

SAFETY PRECAUTIONS

Operator protection:

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

WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate or contaminated surfaces.

WEAR SUITABLE PROTECTIVE COVERALLS, SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when applying by hand-held equipment.

However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection. (UK only)
WHEN USING DO NOT EAT, DRINK OR SMOKE.

WASH CONCENTRATE from skin or eyes immediately.

Consumer protection:

DO NOT USE ON FOOD CROPS.

Environmental protection:

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

Storage and disposal:

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.

1 Litre e

This label is compliant with the CPA Voluntary Initiative Guidance (UK only).



Dow AgroSciences



Icade®

HERBICIDE

Product Registration Number: MAPP 16182 / PCS No 04249

A soluble concentrate containing 12 g ae/litre aminopyralid (present as 23.08 g/litre aminopyralid triisopropanolammonium salt) + 120 g ae/litre triclopyr (present as 167.36 g/litre triclopyr triethylammonium).

For the control of a wide range of deep-rooted PERENNIAL, HERBACEOUS WEEDS and WOODY WEEDS on NON-CROP LAND such as motorway and railway embankments, roadsides and industrial areas (but excluding airfields).

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

PROFESSIONAL USE ONLY

READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.

PROTECT FROM FROST.

Triple rinse containers, Puncture and Invert to Dry at Time of Use

Dow AgroSciences Limited

Latchmore Court, Brand Street, Hitchin, Hertfordshire. SG5 1NH.

Telephone: Hitchin (01462) 457272 Fax: (01462) 426605

24 Hour Emergency Telephone Number: +44 (0) 1553 761 251

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



IMPORTANT INFORMATION

FOR USE ONLY AS AN INDUSTRIAL HERBICIDE.

Crops/Situations: Amenity grassland

Maximum Individual Dose: 4.0 litres product per hectare

Maximum Total Dose: 4.0 litres product per hectare per year

DO NOT USE on airfields.

DO NOT USE ON LAND that will be grazed by livestock.

DO NOT USE ON LAND within one year of sowing seed.

DO NOT USE ON LAND where the vegetation will be cut for animal feed, fodder or bedding nor for composting or mulching within one calendar year of treatment.

Users must have received adequate instruction, training and guidance in the safe use of the product and must take all reasonable precautions to protect the health of human beings, creatures and plants and safeguard the environment.

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. MAPP 16182 / PCS No 04249

9 UKE 0713 ICADE A



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Possible risk to the unborn child

Wear suitable protective clothing and gloves
If swallowed, seek medical advice immediately and show this container or label.

Keep out of reach of children

Keep away from food, drink and animal feeding stuffs.

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.

P 0 0 3 6 0 1 4 9 0 3



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

Take extreme care to avoid drift onto susceptible crops, non-target plants or waterways. Do not apply directly to, or allow spray drift to come into contact with agricultural or horticultural crops, amenity plantings, gardens, ponds, lakes or watercourses.

SENSITIVE PLANTS may be harmed by residues of ICADE in soil and treated vegetation. Do not apply ICADE on or adjacent to soil which may be used as garden top-soil, potting soil, etc. or to grass which may be cut and used as mulch or for compost for horticultural or garden crops. Do not use cuttings from treated grass for mulching or composting.

Cut treated grass must not be removed from site, or used for animal feed, animal bedding, composting or mulching.

Treated grass must not be used for grazing.

On level ground there is negligible lateral movement but do not apply ICADE around desirable trees or shrubs, do not spray under the canopy and 1 metre at least from the trunk of desirable trees or shrubs. Care should be taken on slopes to prevent leaching into areas where desirable shrubs, etc are present.

NOTES

Grass and weeds must be actively growing to ensure good weed control and minimal check to the grass. Therefore do not spray in drought, hot or very cold weather conditions.

Do not use on grass less than one year old.

To allow maximum translocation to the roots do not cut grass for 7 days after application.

Clover will be killed by application of ICADE.

Wash equipment thoroughly with water and detergent immediately after use.

