

### SAFETY PRECAUTIONS:

#### Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

- Operators must wear suitable protective clothing (coveralls), suitable protective gloves, rubber boots and face protection (faceshield) when handling the concentrate.
- Operators must wear suitable protective clothing (coveralls), suitable protective gloves and rubber boots when applying by hand-held equipment.
- Operators must wear suitable protective gloves when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

DO NOT APPLY by hand-held rotary atomiser equipment.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

#### Consumer protection:

NOT TO BE USED ON FOOD CROPS.

#### Environmental protection:

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

LERAP  
B

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY

from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

DO NOT CONTAMINATE WATER with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

#### Storage and disposal:

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

This label is compliant with the CPA Voluntary Initiative Guidance.



FOR SPOT TREATMENT BY KNAPSACK USE  
60 ml GRAZON PRO IN 10 LITRES OF WATER



Dow AgroSciences



Grazon<sup>®</sup> PRO

HERBICIDE

Product Registration Number: MAPP 15785

An emulsifiable concentrate containing  
240 g/litre triclopyr (present as 334 g/litre of triclopyr butyl) and  
60 g/litre clopyralid.

A foliar acting herbicide for the control of NETTLES, DOCKS, THISTLES,  
BRAMBLES, BROOM and GORSE in ESTABLISHED GRASSLAND.

The (COSHH) Control of Substances Hazardous to Health Regulations may  
apply to the use of this product at work.

READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.

PROTECT FROM FROST.

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Tips for using Grazon Pro



HARMFUL



DANGEROUS FOR  
THE ENVIRONMENT

**HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED. IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN. MAY CAUSE SENSITISATION BY SKIN CONTACT. VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS. TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT.**

Do not breathe vapour.

Avoid contact with skin and eyes.

Wear suitable protective clothing and gloves.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

This material and its container must be disposed of in a safe way. Use appropriate containment to avoid environmental contamination.

**To avoid risks to man and the environment, comply with the instructions for use.**

#### IMPORTANT INFORMATION.

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

**Crops/Situations:** Grassland  
**Maximum Individual Dose:** 1.2 litres product per hectare  
(see Other Specific Restrictions)

**Maximum Number of Treatments:** One per year

#### Other Specific Restrictions:

DO NOT APPLY through hand-held rotary atomiser equipment.

The maximum concentration must not exceed 60 ml product per 10 litres of water (6 ml product per litre of water).

KEEP LIVESTOCK out of treated areas for at least 7 days and until foliage of any poisonous weeds such as ragwort has died and become unpalatable.

Applications must not be made outside the period of 1st March to 31st October.

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**

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# DIRECTIONS FOR USE

**IMPORTANT:** This information is approved as part of the Product Label. All instructions within this section must be read carefully in order to obtain safe and successful use of this product.

## WARNINGS

**Read all warnings before applying GRAZON PRO.**

Do not roll or harrow grass for 10 days before or 7 days after application.

Do not spray in drought, very hot or very cold weather.

GRAZON PRO is safe to grass. Very occasionally some yellowing of the sward may occur; this is transient and quickly outgrown.

Clover will be killed or severely checked by application of GRAZON PRO.

DO NOT sow kale, swedes, turnips or grass mixtures containing clover by direct drilling or minimum cultivation techniques within 6 weeks of applying GRAZON PRO.

GRAZON PRO residues in plant tissues (including manure and digestate) which have not completely decayed may affect succeeding susceptible crops e.g. peas, beans and other legumes, carrots and umbelliferae, potatoes and tomatoes, lettuce and other compositae. Do not plant susceptible autumn-sown crops (e.g. winter beans) in the same year as treatment with GRAZON PRO. Where susceptible crops are to be planted in the spring do not apply GRAZON PRO later than the end of July of the previous year. Following good agricultural practice, ensure that plant remains have completely decayed before planting susceptible crops.

Do not use any plant material treated with GRAZON PRO for composting or mulching.

Do not use manure from animals fed on crops treated with GRAZON PRO for composting.

In hot conditions, vapour drift may occur, making it particularly important to assess the risk to neighbouring vegetation.

Take extreme care to avoid drift onto crops and non-target plants outside the target area.

Do not apply directly to, or allow spray drift to come into contact with agricultural or horticultural crops, amenity plantings or gardens, ponds, lakes or water courses.

All conifers, especially pine and larch, are very sensitive to spray drift.

## Grazing Interval

Exclude livestock during treatment and do not allow livestock to graze treated grassland for at least 7 days following treatment, and until foliage of any poisonous weeds which may have been affected by application has died and become unpalatable.

## WEEDS CONTROLLED, RATE OF USE AND APPLICATION TIMING

The following weeds will be controlled by an application of GRAZON PRO at a rate of **60 mL of product in 10 litres of water (6 mL product in 1 litre of water)**.

The weeds should be thoroughly wetted with the spray solution but spraying until "run-off" will decrease activity. The use of flood jets is recommended to prevent drift. Care should be taken to avoid local overdosing.

