#### SAFETY PRECAUTIONS

## Operator protection:

Engineering control of operator exposure must be used where reasonably

- a) Operators must wear suitable protective clothing (coveralls), suitable protective gloves, rubber boots and face protection (faceshield) when handling the concentrate.
- b) 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

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 eves immediately. DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

### Consumer protection:

NOT TO BE LISED ON FOOD CROPS

### **Environmental protection:**

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



# 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.

REEP 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 **60ml Grazon Pro in 10 Litres of Water**



**Dow AgroSciences** 





## **HERBICIDE**

Product Registration Number: MAPP 15785

An emulsifiable concentrate containing 240 g/litre triclopyr (present as 334 g/litre of triclopyr butotyl) 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.

#### Dow AgroSciences Limited

Latchmore Court, Brand Street, Hitchin, Hertfordshire. SG5 1NH. Telephone: Hitchin (01462) 457272 Fax: (01462) 426605 24 Hour Emergency Telephone Number: UK: +44 (0) 1553 761 251

® ™ Trademark of The Dow Chemical Company ("Dow") or an affiliated company of Dow







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: Maximum Individual Dose: Grassland

1.2 litres product per hectare (see Other Specific Restrictions)

Maximum Number of Treatments: One per vear

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.





## 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.

y acc ion to the supplication				
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 handheld 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.	Safety Phrases : S2 - Keep out of the reach of children S13 - Keep away from food, drink and animal feeding stuffs	CAS-No. / EC-No. / Index	REACH No.	Amount	Component	Classification: REGULATION (EC) No 1272/2008
Section 1. Identification of the substance/preparation and of the company/undertaking 1.1 Product identifiers Product Name GRAZON Herbicide 1.2 Relevant identified uses of the substance or mixture and uses advised against Identified uses Plant Protection Product	S24/25 - Avoid contact with skin and eyes. S23 - Do not breathe vapour. 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. Wear suitable protective clothing and gloves. S57 - Use appropriate containment to avoid environmental contamination. If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.	CAS-No. 1118-92-9 EC-No. 214-272-5 CAS-No. 108-67-8 EC-No. 203-604-4 Index	_	< 10.0 % < 5.0 %	Dimethyloctanamid	Skin cor/irr, 2, H315 e Eye Dam., 1, H318  - Flam. Liq., 3, H226 Eye cor/irr, 2, H319 Skin cor/irr, 2, H315 STOT SE, 3, H335 Asp. Tox., 1, H304
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	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.	601-025-00-5 CAS-No. 64742-94-5 EC-No. 265-198-5 Index 649-424-00-3	_	< 5.0 %	Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified	Aquatic Chronic, 2, H411 Asp. Tox., 1, H304 Aquatic Chronic, 2, H411
SDSQuestion@dow.com  1.4 EMERGENCY TELEPHONE NUMBER 24-Hour Emergency Contact: 0031 115 694 982 Local Emergency Contact: 00 31 115 69 4982	CAS-No. / EC-No. / REACH No. Amount Component Classification: REGULATION (EC) No 1272/2008	<b>CAS-No.</b> 98-82-8 <b>EC-No.</b> 202-704-5	_	< 5.0 %	Cumene	Flam. Liq., 3, H226 Asp. Tox., 1, H304 STOT SE, 3, H335 Aquatic Chronic, 2, H411
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.	CAS-No. — 32.5 % Triclopyr-2-butoxyethyl ester Skin Sens., 1, H317 Aquatic Acute, 1, H400 Aquatic Chronic, 1, H410 CAS-No. — 5.8 % clopyralid (ISO) Eye cor/irr, 1, H318 FC-No. 216-935-4	Index 601-024-00-X CAS-No. 68953-96-8 EC-No. 273-234-6	_	< 5.0 %	Benzenesulfonic acid, mono-C11- 13-branched alky derivs., calcium salts	
R67 Vapours may cause drowsiness and dizziness.  N R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.	607-231-00-1  CAS-No. > 40.0 - Solvent naphtha Flam. Liq., 3, H226	CAS-No. / EC-No. /	/ Amount	Compo	nent	Classification: 67/548/EEC
2.2 Label elements  Labelling according to EC Directives  Hazard Symbol:  Xn - Harmful.	64742-95-6 < 50.0 % (petroleum), light Asp. Tox., 1, H304  EC-No. arom.; Low boiling STOT SE, 3, H335  265-199-0 point naphtha - STOT SE, 3, H336  Index unspecified Aquatic Chronic, 2, H411	CAS-No. 64700-56-7 EC-No. 265-024-8	32.5 %	Triclopy ester	/r-2-butoxyethyl	Xn: R22; R43; N: R50/53
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.	649-356-00-4 <b>CAS-No.</b> — > 10.0 - 1,2,4- 95-63-6	CAS-No. 1702-17-6 EC-No. 216-935-4 Index 607-231-00-1	5.8 %	clopyra	llid (ISO)	Xi: R41

