

# MATERIAL SAFETY DATA SHEET

## 1. IDENTIFICATION OF SUBSTANCE, PREPARATION AND COMPANY

**Product name** ADEPT  
**Use** Agricultural Herbicide  
**Formulation** Suspension concentrate and capsule suspension formulation (ZC)  
**Supplier:** Sipcam UK Limited, 4C Archway House, Melbourn Street, Royston SG8 7BX.  
**Emergency No** 01763 212100.

## 2. HAZARDS IDENTIFICATION

Classification of mixture according to Regulation (EC) Number 1272/2008

WARNING



VERY TOXIC TO AQUATIC LIFE WITH LONG LASTING EFFECTS

**Additional information** For the wording of risk and safety phrases refer to section 15.

## 3. COMPOSITION / INFORMATION ON INGREDIENTS

Hazardous ingredients

	CAS/EINECS	R Phrases	%
<b>Pendamethalin</b>	40487-42-1 / 254-938-2	⚠ Skin sens. 1, H317; ⚠ Aquatic 1, H410	28.08%
<b>Diflufenican</b>	83164-33-4 / 616-032-0	Aquatic chronic 3, H412	1.4%
<b>Solvent naptha</b>	64742-94-5 / 265-198-5	⚠ Asp Tox 1, H304	4.5%
<b>Calcium ammonium nitrate</b>	15245-12-2 / 239-289-5	⚠ Eye damage 1 H318, ⚠ Acute tox 4 H302	9.0%

**Additional information** For the wording of the listed risk phrases refer to section 16.

## 4. FIRST AID MEASURES

### General information:

Show this safety data sheet to the doctor. Immediately remove soiled clothing  
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

### After inhalation:

Supply fresh air or oxygen; call for doctor.

In case of unconsciousness bring patient into stable side position for transport.

### After skin contact:

Immediately wash with water and soap and rinse thoroughly.

### After eye contact:

Rinse opened eye for several minutes under running water. Then consult doctor.

### After swallowing:

In case of persistent symptoms consult doctor.

### Information for doctor:

Treat symptomatically.

### Indication of any immediate medical attention and special treatment needed:

Treat symptomatically. No further relevant information available.

## 5. FIRE FIGHTING MEASURES

Suitable extinguishing agents

CO<sub>2</sub>, extinguishing powder or water jet.  
Fight larger fires with water jet or alcohol-resistant foam.

**Special hazards arising from the substance or mixture**

Carbon monoxide, nitrogen oxides, can be released. Avoid breathing smoke & fumes.

**Protective equipment:**

Do not inhale explosion or combustion gases. Put on breathing apparatus & protective clothing.

**6. ACCIDENTAL RELEASE MEASURES**

**Personal precautions, protective equipment and emergency procedures:**

See section 8.

**Environmental precautions:**

Do not allow to enter drainage system, surface or ground water.

Keep dirty washing water for appropriate disposal.

**Methods and material for containment and cleaning up:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose of contaminated material as waste according to item 13.

Collect mechanically..

**Reference to other sections:**

See Section 7 for safe handling, 8 for personal protection equipment, 13 for disposal information

**7. HANDLING AND STORAGE**

**Precautions for safe handling:**

Keep away from heat and direct sunlight. Prevent formation of aerosols.

Ensure good ventilation/exhaustion at the workplace.

Open and handle container with care.

**Information about protection against explosions and fires:**

Keep ignition sources away. Do not smoke.

Flammable mixtures may be formed in empty containers.

**Conditions for safe storage, including any incompatibilities:**

**Storage requirements to be met by storerooms and containers:**

Store in a cool location. Store only in original container.

**Information about storage in one common storage facility:**

Not required.

**Further information about storage conditions:**

Keep container tightly sealed. Protect from frost.

**8. EXPOSURE CONTROL / PERSONAL PROTECTION**

**Components with limit values that require monitoring at the workplace:**

Solvent naphtha (5%)

OEL

Short term value : 100 mg/m<sup>3</sup>

**Personal protective equipment**

The usual precautionary measures should be adhered to general rules for handling chemicals.