If the grass has been cut for hay or silage or grazed leave for 2-3 weeks to allow sufficient re-growth to occur before spraying. Grass and weeds must be actively growing to ensure good weed control and minimal check to the grass.

To allow maximum translocation of GRAZON PRO to the roots do not cut grass for 28 days after application.

Weeds	Optimum timing of application
Common nettle	Spray when actively growing but preferably before flowering (normally up to mid-June).
Curled dock Broad-leaved dock	Treat in the spring when the docks are in the rosette stage up to 25 cm high. On large well-established docks, or where there is a high reservoir of seed in the soil, a second application the following year may be required.
Creeping thistle	Spray when actively growing but before flowering spikes are 15 cm high. Application of GRAZON PRO at flowering or during seeding is likely to produce reduced levels of control.
Bramble, broom and gorse	Spray in June-August when actively growing but before plants begin to senesce in the autumn. It is essential that, particularly with large bushes, all the foliage is thoroughly wetted or incomplete kill may result.

## APPLICATION EQUIPMENT

Apply GRAZON PRO using a hand-held sprayer. Ensure the equipment is in good working order and has been calibrated according to the manufacturers' recommendations.

Wash out spray equipment thoroughly with water and detergent immediately after use. Traces of GRAZON PRO could cause harm to susceptible crops sprayed later.

DO NOT APPLY through hand-held rotary atomiser equipment.

## Dow AgroSciences Conditions of Supply

All goods supplied by us are of high grade and we believe them to be suitable but, as we cannot exercise control over their storage, handling, mixing or use, or the weather conditions before, during or after application which may affect the performance of the goods, all conditions and warranties, statutory or otherwise, as to the quality or fitness for any purpose of our goods are excluded. No responsibility will be accepted by us or re-sellers for any failure in performance, damage or injury whatsoever arising from their storage, handling, application or use. These conditions cannot be varied by our staff or agents whether or not they supervise or assist in the use of such goods.

## COMPANY ADVISORY INFORMATION

This section is not part of the approved product label. Additional advice on product use is at the discretion of the applicant.

Dow AgroSciences would like to draw attention of the user to the following guidance:

**Keep livestock (including poultry) out of treated areas for at least 7 days and until foliage of any poisonous weeds such as ragwort has died and become unpalatable. Ragwort WILL NOT be controlled by Grazon Pro.**

**To allow maximum translocation of Grazon Pro to the roots do not cut grass for 28 days after application.**

**It is good agricultural practice to keep pets out of treated areas until the spray has dried (approximately 2 hours).**

## Safety Data Sheet

This Safety Data Sheet does not form part of the approved product label.

### Section 1. Identification of the substance/preparation and of the company/undertaking

Revised: September 2013

#### 1.1 Product identifiers

##### Product Name

GRAZON PRO Herbicide

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

Plant Protection Product

#### 1.3 Details of the supplier of the safety data sheet

##### COMPANY IDENTIFICATION

Dow AgroSciences Limited  
A Subsidiary of The Dow Chemical Company  
Latchmore Court, Brand Street  
SG5 1NH Hitchin  
United Kingdom

[SDSQuestion@dow.com](mailto:SDSQuestion@dow.com)

#### 1.4 EMERGENCY TELEPHONE NUMBER

24-Hour Emergency Contact: 0031 115 694 982

Local Emergency Contact: 00 31 115 69 4982

### Section 2. Hazards Identification

#### 2.1 Classification of the substance or mixture

##### Classification according to EU Directives 67/548/EEC or 1999/45/EC

Xn	R65	Harmful: may cause lung damage if swallowed.
Xi	R36/37/38	Irritating to eyes, respiratory system and skin.
	R43	May cause sensitisation by skin contact.
	R67	Vapours may cause drowsiness and dizziness.
N	R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### 2.2 Label elements

##### Labelling according to EC Directives

###### Hazard Symbol:

Xn - Harmful.  
N - Dangerous for the environment.

###### Risk Phrases:

R65 - Harmful: may cause lung damage if swallowed.  
R36/37/38 - Irritating to eyes, respiratory system and skin.  
R43 - May cause sensitisation by skin contact.  
R67 - Vapours may cause drowsiness and dizziness.  
R51/53 - Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

#### Safety Phrases:

S2 - Keep out of the reach of children  
S13 - Keep away from food, drink and animal feeding stuffs  
S24 - Avoid contact with skin.  
S23 - Do not breathe vapour.  
S26 - In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.  
S35 - This material and its container must be disposed of in a safe way.  
S36/37 - Wear suitable protective clothing and gloves.  
S46 - If swallowed, seek medical advice immediately and show this container or label.  
S57 - Use appropriate containment to avoid environmental contamination.  
S62 - If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

To avoid risks to man and the environment, comply with the instructions for use.

#### 2.3 Other Hazards

No information available.