CAS-No. / EC-No. / Index	Amount	Component	Classification: 67/548/EEC	Section 4. First-aid measures 4.1 Description of first aid measures	5.3 Advice for firefighters Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Stay
CAS-No. 64742-95-6 EC-No. 265-199-0 Index 649-356-00-4	> 40.0 - < 50.0%	Solvent naphtha (petroleum), light arom.; Low boiling point naphtha- unspecified	R10; Xn: R65; Xi: R37; R66; R67; N: R51/53	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.	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.
CAS-No. 95-63-6 EC-No. 202-436-9 Index 601-043-00-3	> 10.0 - < 20.0%	1,2,4-Trimethylbenzene	R10; Xn: R20; Xi: R36/37/38; N: R51, R53	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.	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 Fireflighters: 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
CAS-No. 1118-92-9	< 10.0 %	N,N-Dimethyloctanamide	Xi: R38, R41	1838, R41 Call a poison control centre or doctor for treatment advice. Suitable emergency eye wash facility should be immediately available.	
<b>EC-No.</b> 214-272-5				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	Section 6. Accidental Release Measures
CAS-No. 108-67-8 EC-No. 203-604-4 Index	< 5.0 %	Mesitylene; 1,3,5-trimethylbenzene	R10; N: R51, R53; Xi: R36/37/38, R36/38; Xn: R65	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	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
601-025-00-5 CAS-No. 64742-94-5 EC-No. 265-198-5 Index 649-424-00-3	< 5.0 %	Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified	Xn: R65; R66; N: R51/53	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.	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.
<b>CAS-No.</b> 98-82-8	< 5.0 %	Cumene	R10; Xn: R65; Xi: R37; N: R51. R53	Skin contact may aggravate pre-existing dermatitis.	Section 7. Handling and Storage
EC-No. 202-704-5 Index				Section 5. Fire Fighting Measures 5.1 Extinguishing Media Water fog or fine spray. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.	7.1 Precautions for safe handling Handling
601-024-00-X	. F. O. O/	Dannan Mania	Vi. D00 D44	Foam. Alcohol resistant foams (ATC type) are preferred. General purpose synthetic foams (including AFFF) or protein foams may function, but will be less effective.	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
68953-96-8 EC-No. 273-234-6	\$88953-96-8 acid, mono-C11-13- EC-No. branched alkyl derivs., calcium salts 5.2 Special hazards arising from the substance Hazardus Combustion Products: During a fire, in addition to combustion products of varying c irritating. Combustion products may include an		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.	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.	
For the full text of the See Section 16 for ful		s mentioned in this Section rases.	n, see Section 16.	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.	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.