HERBACEOUS WEED CONTROL

BROADCAST APPLICATION

WEEDS CONTROLLED, RATES OF USE AND TIMING OF APPLICATION

Weeds	Rates of use litres/ha	Optimum timing of application
Bramble ¹	4.0	Treat when the bramble is actively growing but is less than 50 cm high.
Common mugwort	4.0	Treat when the mugwort is actively growing and less than 70cm high.
Common nettle ¹	2.0	Treat when the nettles are actively growing.
Creeping thistle	4.0	Treat when the thistle is actively growing and less than 70cm high.
Hogweed ²	4.0	Treat when the hogweed is actively growing and less than 70cm high.
Rosebay willowherb	4.0	Treat when the willowherb is actively growing and less than 15cm high.

¹ A second application may be required the following year.

² Moderately susceptible

WOODY AND HERBACEOUS WEED CONTROL

LOCALISED SPOT APPLICATION

WEEDS CONTROLLED, RATES OF USE AND TIMING OF APPLICATION

Weeds	Rate of use mL/10 litres of water	Optimum timing of application
Bramble	150	Up to 1 metre high.
Broom	200	Up to 1 metre high.
Buddleia	200	Up to 1 metre high.
Gorse	150	Up to 1 metre high.
Japanese knotweed	200	1 metre high, with good foliage cover.

TIMING OF APPLICATION

ICADE should be applied between March and the end of October. The timing of application of ICADE is crucial and for good results ICADE must be applied to actively growing weeds.

APPLICATION

Broadcast Treatment

ICADE should be applied through a tractor-mounted hydraulic sprayer provided it is in good working order and has been calibrated according to the manufacturers' recommendations.

Mixing

Fill the spray tank half full with water and add the required amount of ICADE mixing well. Top up with water and continue agitation until the spray tank is full. Maintain agitation while spraying. Use the spray immediately.

Spray Volume

For overall application ICADE should be used in a spray volume between 300L and 600L per hectare to give good coverage of the weeds. Higher water volumes are recommended where weed densities are high.

Spray Quality

Apply as a MEDIUM quality spray as defined by the BCPC system.

Spot Treatment

For localised treatment using a suitable lance from a knapsack or tractor mounted sprayer, use a solution of 150-200 mL of ICADE depending on the target weed, per 10 litres of water. Woody 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. Woody weeds should not exceed 1 metre in height.

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.

Safety Data Sheet

Dow AgroSciences Limited encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

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

1.1 Product identifiers

Product Name

ICADE™ Herbicide

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

Identified uses

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

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	R63	Possible risk of harm to the unborn child.
N	R52/53	Harmful 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.

Risk Phrases :

R63 - Possible risk of harm to the unborn child.
R52/53 - Harmful 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.
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.

Contains: Triclopyr Triethylamine Salt May produce an allergic reaction.

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 REGULATION (EC) No 1272/2008	Classification:
CAS-No. 57213-69-1 EC-No. 260-625-1	— 16.2 %	Triclopyr Triethylamine Salt	Flam. Liq., 3, H226 Met. Corr., 1, H290 Acute Tox., 4, H302 Eye cor/irr, 1, H318 Skin Sens., 1, H317 Aquatic Chronic, 2, H411
CAS-No. 566191-89-7 EC-No. Not available	— 2.2 %	Aminopyralid Trisopropanolamine Salt##	Not classified
CAS-No. 69029-39-6 EC-No. Polymer	— < 1.0 %	Alkylphenol alkoxylate	Eye cor/irr, 2, H319 Aquatic Chronic, 2, H411

CAS-No. / EC-No. / Index	Amount	Component	Classification: 67/548/EEC
CAS-No. 57213-69-1 EC-No. 260-625-1	16.2 %	Triclopyr Triethylamine Salt	R10; Xn: R22; Xi: R41; R43; N: R51/53
CAS-No. 566191-89-7 EC-No. Not available	2.2 %	Aminopyralid Trisopropanolamine Salt##	Not classified.
CAS-No. 69029-39-6 EC-No. Polymer	< 1.0 %	Alkylphenol alkoxylate	Xi: R36; N: R51, R53

Voluntarily disclosed component(s).

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 effects occur, consult a physician.

Skin Contact: Wash skin with plenty of water.

Eye Contact: Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a physician, preferably an ophthalmologist.