### Section 3. Composition/information on ingredients

#### 3.2 Mixture

This product is a mixture.

CAS-No. / EC-No. / REACH No. Index	Amount	Component	Classification: REGULATION (EC) No 1272/2008
CAS-No. 64700-56-7 EC-No. 265-024-8	— 32.5 %	Triclopyr-2-butoxyethyl ester	Acute Tox., 4, H302 Skin Sens., 1B, H317 Aquatic Acute, 1, H400 Aquatic Chronic, 1, H410
CAS-No. 1702-17-6 EC-No. 216-935-4 Index 607-231-00-1	— 5.8 %	clopyralid (ISO)	Eye cor/irr, 1, H318
CAS-No. Not available EC-No. 918-668-5	01-2119455851-35 > 40.0 - < 50.0 %	Hydrocarbons, C9, aromatics	Flam. Liq., 3, H226 Asp. Tox., 1, H304 STOT SE, 3, H335 STOT SE, 3, H336 Aquatic Chronic, 2, H411
CAS-No. 1118-92-9 EC-No. 214-272-5	— < 10.0 %	N,N-Dimethyloctanamide	Skin cor/irr, 2, H315 Eye Dam., 1, H318

CAS-No. / EC-No. / REACH No. Index	Amount	Component	Classification: REGULATION (EC) No 1272/2008
CAS-No. not available EC-No. 922-153-0	01-2119451097-39 < 5.0 %	Hydrocarbons, C10-C13, aromatics, <1% naphthalene	Asp. Tox., 1, H304 Aquatic Chronic, 2, H411
CAS-No. 68953-96-8 EC-No. 273-234-6	— < 5.0 %	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	Skin cor/irr, 2, H315 Eye cor/irr, 1, H318

CAS-No. / EC-No. / REACH No. Index	Amount	Component	Classification: REGULATION (EC) No 1272/2008
CAS-No. 64700-56-7 EC-No. 265-024-8	32.5 %	Triclopyr-2-butoxyethyl ester	Xn: R22; R43; N: R50/53
CAS-No. 1702-17-6 EC-No. 216-935-4 Index 607-231-00-1	5.8 %	clopyralid (ISO)	Xi: R41
CAS-No. Not available EC-No. 918-668-5 Index 1118-92-9	> 40.0 - < 50.0 %	Hydrocarbons, C9, aromatics	R10; Xn: R65; Xi: R37; R66; R67; N: R51/53
CAS-No. 214-272-5 EC-No. not available	< 10.0 %	N,N-Dimethyloctanamide	Xi: R38, R41
CAS-No. 922-153-0 EC-No. 68953-96-8 EC-No. 273-234-6	< 5.0 %	Hydrocarbons, C10-C13, aromatics, <1% naphthalene	Xn: R65; R66; N: R51/53
CAS-No. 68953-96-8 EC-No. 273-234-6	< 5.0 %	Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts	Xi: R38, R41

For the full text of the H-Statements mentioned in this Section, see Section 16.  
See Section 16 for full text of R-phrases.

## Section 4. First-aid measures

### 4.1 Description of first aid measures

**General advice:** First Aid responders should pay attention to self-protection and use the recommended protective clothing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

**Inhalation:** Move person to fresh air. If person is not breathing, call an emergency responder or ambulance, then give artificial respiration; if by mouth to mouth use rescuer protection (pocket mask etc). Call a poison control centre or doctor for treatment advice. If breathing is difficult, oxygen should be administered by qualified personnel.

**Skin Contact:** Take off contaminated clothing. Wash skin with soap and plenty of water for 15-20 minutes. Call a poison control centre or doctor for treatment advice. Wash clothing before re-use. Shoes and other leather items which cannot be decontaminated should be disposed of properly.

**Eye Contact:** Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eyes. Call a poison control centre or doctor for treatment advice. Suitable emergency eye wash facility should be immediately available.

**Ingestion:** Immediately call a poison control centre or doctor. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give any liquid to the person. Do not give anything by mouth to an unconscious person.

### 4.2 Most important symptoms and effects, both acute and delayed

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), no additional symptoms and effects are anticipated.

### 4.3 Indication of immediate medical attention and special treatment needed

Maintain adequate ventilation and oxygenation of the patient. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. The decision of whether to induce vomiting or not should be made by a physician. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient. Have the Safety Data Sheet, and if available, the product container or label with you when calling a poison control centre or doctor, or going for treatment. Skin contact may aggravate pre-existing dermatitis.

## Section 5. Fire Fighting Measures

### 5.1 Extinguishing Media

Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.

### 5.2 Special hazards arising from the substance or mixture

**Hazardous Combustion Products:** During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide.

**Unusual Fire and Explosion Hazards:** Container may rupture from gas generation in a fire situation. Violent steam generation or eruption may occur upon application of direct water stream to hot liquids. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur.