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

7.2 Conditions for safe storage, including any incompatibilities

# Section 8. Exposure Controls / Personal Protection

Storage

## 8.1 Control parameters **Exposure Limits**

Component	List	Туре	Value	
Cumene	Ireland OELV	TWA	100 mg/m3 20 ppm	SKIN
			Indicative OELV	
	Ireland OELV	STEL	250 mg/m3 50 ppm	SKIN
			Indicative OELV	
	ACGIH	TWA	50 ppm	
	EU IOELV	TWA	100 mg/m3 20 ppm	SKIN
	EU IOELV	STEL	250 mg/m3 50 ppm	SKIN
	UK WEL	TWA	125 mg/m3 25 ppm	SKIN
	UK WEL	STEL	250 mg/m3 50 ppm	SKIN
clopyralid (ISO)	Dow IHG	TWA	10 mg/m3	
Mesitylene; 1,3,5-	EU IOELV	TWA	100 mg/m3 20 ppm	
trimethylbenzene	ACGIH	TWA	25 ppm	
	UK WEL	TWA	125 mg/m3 25 ppm	
1,2,4-Trimethylbenzene	EU IOELV	TWA	100 mg/m3 20 ppm	
	ACGIH	TWA	25 ppm	

TWA

TWA

TWA

UK WEL

Dow IHG

Triclopyr-2-butoxyethyl ester

contact with vapours or by direct skin contact.

dermal sensitization, as confirmed by human or animal data.

CLOTHING

Ireland OELV

## 125 mg/m3 25 ppm 100 mg/m3 20 ppm SKIN Indicative OELV 2 mg/m3 D-SEN 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

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

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

Physical State Colour Odour Odour Threshold

**Appearance** 

**Engineering Controls** 

for some operations.

8.2 Exposure controls

Personal Protection

EN 166 or equivalent.

Eve/Face Protection: Use chemical googles. Chemical googles should be consistent with

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

materials include: Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Styrene/butadiene

gloves against chemicals and micro-organisms. Examples of preferred glove barrier

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

Respiratory Protection: Respiratory protection should be worn when there is a potential

may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the

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

air line with auxiliary self-contained air supply. Use the following CE approved

tobacco in the work area; wash hands and face before smoking or eating.

ventilated areas, use an approved self-contained breathing apparatus or positive pressure

air-purifying respirator: Organic vapour cartridge with a particulate pre-filter, type AP2.

Ventilation: Use engineering controls to maintain airborne level below exposure limit

requirements or quidelines. If there are no applicable exposure limit requirements or

guidelines, use only with adequate ventilation. Local exhaust ventilation may be necessary

Ingestion: Avoid ingestion of even very small amounts; do not consume or store food or

instructions/specifications provided by the glove supplier.

Section 9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Liquid. Yellow Aromatic No test data available

2.04 pH Electrode (neat)

Inaestion Low toxicity if swallowed. Small amounts swallowed incidentally as a result of normal

may cause injury.

Melting Point

Freezina Point

Boiling Point (760 mmHg)

Flash Point - Closed Cup

Flammability (solid, gas)

Flammable Limits In Air

Vapour Density (air = 1)

Specific Gravity (H20 = 1)

Autoignition Temperature **Decomposition Temperature** 

**Explosive properties** 

Oxidizing properties

10.1 Reactivity

oxidizers

9.2 Other information

10.2 Chemical stability

Unstable at elevated temperatures.

Polymerization will not occur.

10.3 Possibility of hazardous reactions

build-up can be rapid. Avoid direct sunlight.

10.6 Hazardous decomposition products

Solubility in water (by weight)

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

Section 10. Stability and Reactivity

No dangerous reaction known under conditions of normal use.

Vapour Pressure

Evaporation Rate (Butyl Acetate = 1)

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

**Acute Toxicity** 

11.1 Information on toxicological effects

Section 11. Toxicological Information

Carbon dioxide.

handling operations are not likely to cause injury; however, swallowing larger amounts

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

Generation of gas during decomposition can cause pressure in closed systems. Pressure

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

Not applicable

No test data available

no data available

no data available

(Oscillating Coil)

emulsifiable

Not applicable to liquids

Lower: No test data available

Upper: No test data available

for individual component data.