Ingestion: If swallowed, seek medical attention. Do not induce vomiting unless directed to do so by medical personnel.

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

No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5. Fire Fighting Measures

5.1 Extinguishing Media

To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers. Foam. General purpose synthetic foams (including AFFF type) or protein foams are preferred if available. Alcohol resistant foams (ATC type) may function.

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: Nitrogen oxides. Hydrogen chloride. Carbon monoxide. Carbon dioxide.

Unusual Fire and Explosion Hazards: This material will not burn until the water has evaporated. Residue can burn. May produce flash fire. If exposed to fire from another source and water is evaporated, exposure to high temperatures may cause toxic fumes.

5.3 Advice for firefighters

Fire Fighting Procedures: Keep people away. Isolate fire and deny unnecessary entry. Use water spray to cool fire exposed containers and fire affected zone until fire is out and danger of reignition has passed. To extinguish combustible residues of this product use water fog, carbon dioxide, dry chemical or foam. 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 self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). Avoid contact with this material during fire fighting operations. If contact is likely, change to full chemical resistant fire fighting clothing with self-contained breathing apparatus. If this is not available, wear full chemical resistant clothing with self-contained breathing apparatus and fight fire from a remote location. For protective equipment in post-fire or non-fire clean-up situations, refer to the relevant sections.

Section 6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures: Isolate area. Keep unnecessary and unprotected personnel from entering the area. Refer to Section 7, Handling, for additional precautionary measures. No smoking in area. 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. Large spills: Contact Dow AgroSciences for clean-up assistance. See Section 13, Disposal Considerations, for additional information.

Section 7. Handling and Storage

7.1 Precautions for safe handling

Handling

General Handling: Keep away from heat, sparks and flame. Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers. Keep out of reach of children. Do not swallow. Avoid breathing vapor or mist. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Wash thoroughly after handling.

Other Precautions: Containers, even those that have been emptied, can contain vapors. Do not cut, drill, grind, weld, or perform similar operations on or near empty containers.

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.

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
Tricloprr Triethylamine Salt	Dow IHG	TWA	2 mg/m3 D-SEN
Alkylphenol alkoxylate	Dow IHG	TWA	2 mg/m3

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

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.

8.2 Exposure controls

Personal Protection

Eye/Face Protection: Use safety glasses (with side shields). Safety glasses (with side shields) 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: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). Avoid gloves made of: Polyvinyl alcohol ("PVA"). When prolonged or frequently repeated contact may occur, a glove with a protection class of 4 or higher (breakthrough time greater than 120 minutes according to EN 374) is recommended. When only brief contact is expected, a glove with a protection class of 1 or higher (breakthrough time greater than 10 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, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, if material is heated or sprayed, use an approved air-purifying respirator. Use the following CE approved air-purifying respirator: Organic vapor cartridge with a particulate pre-filter, type AP2.

Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

Engineering Controls

Ventilation: Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. 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

Color

Odor

Liquid.
Red to brown
Mild

Odor Threshold

pH

Melting Point

Freezing Point

Boiling Point (760 mmHg)

Flash Point - Closed Cup

Evaporation Rate (Butyl Acetate = 1)

Flammable Limits In Air

No test data available
7.3
Not applicable
No test data available
No test data available.
78.8 °C *Closed Cup*
No test data available
Lower: No test data available
Upper: No test data available

Vapor Pressure

Vapor Density (air = 1)

Specific Gravity (H2O = 1)

Solubility in water (by weight)

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

Autoignition Temperature

Decomposition Temperature

Dynamic Viscosity

Kinematic Viscosity

Explosive properties

Oxidizing properties

No test data available
No test data available
No test data available
1.0528 *Unspecified*
Soluble
No data available for this product. See Section 12 for individual component data.
92/69/EEC A15 none below 400degC
No test data available
< 3 mPa.s
No test data available
No
No

9.2 Other information

Liquid Density

1.0528 g/cm3 *Digital density meter*

Section 10. Stability and Reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Thermally stable at recommended temperatures and pressures.

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.

10.5 Incompatible Materials: Avoid contact with: 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: Hydrogen chloride. Nitrogen oxides. Toxic gases are released during decomposition.

