA only		
	Eucalyptus spp. such as:- Poplar box/Bimble box (<i>E. populnea</i>)	Qld, NSW only	1 mL/spot 4 mL/spot	Bushes/trees up to 1 m tall** Bushes/trees 1 to 7 m tall or suckers.**
	Creswick apple box (Scent bark) (<i>E. aromaphloia</i>) Grey box/Gum-topped box (<i>E. moluccana</i>) Longleaf box (<i>E. goniocalyx</i>), White box (<i>E. albens</i>)	NSW, Vic only		
	Coolibah (<i>E. microtheca</i>)	Qld, NSW, SA, WA only		
	Dawson gum (<i>E. cambageana</i>)	Qld only		
	Mountain grey gum/Monkey gum (<i>E. cypellocarpa</i>)	NSW, Vic, SA only		

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Around agricultural buildings and in pasture situations	Blakely's red gum (<i>E. blakelyi</i>)	NSW, Vic only	1 mL/spot 4 mL/spot	Bushes/trees up to 1 m tall** Bushes/trees 1 to 7 m tall or suckers.**
	Red Ironbark/Mugga (<i>E. sideroxylon</i>)	Qld, NSW, Vic only		
	Congoo mallee (<i>E. dumosa</i>) Yorrell (White mallee) (<i>E. glacilis</i>) Pointed mallee (Red mallee) (<i>E. socialis</i>)	NSW, Vic, SA only		
	Broadleaf peppermint (<i>E. dives</i>) Narrowleaf peppermint (<i>E. radiata</i>)	NSW, Vic only		
	Brown stringybark (<i>E. baxteri</i>)	Vic, SA only		
	Messmate stringybark (<i>E. obliqua</i>) Red stringybark (<i>E. macrorhyncha</i>)	NSW, Vic, SA only		
	White stringybark (<i>E. globoidea</i>)	NSW, Vic only		
	Bitterbark/Quinine tree (<i>Alstonia constricta</i>)	Qld, NSW only		
	White cypress pine (<i>Callitris columellaris</i>)	ALL STATES		
	Monterey cypress (<i>Cupressus macrocarpa</i>)	Vic only		
	Dogwood/Common cassinia/ Dollybush (<i>Cassinia aculeate</i>)	NSW, Vic, SA, TAS only		
	False sandalwood/Budda (<i>Eremophila mitchellii</i>)	Qld, NSW only		

SITUATION/CROP	WEEDS CONTROLLED	STATE	RATE	CRITICAL COMMENTS
Around agricultural buildings and in pasture situations	Whitewood (<i>Atalaya hemiglauca</i>)	Qld, NSW, SA, WA only	1 mL/spot 4 mL/spot	Bushes/trees up to 1 m tall** Bushes/trees 1 to 3 m tall**
	African boxthorn (<i>Lycium ferocissimum</i>)	ALL STATES		
	Yellow-wood (<i>Terminalia oblongata</i>)	Qld only		
	Rubber vine (<i>Cryptostegia grandiflora</i>)	Qld only	1 mL/spot 4 mL/spot	Bushes up to 1 m tall** Bushes 1 to 2 m tall Deep rooted bushes may require re-treatment if at two years they are still partially green.**
	Tree of heaven (<i>Tailanthus altissima</i>)	NSW, Vic, WA only	2 mL/spot	Bushes/trees up to 3 m tall. Apply spots on a 1 x 1 m grid pattern.**
	Parkinsonia (<i>Parkinsonia aculeata</i>)	Qld, NSW, WA only	1 mL/spot 4 mL/spot	Bushes/trees up to 1 m tall** Bushes/trees 1 to 5m tall**
	Broadleaf teatree (<i>Melaleuca viridiflora</i>)	Qld only	2 mL/spot	Bushes up to 1 to 3 m tall** Apply spots on a 2 x 2 m grid pattern

** See General Instructions page for on-surface nozzle or spear attachment recommendations.

NON-FORESTRY APPLICATIONS
GROUND APPLICATION

SITUATION/ CROP	WEEDS CONTROLLED	STATE	RATE PER HECTARE	CRITICAL COMMENTS
Around agricultural buildings	ANNUAL WEEDS Asthma plant, Barnyard grass, Blackberry nightshade Common sida, Common sow- thistle, Fleabanes, Great brome, Green amaranth, Love grass, Medics, Paterson's curse (Salvation Jane), Soft brome, Summer grass, Wild oats	All States	13 to 18 L	Foliar Spray Applications Use the higher rates on heavy soils and soils high in organic matter or carbon; on light soils where rainfall is heavy or on dense established stands of hard to kill species such as paspalum, couch grass (<i>Cynodon dactylon</i>), nut grass and kikuyu.
	PERENNIAL WEEDS Artichoke thistle, Chicory, Couch grass (<i>Cynodon dactylon</i>), Creeping buttercup, Docks, Flatweeds, Kikuyu, Nutgrass, Paspalum, Rhodes grass, Ribwort (plantain)	Qld, NSW, WA only	18 to 54 L	
		Vic, SA, TAS only	22 to 43 L	
	<i>Parthenium hysterosphorus</i>	Qld, NSW only	3.5 L (Large areas) 7 mL/10 L/20 m ² (Small areas)	

SITUATION/ CROP	WEEDS CONTROLLED	STATE	RATE PER HECTARE	CRITICAL COMMENTS
Around agricultural buildings	Spiny rush (<i>Juncus acutus</i>)	Vic only	360 to 540 mL/100 L	Foliar Spray Applications Gives complete eradication of mature plants only. Seedling plants should be controlled for up to 6 months.