1.032 20 °C/4 °C Digital Density Meter

No data available for this product. See Section 12

55.1 °C Pensky-Martens Closed Cup ASTM D 93

materials. Decomposition products can include and are not limited to: Carbon monoxide.

Decomposition products depend upon temperature, air supply and the presence of other

## Asniration 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.

## Eve damage/eve irritation

May cause moderate eve 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, Eve. 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.

#### Component Toxicology - Triclopyr-2-butoxyethyl ester LC50 4 h Other rat > 4.8 mg/l Inhalation

As product: LC50, 4 h, Dust, rat > 1 mg/l Inhalation Maximum attainable concentration. No deaths occurred at this concentration Component Toxicology - Solvent naphtha (petroleum), light aromatic

Inhalation LC50 4 h rat > 10.2 mg/L

Maximum attainable concentration

- 3.6-Dichloropicolinic acid (Clopyralid)

Component Toxicology - 1.2.4-Trimethylbenzene Inhalation LC50, 4 h, rat 18 mg/l

Component Toxicology - 1.3.5-Trimethylbenzene No deaths occurred at this concentration, LC50, 4 h. Vapor. Inhalation

rat. male and female > 10.2 mg/L Component Toxicology - Solvent naphtha (petroleum), heavy aromatic

LC50, 4 h. Aerosol, rat > 4.8 mg/l Inhalation

LC50, 4 h. Vapor, rat > 0.2 mg/l Inhalation No deaths occurred following exposure to a saturated atmosphere.

Component Toxicology - Cumene

Inhalation LC50.4 h. rat > 17.6 mg/l

Section 12. Ecological Information

## 12.1 Toxicity

Inhalation

Inhalation

Inhalation

Component Toxicology

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): 12 h: 25 °C: pH 6.7

Data for Component: clopyralid (ISO)

**OECD Biodegradation Tests:** Biodegradation **Exposure Time** OECD 301B Test 18 % 28 d

Material is expected to biodegrade only very slowly (in the environment). Fails to

10 Day Window

nass

10 Day Window

10 Day Window

Method

Method

pass OECD/EEC tests for ready biodegradability.

Stability in Water (1/2-life):

· nH 4 - 9

**OECD Biodegradation Tests:** Biodegradation Exposure Time

5 - 10 % 28 d OECD 301B Test Theoretical Oxygen Demand: 0.71 mg/mg

fail

## Data for Component: Solvent nanhtha (netroleum), light arom.: Low boiling point naphtha - unspecified

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 quidelines, 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: 1.2.4-Trimethylbenzene Material is expected to biodegrade only very slowly (in the environment). Fails to

pass OECD/EEC tests for ready biodegradability. **OECD Biodegradation Tests:** 

Biodegradation

4 - 18 %

Exposure Time Method 28 d

10 Day Window OECD 301C Test | Not applicable

Data for Component: N.N-Dimethyloctanamide Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.

OECD Biodegradation Tests:

Biodegradation

Exposure Time Method > 80 % 28 d

10 Day Window OECD 301F Test pass Data for Component: Mesitylene; 1,3,5-trimethylbenzene

### 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. OECD Biodegradation Tests:

Biodegradation

0 %

Exposure Time Method

28 d OECD 301C Test Not applicable 50 % 4 4 d Calculated Not applicable

Data for Component: Solvent naphtha (petroleum), heavy arom.: Kerosine - unspecified 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.