## 5.3 Advice for firefighters

**Fire Fighting Procedures:** Keep people away. Isolate fire and deny unnecessary entry. Stay upwind. Keep out of low areas where gases (fumes) can accumulate. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. Fight fire from protected location or safe distance. Consider the use of unmanned hose holders or monitor nozzles. Immediately withdraw all personnel from the area in case of rising sound from venting safety device or discoloration of the container. Burning liquids may be extinguished by dilution with water. Do not use direct water stream. May spread fire. Eliminate ignition sources. Move container from fire area if this is possible without hazard. Burning liquids may be moved by flushing with water to protect personnel and minimise property damage. Contain fire water run-off if possible. Fire water run-off, if not contained, may cause environmental damage. Review the "Accidental Release Measures" and the "Ecological Information" sections of this (M)SDS.

**Special Protective Equipment for Firefighters:** Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

## Section 6. Accidental Release Measures

**6.1 Personal precautions, protective equipment and emergency procedures:** No smoking in area. Isolate area. Keep unnecessary and unprotected personnel from entering the area. Keep personnel out of low areas. Keep upwind of spill. Ventilate area of leak or spill. Eliminate all sources of ignition in vicinity of spill or released vapour to avoid fire or explosion. Vapour explosion hazard. Keep out of sewers. Refer to Section 7, Handling, for additional precautionary measures. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

**6.2 Environmental precautions:** Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

**6.3 Methods and materials for containment and cleaning up:** Contain spilled material if possible. Small spills: Absorb with materials such as: Clay. Dirt. Sand. Sweep up. Collect in suitable and properly labeled containers. Large spills: Contact Dow AgroSciences for clean-up assistance. Pump with explosion-proof equipment. If available, use foam to smother or suppress. See Section 13, Disposal Considerations, for additional information.

## Section 7. Handling and Storage

### 7.1 Precautions for safe handling

#### Handling

**General Handling:** Keep out of reach of children. Keep away from heat, sparks and flame. Do not swallow. Avoid contact with eyes, skin, and clothing. Avoid breathing vapour or mist. Avoid prolonged or repeated contact with skin. Wash thoroughly after handling. Keep container closed. Use with adequate ventilation. No smoking, open flames or sources of ignition in handling and storage area. Electrically ground and bond all equipment. Use of non-sparking or explosion-proof equipment may be necessary, depending upon the type of operation. Containers, even those that have been emptied, can contain vapours. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Vapours are heavier than air and may travel a long distance and accumulate in low lying areas. Ignition and/or flash back may occur. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION.

## 7.2 Conditions for safe storage, including any incompatibilities

### Storage

Store in a dry place. Store in original container. Keep container tightly closed when not in use. Do not store near food, foodstuffs, drugs or potable water supplies. Minimise sources of ignition, such as static build-up, heat, spark or flame. Avoid temperatures above 40°C (104°F)

### 7.3 Specific end uses

Refer to product label.

## Section 8. Exposure Controls / Personal Protection

### 8.1 Control parameters

#### Exposure Limits

Component	List	Type	Value	
T Trioclypr-2-butoxyethyl ester	Dow IHG	TWA	2 mg/m3 D-SEN	
	l oclypralid (ISO)	Dow IHG	TWA	10 mg/m3
	H ydrocarbons, C9, aromatics	DNEL-Worker:	Dermal - Systemic Long Term.	25 mg/kg bw/day
		DNEL-Worker:	Inhalation - Systemic Long Term.	100 mg/m3
H ydrocarbons, C10-C13, aromatics, <1% naphthalene	DNEL-Consumer:	Dermal - Systemic Long Term.	11 mg/kg bw/day	
	DNEL-Consumer:	Inhalation - Systemic Long Term.	32 mg/m3	
	DNEL-Consumer:	Oral - Systemic Long Term.	11 mg/kg bw/day	
	DNEL-Worker:	Dermal - Systemic Long Term.	12.5 mg/kg bw/day	
	DNEL-Worker:	Inhalation - Systemic Long Term.	151 mg/m3	
	DNEL-Consumer:	Dermal - Systemic Long Term.	7.5 mg/kg bw/day	
DNEL-Consumer:	Inhalation - Systemic Long Term.	32 mg/m3		
DNEL-Consumer:	Oral - Systemic Long Term.	7.5 mg/kg bw/day		

RECOMMENDATIONS IN THIS SECTION ARE FOR MANUFACTURING, COMMERCIAL BLENDING AND PACKAGING WORKERS. APPLICATORS AND HANDLERS SHOULD SEE THE PRODUCT LABEL FOR PROPER PERSONAL PROTECTIVE EQUIPMENT AND CLOTHING.

A "skin" notation following the inhalation exposure guideline refers to the potential for dermal absorption of the material including mucous membranes and the eyes either by contact with vapours or by direct skin contact.

It is intended to alert the reader that inhalation may not be the only route of exposure and that measures to minimize dermal exposures should be considered.