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 3,752 mg/kg

Dermal

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

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

Inhalation

Prolonged exposure is not expected to cause adverse effects.

As product: LC50, 4 h, Aerosol, rat > 5.34 mg/l

No deaths occurred at this concentration.

Eye damage/eye irritation

May cause slight eye irritation. May cause slight temporary corneal injury.

Skin corrosion/irritation

Brief contact may cause skin irritation with local redness.

Sensitization

Skin

Did not demonstrate the potential for contact allergy in mice.

Respiratory

No relevant data found.

Repeated Dose Toxicity

In animals, effects have been reported on the following organs: For the active ingredient(s):

Triclopyr triethylamine salt. Kidney. For similar active ingredient(s): Triclopyr.

Aminopyralid. Liver. Gastrointestinal tract.

Chronic Toxicity and Carcinogenicity

As product: No relevant data found.

Developmental Toxicity

Active ingredient did not cause birth defects in laboratory animals.

Reproductive Toxicity

As product: No relevant data found.

Genetic Toxicology

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

Section 12. Ecological Information

12.1 Toxicity

Material is not classified as dangerous to aquatic organisms (LC50/EC50/IC50/LL50/EL50 greater than 100 mg/L in most sensitive species). Material is slightly toxic to birds on an acute basis (LD50 between 501 and 2000 mg/kg).

Fish Acute & Prolonged Toxicity

LC50, Oncorhynchus mykiss (rainbow trout), flow-through test, 96 h: > 800 mg/l

Aquatic Invertebrate Acute Toxicity

EC50, Daphnia magna (Water flea), flow-through test, 48 h, immobilization: > 800 mg/l

Aquatic Plant Toxicity

ErC50, diatom Navicula sp., Growth rate inhibition, 96 h: > 100 mg/l

Toxicity to Above Ground Organisms

oral LD50, Colinus virginianus (Bobwhite quail): 1839 mg/kg bodyweight.

oral LD50, Apis mellifera (bees): 133.0 micrograms/bee

contact LD50, Apis mellifera (bees): > 191.6 micrograms/bee

Toxicity to Soil Dwelling Organisms

LC50, Eisenia fetida (earthworms), 14 d: > 0.3508 mg/kg

12.2 Persistence and Degradability

Data for Component: Triclopyr Triethylamine Salt

For similar active ingredient(s): Triclopyr. 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: Aminopyralid Triisopropanolamine Salt

For similar material(s): Aminopyralid. Material is not readily biodegradable according to OECD/EEC guidelines.

Data for Component: Alkylphenol alkoxyolate

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.

12.3 Bioaccumulative potential

Data for Component: Triclopyr Triethylamine Salt

Bioaccumulation: For similar active ingredient(s): Triclopyr. Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Data for Component: Aminopyralid Triisopropanolamine Salt

Bioaccumulation: For similar active ingredient(s): Aminopyralid. Bioconcentration potential is low (BCF < 100 or Log Pow < 3).

Data for Component: Alkylphenol alkoxyolate

Bioaccumulation: No bioconcentration is expected because of the relatively high water solubility. May foam in water.

12.4 Mobility in soil

Data for Component: Triclopyr Triethylamine Salt

Mobility in soil: For similar active ingredient(s): Triclopyr. Potential for mobility in soil is very high (Koc between 0 and 50).

Data for Component: Aminopyralid Triisopropanolamine Salt

Mobility in soil: For similar active ingredient(s): Aminopyralid. Potential for mobility in soil is very high (Koc between 0 and 50).

Data for Component: Alkylphenol alkoxyolate

Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment

Data for Component: Triclopyr Triethylamine Salt

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: Aminopyralid Triisopropanolamine Salt

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: Alkylphenol alkoxyolate

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

12.6 Other adverse effects

Data for Component: Triclopyr Triethylamine Salt

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

Data for Component: Aminopyralid Triisopropanolamine Salt

This substance is not in Annex I of Regulation (EC) No 1005/2009 on substances that deplete the ozone layer.