OECD Biodegradation Tests: Biodegradation Exposure Time Method 10 Day Window  30 - 41 % 28 d OECD 301D Test fail  Data for Component: Cumene  Material is readily biodegradable. Passes OECD test(s) for ready biodegradability.  OECD Biodegradation Tests: Biodegradation Exposure Time Method 10 Day Window  86 % 28 d OECD 301D Test pass  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): 4.09 - 4.49 Measured  Data for Component: clopyralid (ISO)  Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3).  Partition coefficient, n-catanol/water (log Pow): 2.63  Bioconcentration Factor (BCF): < 1; Fish; Measured  Data for Component: Solvent naphtha (petroleum). light arom.; Low boiling point naphtha - unspecified  Bioaccumulation: For the major component(s): Bioconcentration potential is	Data for Component: Cumene Bioaccumulation: Bioconcentration potential is low (BCF < 100 or Log Pow < 3). Partition coefficient, n-octanol/water (log Pow): 3.4 - 3.7 Measured Bioconcentration Factor (BCF): 35.5; Fish; Measured 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: No relevant data found.  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): 1.6E-11 - 2.2E-11 Pa*m3/mole; 20 °C Data for Component: Solvent naphtha (petroleum). light arom.; Low boiling point naphtha - unspecified Mobility in soil: For the major component(s)., Potential for mobility in soil is low (Koc between 500 and 2000). Data for Component: 1.2.4-Trimethylbenzene Mobility in soil: Potential for mobility in soil is low (Koc between 500 and 2000). Partition coefficient, soil organic carbon/water (Koc): 720 Estimated. Henry's Law Constant (H): 6:16E-03 atm*m3/mole; 25 °C Measured Data for Component: No. Polimethyloctanamide Mobility in soil: No relevant data found. Data for Component: Mesitylene; 1,3,5-trimethylbenzene	Data for Component: Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified  This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).  Data for Component: 1.2.4-Trimethylbenzene  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: Mesitylene; 1.3.5-trimethylbenzene  Non-classified vPvB substance Non-classified PBT substance  Data for Component: Solvent naphtha (petroleum), heavy arom.; Kerosine - unspecified  This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).  Data for Component: Cumene  This substance has not been assessed for persistence, bioaccumulation and toxicity (PBT).  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.		
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: 1.2.4-Trimethylbenzene  Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).  Partition coefficient, n-octanol/water (log Pow): 3.63 Measured  Bioconcentration Factor (BCF): 33 - 275; Cyprinus carpio (Carp); Measured  Data for Component: N.N-Dimethyloctanamide  Bioaccumulation: No relevant data found.  Data for Component: Mesitylene: 1.3.5-trimethylbenzene  Bioaccumulation: Bioconcentration potential is moderate (BCF between 100 and 3000 or Log Pow between 3 and 5).  Partition coefficient, n-octanol/water (log Pow): 3.42 Measured  Bioconcentration Factor (BCF): 161; Pimephales promelas (fathead minnow); Measured  Data for Component: Solvent naphtha (petroleum), heavy arom.: Kerosine - unspecified  Bioaccumulation: Bioconcentration potential is high (BCF > 3000 or Log Pow between 5 and 7).  Partition coefficient, n-octanol/water (log Pow): 2.9 - 6.1 Measured  Bioconcentration Factor (BCF): 61 - 159; Fish	Mobility in soil: Potential for mobility in soil is low (Koc between 500 and 2000).  Partition coefficient, soil organic carbon/water (Koc): 741.65 Estimated.  Henry's Law Constant (H): 1.97E-02 atm *m3/mole; 25 °C Estimated.  Data for Component: Solvent naphtha (petroleum), heavy arom.: Kerosine - unspecified Mobility in soil: No data available.  Data for Component: Gumene  Mobility in soil: Potential for mobility in soil is low (Koc between 500 and 2000).  Partition coefficient, soil organic carbon/water (Koc): 800 - 2,800 Estimated. Henry's Law Constant (H): 1.15E-02 atm *m3/mole; 25 °C Measured  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 persistent, bioaccumulating nor toxic (PBT). This substance is considered to be very persistent and very bioaccumulating (vPvB).	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  ROAD & RAIL  Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.  Technical Name: Petroleum Distillate and Triclopyr  Hazard Class: 3 ID Number: UN1993 Packing Group: PG III  Classification: F1  Hazard identification No: 30  Environmental Hazard: Yes		