A D-SEN notation following the exposure guideline refers to the potential to produce dermal sensitization, as confirmed by human or animal data.

## 8.2 Exposure controls

### Personal Protection

**Eye/Face Protection:** Use chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent.

**Skin Protection:** Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.

**Hand protection:** Use chemical resistant gloves classified under Standard EN374: Protective gloves against chemicals and micro-organisms. Examples of preferred glove barrier materials include: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Styrene/butadiene rubber. Viton. Examples of acceptable glove barrier materials include: Butyl rubber. Chlorinated polyethylene. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyvinyl chloride ("PVC" or "vinyl"). 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) 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) is recommended. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.

**Respiratory Protection:** Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus. In confined or poorly ventilated areas, use an approved self-contained breathing apparatus or positive pressure air line with auxiliary self-contained air supply. Use the following CE approved air-purifying respirator: Organic vapour cartridge with a particulate pre-filter, type AP2.

**Ingestion:** Avoid ingestion of even very small amounts; do not consume or store food or tobacco in the work area; wash hands and face before smoking or eating.

### Engineering Controls

**Ventilation:** Use engineering controls to maintain airborne level below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary for some operations.

## Section 9. Physical and Chemical Properties

### 9.1 Information on basic physical and chemical properties

#### Appearance

Physical State

Colour

Odour

Odour Threshold

pH

Liquid.

Yellow

Aromatic

No test data available

2.04 pH Electrode (neat)

Melting Point

Freezing Point

Boiling Point (760 mmHg)

Flash Point - Closed Cup

Evaporation Rate (Butyl Acetate = 1)

Flammability (solid, gas)

Flammable Limits In Air

Vapour Pressure

Vapour Density (air = 1)

Specific Gravity (H2O = 1)

Solubility in water (by weight)

Partition coefficient, n-octanol/water (log Pow)

Autoignition Temperature

Decomposition Temperature

Explosive properties

Oxidizing properties

9.2 Other information

## Section 10. Stability and Reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

### 10.2 Chemical stability

Unstable at elevated temperatures.

### 10.3 Possibility of hazardous reactions

Polymerization will not occur.

**10.4 Conditions to Avoid:** Active ingredient decomposes at elevated temperatures.

Generation of gas during decomposition can cause pressure in closed systems. Pressure build-up can be rapid. Avoid direct sunlight.

**10.5 Incompatible Materials:** Avoid contact with: Strong acids. Strong bases. Strong oxidizers.

### 10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials. Decomposition products can include and are not limited to: Carbon monoxide. Carbon dioxide.

## Section 11. Toxicological Information

### 11.1 Information on toxicological effects

#### Acute Toxicity

##### Ingestion

Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal handling operations are not likely to cause injury; however, swallowing larger amounts may cause injury.

As product: LD50, rat, female 3,129 mg/kg

Not applicable

No test data available

No test data available.

55.1 °C *Pensky-Martens Closed Cup ASTM D 93*

No test data available

Not applicable to liquids

**Lower:** No test data available

**Upper:** No test data available

No test data available

No test data available

1.032 20 °C/4 °C *Digital Density Meter*

(*Oscillating Coil*)

emulsifiable

No data available for this product. See Section 12 for individual component data.

No test data available

No test data available

no data available

no data available

## Aspiration hazard

Aspiration into the lungs may occur during ingestion or vomiting, causing lung damage or even death due to chemical pneumonia.

### Dermal

Prolonged skin contact is unlikely to result in absorption of harmful amounts.

As product: LD50, rat, male and female > 5,000 mg/kg

### Inhalation

Vapour concentrations are attainable which could be hazardous on single exposure. May cause respiratory irritation and central nervous system depression. Symptoms may include headache, dizziness and drowsiness, progressing to incoordination and unconsciousness.

As product: The LC50 has not been determined.

### Eye damage/eye irritation

May cause moderate eye irritation which may be slow to heal. May cause slight corneal injury.

### Skin corrosion/irritation

Brief contact may cause moderate skin irritation with local redness.

### Sensitisation

#### Skin

Has demonstrated the potential for contact allergy in mice.

#### Respiratory

No relevant data found.

### Repeated Dose Toxicity

For the active ingredient(s): Triclopyr butoxyethyl ester. In animals, effects have been reported on the following organs: Kidney. Liver. Contains component(s) which have been reported to cause effects on the following organs in animals: Blood. Kidney. Liver. Eye. Respiratory tract.

### Chronic Toxicity and Carcinogenicity

For the active ingredient(s): Did not cause cancer in laboratory animals. For the minor component(s): Cumene. Has caused cancer in laboratory animals. However, the relevance of this to humans is unknown.

### Developmental Toxicity

For the active ingredient(s): Triclopyr butoxyethyl ester. Has been toxic to the foetus in laboratory animals at doses toxic to the mother. Did not cause birth defects in laboratory animals. Clopyralid caused birth defects in test animals, but only at greatly exaggerated doses that were severely toxic to the mothers. No birth defects were observed in animals given clopyralid at doses several times greater than those expected during normal exposure. For the solvent(s): Has caused birth defects in lab animals only at doses producing severe toxicity in the mother. Has been toxic to the foetus in laboratory animals at doses toxic to the mother.