Avoid contact with the eyes and skin.

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Do not eat or drink while working.

Avoid contact with eyes and skin.

**Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

**Protection of hands:**

Protective gloves.

**Eye protection:**

Tightly sealed safety glasses

**Body protection:**

Protective work clothing.

**9. PHYSICAL AND CHEMICAL PROPERTIES**

**Appearance:**

**Melting point or range:**

Not determined

**Viscosity:**

1525 cps

**Form:** Liquid suspension

**Boiling point or range:**

Not determined

**Surface tension:**

33.2mN/m @25°C

**Colour:** Yellow

**Flash point:**

Not applicable

<b>Odour:</b> Characteristic	<b>Self-Flammability:</b> Not self igniting	<b>Solubility / Miscibility (water):</b> Dispersable
<b>pH-value at 20°C:</b> 5.0 @ 20°C	<b>Danger of explosion:</b> Product is not explosive.	<b>Density:</b> 1.125 g/cm <sup>3</sup> @ 20°C

#### 10. REACTIVITY AND STABILITY

**Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.

**Possibility of hazardous reactions:** No dangerous reactions known.

**Conditions to avoid:** No further relevant information available.

**Incompatible materials:** No further relevant information available.

**Hazardous decomposition products:** None in standard storage conditions

#### 11. TOXICOLOGICAL INFORMATION

**LD/LC50 values that are relevant for classification:**

Oral LD50 >2,000 mg/kg (rat)

Dermal LD50 >2,000 mg/kg (rat)

**Skin Irritation:** No irritant effect

**Eye Irritation :** No irritant effect.

**Sensitisation:** No Sensitizing effect.

#### 12. ECOLOGICAL INFORMATION

**LD/LC50 values that are relevant for classification:**

**Aquatic toxicity**

EC 50: 38.8 (0-72h) mg/l (algae)

LC 50: >100 (48h) mg/l (*daphnia magna*)

LC 50: >92.5 (96h) mg/l (rainbow trout)

**Persistence and degradability:**

No further relevant information available.

**Assessment biodegradation & elimination (H<sub>2</sub>O):**

Not readily biodegradable (by OECD criteria)

**PBT:** Not applicable      **vPvB:** Not applicable

#### 13. DISPOSAL

**Waste or used preparation:** Use specialist waste contractor in accordance with local regulations.

**Disposal of packaging:** Use specialist waste contractor in accordance with local regulations.

#### 14. TRANSPORT

**UN-Number (ADR, IMDG, IATA)**      3082

**Proper shipping name(ADR/RID, IMDG, ICAO/ IATA)**

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Diflufenican (ISO))

3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Pendimethalin (ISO))

**Hazard class (ADR,IMDG, IATA):**      9, Miscellaneous

**Packing group (ADR, IMDG, IATA):**      III

**Marine pollutant:**      No

**Hazard label:**      none

#### 15. REGULATORY INFORMATION

**Hazard-determining components of labelling:**      PENDAMETHALIN, DIFLUFENICAN, SOLVENT NAPHTHA,

**Precautionary (P) statements:**

P261      Avoid breathing spray

P273      Avoid release to the environment

P280      Wear gloves, protective clothing and eye/face protection

P391      Collect spillage

P501      Dispose of contents/container to a licensed waste disposal contractor or collection site

except for triple rinsed empty containers which can be disposed of as non-hazardous waste

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)

## 16. OTHER INFORMATION

### **R Phrases referenced in section 3:**

- H302 Harmful if swallowed
- H304 May be fatal if swallowed and enters airways.
- H317 May cause an allergic skin reaction.
- H318 Causes serious eye damage
- H410 Very toxic to aquatic life with long lasting effects
- H412 Harmful to aquatic life with long lasting effects

*Prepared by Sipcarn UK Ltd to the best of our current knowledge and information:  
No responsibility is accepted that the information will be sufficient or correct in all cases.  
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