OCEAN	Risk-phrases in the Co	omposition section				
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.	R10	Flammable				
Technical Name: Petroleum Distillate and Triclopyr	R20	Harmful by inhalation.				
Hazard Class: 3 ID Number: UN1993 Packing Group: PG III	R22	Harmful if swallowed.				
EMS Number: F-E,S-E	R36/37/38	Irritating to eyes, respiratory system and skin.				
Marine pollutant.: Yes	R37	Irritating to respiratory system.				
AIR	R38	Irritating to skin.				
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.	R41	Risk of serious damage to eyes.				
Technical Name: Petroleum Distillate and Triclopyr	R43	May cause sensitisation by skin contact.				
Hazard Class: 3 ID Number: UN1993 Packing Group: PG III	R50/53	Very toxic to aquatic organisms, may cause long-term adverse				
Cargo Packing Instruction: 366		effects in the aquatic environment.				
Passenger Packing Instruction: 355	R51/53	Toxic to aquatic organisms, may cause long-term adverse				
Environmental Hazard: Yes		effects in the aquatic environment.				
INLAND WATERWAYS	R65	Harmful: may cause lung damage if swallowed.				
Proper Shipping Name: FLAMMABLE LIQUID, N.O.S.	R66	Repeated exposure may cause skin dryness or cracking.				
Technical Name: Petroleum Distillate and Triclopyr	R67	Vapours may cause drowsiness and dizziness.				
Hazard Class: 3 ID Number: UN1993 Packing Group: PG III	Revision					
Classification: F1	nevision Identification Number: 1007202 / 3027 / Issue Date 2012/06/15 / Version: 1.1					
Hazard identification No: 30	DAS Code: GF-1652					
Environmental Hazard: Yes		) are noted by the bold, double bars in left-hand margin				
Section 15. Regulatory Information	throughout this docum					
15.1 Safety, health and environmental regulations/legislation specific for the	Dow AgroSciences Limited urges each customer or recipient of this (M)SDS to study it					
substance or mixture		propriate expertise, as necessary or appropriate, to become aware				
European Inventory of Existing Commercial Chemical Substances (EINECS)		lata contained in this (M)SDS and any hazards associated with the				
The components of this product are on the EINECS inventory or are exempt from	product. The information herein is provided in good faith and believed to be accurate as					
inventory requirements.	of the effective date shown above. However, no warranty, express or implied, is given.					
Product Registration Number: PCS No. 04261	Regulatory requirements are subject to change and may differ between various locations.					
		esponsibility to ensure that his activities comply with all federal,				
15.2 Chemical Safety Assessment		l laws. The information presented here pertains only to the				
For proper and safe use of this product, please refer to the approval conditions laid		nce conditions for use of the product are not under the control of				
down on the product label.		he buyer's/user's duty to determine the conditions necessary for duct. Due to the proliferation of sources for information such as				
Section 16. Other Information		nuct. Due to the promeration of sources for information such as MISDSs, we are not and cannot be responsible for (MISDSs				
Hazard statement in the composition section	obtained from any sour	ce other than ourselves. If you have obtained an (M)SDS from				
H226 Flammable liquid and vapour.		vare not sure that the (M)SDS you have is current, please contact				
H302 Harmful if swallowed.	us for the most current	vérsion.				
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.						
H319 Causes serious eye irritation.						
H332 Harmful if inhaled.						
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.						

#### SAFFTY 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 WASH ALL PROTECTIVE CLOTHING thoroughly after use, especially the

insides of aloves.

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.



# 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

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 **60ml 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 butotyl) 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.

### Dow AgroSciences Limited

Latchmore Court, Brand Street, Hitchin, Hertfordshire, SG5 1NH, Telephone: Hitchin (01462) 457272 Fax: (01462) 426605 24 Hour Emergency Telephone Number: UK: +44 (0) 1553 761 251

("Dow") or an affiliated company of Dow







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 vear

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.