### Reproductive Toxicity

For similar active ingredient(s). Triclopyr. In laboratory animal studies, effects on reproduction have been seen only at doses that produced significant toxicity to the parent animals. For the active ingredient(s): Clopyralid. In animal studies, did not interfere with reproduction.

### Genetic Toxicology

For the active ingredient(s): In vitro genetic toxicity studies were negative. Genetic toxicity studies in animals were negative for component(s) tested.

<b>Component Toxicology - Triclopyr-2-butoxyethyl ester</b>	
Inhalation	LC50, 4 h, Aerosol, rat > 4.8 mg/l
Inhalation	Maximum attainable concentration.
<b>Component Toxicology - 3,6-Dichloropicolinic acid (Clopyralid)</b>	
Inhalation	As product: LC50, 4 h, Dust, rat > 1 mg/l
Inhalation	Maximum attainable concentration. No deaths occurred at this concentration.
<b>Component Toxicology - Hydrocarbons, C9, aromatics</b>	
Inhalation	LC50, 4 h, rat > 10.2 mg/l
<b>Component Toxicology - Hydrocarbons, C10-C13, aromatics, &lt;1% naphthalene</b>	
Inhalation	As product: The LC50 has not been determined.
Inhalation	For similar material(s): LC50, Aerosol, rat > 4.778 mg/l

## Section 12. Ecological Information

### 12.1 Toxicity

Material is toxic to aquatic organisms (LC50/EC50/IC50 between 1 and 10 mg/L in the most sensitive species).

### Fish Acute & Prolonged Toxicity

LC50, Oncorhynchus mykiss (rainbow trout), flow-through test, 96 h: 1.47 mg/l

### Aquatic Invertebrate Acute Toxicity

EC50, Daphnia magna (Water flea), static test, 48 h, immobilization: 21.6 mg/l

### Aquatic Plant Toxicity

ErC50, Pseudokirchneriella subcapitata (green algae), static test, Growth rate inhibition, 72 h: 16.6 mg/l

### Toxicity to Above Ground Organisms

oral LD50, Colinus virginianus (Bobwhite quail): 1,156 mg/kg

oral LD50, Apis mellifera (bees): > 370 ug/bee

contact LD50, Apis mellifera (bees): > 413 ug/bee

### Toxicity to Soil Dwelling Organisms

LC50, Eisenia fetida (earthworms), 14 d: 224 mg/kg

### 12.2 Persistence and Degradability

Data for Component: **Triclopyr-2-butoxyethyl ester**

Chemical degradation (hydrolysis) is expected in the environment. Material is expected to biodegrade only very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

#### Stability in Water (1/2-life):

8.7 d; 25 °C; pH 7

#### OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
18 %	28 d	OECD 301B Test	fail

#### Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-life	Method
2.3E-11 cm <sup>3</sup> /s	5.6 h	Estimated.

**Theoretical Oxygen Demand:** 1.21 mg/mg

Data for Component: **Hydrocarbons, C9, aromatics**

Material is expected to biodegrade only very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

#### Stability in Water (1/2-life):

pH 4 - 9: Stable

#### OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
5 - 10 %	28 d	OECD 301B Test	fail

#### Indirect Photodegradation with OH Radicals

Rate Constant	Atmospheric Half-life	Method
5.481E-13 cm <sup>3</sup> /s	19.5 d	Measured

**Theoretical Oxygen Demand:** 0.71 mg/mg

Data for Component: **Hydrocarbons, C9, aromatics**

For the major component(s): Material is expected to biodegrade only very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability. For some component(s): Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Data for Component: **N,N-Dimethyloctanamide**

Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

#### OECD Biodegradation Tests:

Biodegradation	Exposure Time	Method	10 Day Window
> 80 %	28 d	OECD 301F Test	pass

Data for Component: **Hydrocarbons, C10-C13, aromatics, <1% naphthalene**

For similar material(s): Biodegradation may occur under aerobic conditions (in the presence of oxygen). Based on stringent OECD test guidelines, this material cannot be considered as readily biodegradable; however, these results do not necessarily mean that the material is not biodegradable under environmental conditions.

Data for Component: **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts**

No relevant data found.