NOT TO BE USED FOR ANY PURPOSE, OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION

NOTICE (NSW ONLY)

WITH THE EXCEPTION OF REGROWTH LESS THAN 5 YEARS OLD AND UNDER THREE METRES TALL, THE CLEARING OF MORE THAN FIVE HECTARES OF TREES BY AERIAL, GROUND OR SPOTGUN APPLICATION IN NSW IS PROHIBITED, UNLESS SPECIFICALLY AUTHORISED BY PERMIT. THIS RESTRICTION DOES NOT APPLY TO WOODY WEEDS AND STEM INJECTION OF TREES.

GENERAL INSTRUCTIONS

This product is an effective foliar contact and soil active residual herbicide.

SPOT APPLICATIONS***a) To the Soil***

For trees greater than 5 m tall, consider the stem injection technique as it requires less product.

For best results on sucker regrowth use the rate recommended for the tallest bushes (trees) listed in the Directions for Use tables, as suckers grow from the roots of previous trees with large food reserves.

The product can be applied by a suitable spot applicator gun at any time of the year; but results may be slow to appear if application is made to dry soil.

For optimum results the following conditions are required:

- i. Moist soil at application, or sufficient rainfall after treatment to promote root absorption by the target bush or trees.
- ii. Active plant growth.

Avoid application onto ash in recently burnt areas as this may reduce the treatment's effectiveness.

Either the on-surface nozzle or spear attachment of the spot applicator gun may be used. When using the on-surface nozzle apply the product onto bare soil.

In areas where there is pasture growth or leaf litter covering the soil surface, best results are obtained using a spot applicator gun with its spear attachment.

Use the spear attachment of the spot applicator when treating brush or timber on sloping ground. Apply on the uphill side of the slope to a depth of 2 to 3 cm.

Small patches of pasture with its roots extending under the applied spot will also be controlled. Pasture will re-establish itself in affected areas, normally within 12 to 24 months of application.

Individual Bush/Tree

All spots to be placed between the base and the drip line unless otherwise specified. Where only two spots are applied per plant, place spots on either side of the plant. Where applicable, apply multiple spots each evenly spaced around the plant.

Grid Pattern Application

Unless otherwise indicated;

Bushes/trees up to 1 m tall

- i. when the target plant density is less than 10,000/ha (i.e. plants more than 1 m apart), treat on an individual stem basis.

- ii. when target plant density is 10,000/ha and greater (i.e. plants 1 m or less apart), treat using the 1x1 m grid pattern technique.

Bushes (trees) 1 to 7 m tall or suckers

- i. when target plant density is less than 2,500/ha (i.e. plants more than 2 m apart), treat on an individual stem basis.
- ii. when target plant density is 2,500/ha and greater (i.e. plants 2 m or less apart), treat using the 2 x 2 m grid pattern technique.

b) Stem Injection Application

For multi-stemmed trees, treat each stem as an individual tree.

Bushes (trees) up to 5 m tall: 1 cut/bush (tree) at waist height.

Trees 5 to 18 m tall: 30 cm centre to centre cut spacing around the circumference at waist height.

The Stem Injection technique requires less product than spot applications to the soil for Eucalypts greater than 5 m tall.

The product can be stem injected at any time of the year, but for best results treatment should be at a time of good sap flow. Avoid periods of drought stress.

It is recommended that the injection cuts be made at a comfortable height - i.e. waist height. Use a narrow bladed axe (5 to 7 cm wide blade) to make the cuts.

A suitable Tree Injector should be used to place the product into the cut.

It is important that the axe cuts be made to the correct depth - this is down into the sap stream. Ensure the cuts are deep enough to properly penetrate the bark - the thickness of the bark varies from one species to another.

Ensure that the product is injected into the cut within 5 seconds of the cut being made. This ensures its proper absorption into the sap stream. Failure to do this may result in unsatisfactory control.

FOLIAR SPRAY APPLICATIONS

Use sufficient water for thorough uniform coverage. For best foliar and residual control, apply as a post-emergent spray during the period of active plant growth and when the air temperatures are 25°C and above. Applications when vegetation is dormant, semi-dormant, under moisture stress or during the winter months may not be as effective.

In temperate winter rainfall areas where temperatures are generally below 25°C during the period of active plant growth, the foliar effect may be slow to appear. In these areas herbicide activity is more dependent on root absorption.

For residual control, sufficient rainfall is required after treatment to promote root absorption by the weeds.

Results obtained may vary with the amount of chemical applied, rainfall, air temperature, soil type and other conditions.