Data for Component: Alkylphenol alkoxyolate

This substance is not in Annex I of Regulation (EC) No 1005/2009 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

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

Special Provisions: no data available

Hazard identification No:no data available

ADNR / ADN

14.1 UN number

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

no data available

IMDG

14.1 UN number

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

14.6 Special precautions for user

EMS Number: Not applicable

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

Not applicable

14.2 UN proper shipping name

Proper Shipping Name: NOT REGULATED

14.3 Transport hazard class(es)

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not considered environmentally hazardous based on available data

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 16182; MAPP 16208; MAPP 16211; PCS No 04473;

PCS No. 04249

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.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H411	Toxic to aquatic life with long lasting effects.

Risk-phrases in the Composition section

	None Required
R10	Flammable.
R22	Harmful if swallowed.
R36	Irritating to eyes.
R41	Risk of serious damage to eyes.
R43	May cause sensitization by skin contact.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Revision

Identification Number: 1007086 / 3027 / Issue Date 2013/08/06 / Version: .0

DAS Code: GF-1883

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

Dow AgroSciences Limited urges each customer or recipient of this (M)SDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this (M)SDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that his activities comply with all federal, state, provincial or local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturer-specific (M)SDSs, we are not and cannot be responsible for (M)SDSs obtained from any source other than ourselves. If you have obtained an (M)SDS from another source or if you are not sure that the (M)SDS you have is current, please contact us for the most current version.

**THIS PAGE HAS BEEN LEFT
BLANK INTENTIONALLY**

**THIS PAGE HAS BEEN LEFT
BLANK INTENTIONALLY**

SAFETY PRECAUTIONS

Operator protection:

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:
WEAR SUITABLE PROTECTIVE GLOVES when handling the concentrate or contaminated surfaces.
WEAR SUITABLE PROTECTIVE COVERALLS, SUITABLE PROTECTIVE GLOVES AND RUBBER BOOTS when applying by hand-held equipment.
However, engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection. (UK only)
WHEN USING DO NOT EAT, DRINK OR SMOKE.
WASH CONCENTRATE from skin or eyes immediately.

Consumer protection:

DO NOT USE ON FOOD CROPS.

Environmental protection:

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

Storage and disposal:

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.

1 Litre e

This label is compliant with the CPA Voluntary Initiative Guidance (UK only).



 Dow AgroSciences



Product Registration Number: MAPP 16182 / PCS No 04249

A soluble concentrate containing 12 g ae/litre aminopyralid (present as 23.08 g/litre aminopyralid triisopropanolammonium salt) + 120 g ae/litre triclopyr (present as 167.36 g/litre triclopyr triethylammonium).

For the control of a wide range of deep-rooted PERENNIAL, HERBACEOUS WEEDS and WOODY WEEDS on NON-CROP LAND such as motorway and railway embankments, roadsides and industrial areas (but excluding airfields).

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

PROFESSIONAL USE ONLY

READ DIRECTIONS FOR USE ON ATTACHED LEAFLET.

PROTECT FROM FROST.

Triple rinse containers, Puncture and Invert to Dry at Time of Use

Dow AgroSciences Limited

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

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

IMPORTANT INFORMATION

FOR USE ONLY AS AN INDUSTRIAL HERBICIDE.

Crops/Situations:	Amenity grassland
Maximum Individual Dose:	4.0 litres product per hectare
Maximum Total Dose:	4.0 litres product per hectare per year

DO NOT USE on airfields.
DO NOT USE ON LAND that will be grazed by livestock.
DO NOT USE ON LAND within one year of sowing seed.
DO NOT USE ON LAND where the vegetation will be cut for animal feed, fodder or bedding nor for composting or mulching within one calendar year of treatment.
Users must have received adequate instruction, training and guidance in the safe use of the product and must take all reasonable precautions to protect the health of human beings, creatures and plants and safeguard the environment.

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.

MAPP 16182 / PCS No 04249

9 UKE 0713 ICAD E A



HARMFUL



DANGEROUS FOR THE ENVIRONMENT

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Possible risk to the unborn child

Wear suitable protective clothing and gloves
If swallowed, seek medical advice immediately and show this container or label.
Keep out of reach of children
Keep away from food, drink and animal feeding stuffs.
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.