### 12.3 Bioaccumulative potential

Data for Component: **Triclopyr-2-butoxyethyl ester**

**Bioaccumulation:** Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).

**Partition coefficient, n-octanol/water (log Pow):** 4.62

**Bioconcentration Factor (BCF):** 110; fish

Data for Component: **clopyralid (ISO)**

**Bioaccumulation:** Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

**Partition coefficient, n-octanol/water (log Pow):** -2.63

**Bioconcentration Factor (BCF):** < 1; Fish; Measured

Data for Component: **Hydrocarbons, C9, aromatics**

**Bioaccumulation:** For the major component(s): Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5). For the minor component(s): Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Data for Component: **N,N-Dimethyloctanamide**

**Bioaccumulation:** No relevant data found.

Data for Component: **Hydrocarbons, C10-C13, aromatics, <1% naphthalene**

**Bioaccumulation:** For similar material(s): Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).

Data for Component: **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts**

**Bioaccumulation:** No relevant data found.

### 12.4 Mobility in soil

Data for Component: **Triclopyr-2-butoxyethyl ester**

**Mobility in soil:** Calculation of meaningful sorption data was not possible due to very rapid degradation in the soil., For the degradation product., Triclopyr., Potential for mobility in soil is very high (Koc between 0 and 50).

**Henry's Law Constant (H):** 2.9E-03 Pa\*m<sup>3</sup>/mole.

Data for Component: **clopyralid (ISO)**

**Mobility in soil:** Potential for mobility in soil is very high (Koc between 0 and 50).

**Partition coefficient, soil organic carbon/water (Koc):** 4.9Henry's Law Constant (H): 1.8E-11 Pa\*m<sup>3</sup>/mole.; 20 °C

Data for Component: **Hydrocarbons, C9, aromatics**

**Mobility in soil:** For the major component(s), Potential for mobility in soil is low (Koc between 500 and 2000).

Data for Component: **N,N-Dimethyloctanamide**

**Mobility in soil:** No relevant data found.

Data for Component: **Hydrocarbons, C10-C13, aromatics, <1% naphthalene**

**Mobility in soil:** No relevant data found.

Data for Component: **Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts**

**Mobility in soil:** No relevant data found.

### 12.5 Results of PBT and vPvB assessment

Data for Component: **Triclopyr-2-butoxyethyl ester**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

Data for Component: **clopyralid (ISO)**

This substance is not considered to be persistent, bioaccumulating nor toxic (PBT). This substance is not considered to be very persistent nor very bioaccumulating (vPvB).

Data for Component: **Hydrocarbons, C9, aromatics**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**Data for Component: N,N-Dimethyloctanamide**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**Data for Component: Hydrocarbons, C10-C13, aromatics, <1% naphthalene**

This substance is not considered to be persistent, bioaccumulating and toxic (PBT). This substance is not considered to be very persistent and very bioaccumulating (vPvB).

**Data for Component: Benzenesulfonic acid, mono-C11-13-branched alkyl derivs., calcium salts**

This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).

**12.6 Other adverse effects**

This substance is not in Annex I of Regulation (EC) 2037/2000 on substances that deplete the ozone layer.

**Section 13. Disposal Considerations****13.1 Waste treatment methods**

If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

**Section 14. Transport Information****ADR/RID****14.1 UN number**

UN1993

**14.2 UN proper shipping name**

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

Technical Name: Petroleum Distillate and Triclopur

**14.3 Transport hazard class(es)**

Hazard Class: 3

**14.4 Packing Group**

PG III

**14.5 Environmental hazards**

Environmentally hazardous

**14.6 Special precautions for user**

Special Provisions: no data available

Hazard identification No:30

**ADNR / ADN****14.1 UN number**

UN1993

**14.2 UN proper shipping name**

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

Technical Name: Petroleum Distillate and Triclopur

**14.3 Transport hazard class(es)**

Hazard Class: 3

**14.4 Packing Group**

PG III

**14.5 Environmental hazards**

Environmentally hazardous

**14.6 Special precautions for user**

no data available

**IMDG****14.1 UN number**

UN1993

**14.2 UN proper shipping name**

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

Technical Name: Petroleum Distillate and Triclopur

**14.3 Transport hazard class(es)**

Hazard Class: 3

**14.4 Packing Group**

PG III

**14.5 Environmental hazards**

Marine pollutant

**14.6 Special precautions for user**

EMS Number: F-E,S-E

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**ICAO/IATA****14.1 UN number**

UN1993

**14.2 UN proper shipping name**

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.

Technical Name: Petroleum Distillate and Triclopur

**14.3 Transport hazard class(es)**

Hazard Class: 3

**14.4 Packing Group**

PG III

**14.5 Environmental hazards**

Environmentally hazardous

**14.6 Special precautions for user**

no data available

**Section 15. Regulatory Information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****European Inventory of Existing Commercial Chemical Substances (EINECS)**

The components of this product are on the EINECS inventory or are exempt from inventory requirements.

Product Registration Number: MAPP 15785

**15.2 Chemical Safety Assessment**

For proper and safe use of this product, please refer to the approval conditions laid down on the product label.

**Section 16. Other Information****Hazard statement in the composition section**

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

**Risk-phrases in the Composition section**

R10	Flammable.
R20	Harmful by inhalation.
R22	Harmful if swallowed.
R37	Irritating to respiratory system.
R38	Irritating to skin.
R41	Risk of serious damage to eyes.
R43	May cause sensitisation by skin contact.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R65	Harmful: may cause lung damage if swallowed.
R66	Repeated exposure may cause skin dryness or cracking.
R67	Vapours may cause drowsiness and dizziness.