All use rates of the product are expressed as overall rates. For band treatment use proportionately less, i.e. use one-third the overall rate when treating one-third of the area.

EQUIPMENT AND APPLICATION

a) Spot application and Stem Injection

- i. Applications to the soil - the product is to be applied using a suitable spot applicator gun.
- ii. Stem Injection - the product is to be applied using a suitable tree injector.

b) Foliar Spray Applications

Velpar L is a water miscible liquid formulation.

The product is mixed with water and applied at recommended rates with ground equipment.

Partially fill the spray tank with water and add the correct amount of the product for the area to be sprayed with the agitation system engaged. Top up to correct volume with water, and for best results keep the spray solution agitated whilst spraying. To prevent nozzle blockage, strainer and nozzle screens should be 50 mesh or coarser.

Ground Application: Apply in 100 – 400 L/ha with a properly calibrated boom or 2,000 – 4,000 L/ha with hand spray equipment.

USE OF SURFACTANT/WETTING AGENT

Use a surfactant/wetting agent for foliar spray applications only, by ground equipment.

A non-ionic surfactant/wetting agent may be added at the rate of 250 - 500 mL/100 L of spray (for a surfactant containing 100% active constituent) for improved wetting.

RESISTANCE WARNING

Velpar L Herbicide is a member of the triazinone group of herbicides. Velpar L is an inhibitor of photosynthesis at photosystem II (PS II inhibitor). For weed resistance management, Velpar L is a Group C herbicide. Some naturally occurring weed biotypes resistant to Velpar L and other Group C herbicides may exist through normal genetic variability in any weed population. The resistant individuals can eventually dominate the weed population if these herbicides are used repeatedly. These resistant weeds will not be controlled by Velpar L or other Group C herbicides. Since the occurrence of resistant weeds is difficult to detect prior to use, Bayer CropScience Pty Ltd accepts no liability for any losses that may result from the failure of Jaguar to control resistant weeds.

PROTECTION OF LIVESTOCK

- a) Spot and stem injection applications: Stock do not need to be moved away from spot or injection treated areas.
- b) Foliar Spray Applications: Keep stock away from sprayed areas.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT

DO NOT contaminate ponds, waterways and drains with the product or used containers.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS

- a) All Application Methods

THE PRODUCT MAY KILL MANY TREES AND OTHER DESIRABLE PLANTS IF NOT CORRECTLY APPLIED. See also specific items listed for each use method. DO NOT apply on or near desirable trees or other plants

(except as recommended for crop use), or on areas where their roots may extend. As guidance this is two times their height, or more depending on the species and other conditions.

DO NOT apply in areas where a surface flow of water could wash the chemical into areas where the roots of desirable trees of plants may extend.

DO NOT drain or flush spray equipment, spot applicator or stem injector near desirable trees or in areas where their roots may extend.

b) Foliar Spray Applications

DO NOT apply under windy conditions and in areas where spray drift could damage valuable plants.

DO NOT use on lawns, walkways, driveways or tennis courts.

STORAGE AND DISPOSAL

Store in the closed, original container in a well ventilated area, as cool as possible. DO NOT store for prolonged periods in direct sunlight. DO NOT use or store at temperatures of 0 degrees C, or below, as the product will freeze. Flammable, keep away from heat, sparks and naked flame. Keep from contact with fertilisers, insecticides, fungicides and seeds. DO NOT re-use container. Triple or preferably pressure rinse containers disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on-site. If recycling, return containers to recycler or point of sale. If not recycling break, crush, or puncture and bury empty containers in a local authority landfill. If not available bury the containers below 500mm in a disposal pit specifically marked and set up for this purpose clear of waterways, vegetation and roots. Empty containers and product should not be burnt.

SAFETY DIRECTIONS

Will irritate the eyes and skin. Avoid contact with eyes and skin. DO NOT inhale spray mist. When opening the container, preparing and using the prepared spray wear elbow length PVC gloves and face shield or goggles. If product on skin immediately wash area with soap and water. 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, face shield or goggles and contaminated clothing.

FIRST AID

If poisoning occurs, contact a Doctor or Poisons Information Centre. Phone Australia 13 11 26. If in eyes, hold eyes open, flood with water for at least 15 minutes and see a doctor.

SAFETY DATA SHEET

Additional information is listed in the Safety Data Sheet which may be found at www.environmentalscience.bayer.com.au.

EXCLUSION OF LIABILITY

This product must be used strictly as directed, and in accordance with all instructions appearing on the label and in other reference material. So far as it is lawfully able to do so, Bayer CropScience Pty Ltd accepts no liability or responsibility for loss or damage from failure to follow such directions and instructions.

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Bayer CropScience Pty Ltd
A.B.N. 87 000 226 022
391-393 Tooronga Rd, Hawthorn East, Vic, 3123
Phone: (03) 9248 6888
Technical Enquiries: 1800 804 479
Website: www. www.environmentalscience.bayer.com.au

For 24 hour specialist advice in an emergency only phone 1800 033 111

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