**Revision**

Identification Number: 1007202 / 3027 / Issue Date 2013/07/29 / Version: 2.0

DAS Code: GF-1652

Most recent revision(s) are noted by the bold, double bars in left-hand margin throughout this document.

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SPECIMEN



## SAFETY PRECAUTIONS

### Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

- Operators must wear suitable protective clothing (coveralls), suitable protective gloves, rubber boots and face protection (faceshield) when handling the concentrate.
- Operators must wear suitable protective clothing (coveralls), suitable protective gloves and rubber boots when applying by hand-held equipment.
- Operators must wear suitable protective gloves when handling contaminated surfaces.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the insides of gloves.

DO NOT APPLY by hand-held rotary atomiser equipment.

WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

### Consumer protection:

NOT TO BE USED ON FOOD CROPS.

### Environmental protection:

To protect aquatic organisms respect an unsprayed buffer zone to surface water bodies in line with LERAP requirements.

LERAP  
B

DO NOT ALLOW DIRECT SPRAY from horizontal boom sprayers to fall within 5 m of the top of the bank of a static or flowing water body, unless a Local Environment Risk Assessment for Pesticides (LERAP) permits a narrower buffer zone, or within 1 m of the top of a ditch which is dry at the time of application. DO NOT ALLOW DIRECT SPRAY

from hand-held sprayers to fall within 1 m of the top of the bank of a static or flowing water body. Aim spray away from water.

This product qualifies for inclusion within the Local Environment Risk Assessment for Pesticides (LERAP) scheme. Before each spraying operation from a horizontal boom sprayer, either a LERAP must be carried out in accordance with CRD's published guidance or the statutory buffer zone must be maintained. The results of the LERAP must be recorded and kept available for three years.

Extreme care must be taken to avoid spray drift onto non-crop plants outside of the target area.

DO NOT CONTAMINATE WATER with the product or its container. Do not clean application equipment near surface water. Avoid contamination via drains from farmyards and roads.

### Storage and disposal:

KEEP OUT OF REACH OF CHILDREN.

KEEP AWAY FROM FOOD, DRINK AND ANIMAL FEEDING STUFFS.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

DO NOT RE-USE CONTAINER for any purpose.

This label is compliant with the CPA Voluntary Initiative Guidance.



**FOR SPOT TREATMENT BY KNAPSACK USE  
60 ml GRAZON PRO IN 10 LITRES OF WATER**



Dow AgroSciences



**Grazon** PRO

HERBICIDE

Product Registration Number: MAPP 15785

An emulsifiable concentrate containing  
240 g/litre triclopyr (present as 334 g/litre of triclopyr butyl) and  
60 g/litre clopyralid.

A foliar acting herbicide for the control of NETTLES, DOCKS, THISTLES,  
BRAMBLES, BROOM and GORSE in ESTABLISHED GRASSLAND.

The (COSHH) Control of Substances Hazardous to Health Regulations may  
apply to the use of this product at work.

**READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.**

**PROTECT FROM FROST.**

1 L e

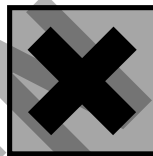
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**HARMFUL**



**DANGEROUS FOR  
THE ENVIRONMENT**

**HARMFUL: MAY CAUSE LUNG DAMAGE IF SWALLOWED.  
IRRITATING TO EYES, RESPIRATORY SYSTEM AND SKIN.  
MAY CAUSE SENSITISATION BY SKIN CONTACT.  
VAPOURS MAY CAUSE DROWSINESS AND DIZZINESS.  
TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE  
EFFECTS IN THE AQUATIC ENVIRONMENT.**

Do not breathe vapour.

Avoid contact with skin and eyes.

Wear suitable protective clothing and gloves.

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

This material and its container must be disposed of in a safe way. Use appropriate containment to avoid environmental contamination.

**To avoid risks to man and the environment, comply with the instructions for use.**

### IMPORTANT INFORMATION.

FOR USE ONLY AS AN AGRICULTURAL HERBICIDE

<b>Crops/Situations:</b>	Grassland
<b>Maximum Individual Dose:</b>	1.2 litres product per hectare (see Other Specific Restrictions)
<b>Maximum Number of Treatments:</b>	One per year

### Other Specific Restrictions:

DO NOT APPLY through hand-held rotary atomiser equipment.

The maximum concentration must not exceed 60 ml product per 10 litres of water (6 ml product per litre of water).

KEEP LIVESTOCK out of treated areas for at least 7 days and until foliage of any poisonous weeds such as ragwort has died and become unpalatable.

Applications must not be made outside the period of 1st March to 31st October.

**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS.**



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Tips for using Grazon Pro