

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Identification of the substance or preparation

SHRAPNEL

320 g/l Phenmedipham CAS 13684-63-4

Use of the substance/preparation

Herbicide

Company/undertaking identification

Feinchemie Schwebda GmbH, Edmund-Rumpler-Str. 6, D-51149 Köln
 Telephone ++49 (0) 2203/5039-000, Fax ++49 (0) 2203/5039-111

E-mail address of the competent person: info@chemical-check.de, k.schnurbusch@chemical-check.de

Emergency telephone

Advisory office in case of poisoning:

Tel.:
 +49 30 / 19240 Berlin

Telephone number of the company in case of emergencies:

Tel. ++49 (0) 2203/5039-000

2. HAZARDS IDENTIFICATION

To people

See point 11 and 15.
 Preparation is classified as hazardous in the sense of directive 1999/45/EC.
 Risk of serious damage to eyes.

To the environment

See point 12.
 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Formulation:
 Suspension concentrate

Chemical name			
content %	Symbol	R-phrases	EINECS, ELINCS
	Registration number (ECHA)		
Phenmedipham			
~ 29	N	50-53	237-199-0
Isotridecyl alcohol ethoxylate			
10 -< 25	Xn/Xi	22-41	

For complete wording of the R-phrases, refer to point 16.

4. FIRST AID MEASURES

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4.1 Inhalation

Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.

4.2 Eye contact

Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.

4.3 Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

4.4 Ingestion

Do not induce vomiting - give copious water to drink. Consult doctor immediately.
Keep Data Sheet available.

4.5 Special resources necessary for first aid

n.c.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media

Adapt to the nature and extent of fire.

5.2 Extinguishing media which shall not be used for safety reasons

n.d.a.

5.3 Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

In case of fire the following can develop:

Oxides of carbon

Vapours hazardous to health

Organic decomposition products

5.4 Special protective equipment for fire-fighters

Protective respirator with independent air supply.

Full protection, if necessary

5.5 Further information

Dispose of contaminated extinction water according to official regulations.

6. ACCIDENTAL RELEASE MEASURES

Refer to point 13. and for personal protection refer to point 8.

6.1 Personal precautions

Ensure sufficient supply of air.

Avoid inhalation, and contact with eyes or skin.

6.2 Environmental precautions

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

If leakage occurs, dam up.

Avoid release to the environment.

6.3 Methods for cleaning up

Collect using absorbant material (e.g. Universal binding medium), and dispose of according to point 13.

7. HANDLING AND STORAGE

7.1 Handling

Tips for safe handling:

See point 6.1

Ensure good ventilation.

General hygiene measures for the handling of chemicals are applicable.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

7.2. Storage

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Requirements for storage rooms and containers:

Observe regulations for keeping separated.
Store product closed and only in original packing.

Special storage conditions:

See point 10
Only store at temperatures from -5°C to 35°C

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Exposure limit values

Chemical Name	Propane-1,2-diol	Content %:
WEL-TWA: 150 ppm (474 mg/m ³) (total, vapour and particulates), 10 mg/m ³ (particulates)	WEL-STEL: ---	---
BMGV: ---	Other information: ---	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.

** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.

8.2 Exposure controls

8.2.1 Occupational exposure controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
Applies only if maximum permissible exposure values are listed here.
General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
If OES or MEL is exceeded.
Respiratory protection:
Filter A (EN 14387)
Hand protection:
Protective Neopren gloves (EN 374).
Protective nitrile gloves (EN 374)
Protective hand cream recommended.
Eye protection:
Tight fitting protective goggles (EN 166) with side protection, with danger of projections.
Skin protection:
Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments)

Additional information on hand protection - No tests have been performed.
Selection made for preparations according to the best available knowledge and information on the ingredients.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of preparations the resistance of glove materials cannot be calculated in advance so it has to be tested before use. The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.2 Environmental exposure controls

n.av.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state:	Liquid
Colour:	Opaque, White
Odour:	Characteristic
pH-value undiluted:	3,44 (MT 75.3)
1 % pH-value:	4,15 (MT 75.3)
Boiling point/boiling range (°C):	Not specified
Melting point/melting range (°C):	Not detected
Flash point (°C):	n.a. (CIPAC MT 12.2, EEC A9)
Flammability (solid, gas):	No
Autoflammability:	485°C (DIN 51794, EEC A15)
Oxidising properties:	No
Minimum limit of explosion:	Not detected
Maximum limit of explosion:	Not detected
Density (g/ml):	1,0977 g/cm ³ (19,5 - 20,5°C) (CIPAC MT 3.3.2, OECD 109)
Water solubility:	Dispersion
Partition coefficient (n-octanol/water):	3,65, Active substance
Vapour density (air = 1):	Not detected
Viscosity:	952 mPas/2,52 s-1, 120 mPas/158,8 s-1 (19,5 - 20,5°C) (OECD 114)
Surface tension:	27,8 mN/m (0,5% v/v), 28,1 mN/m (1,5% v/v) (19,5 - 20,5°C) (EEC A.5)

10. STABILITY AND REACTIVITY

Conditions to avoid

See point 7

Stable when handled and stored correctly.

Protect from frost.

Materials to avoid

See point 7

Avoid contact with other chemicals.

Avoid contact with strong oxidizing agents.

Hazardous decomposition products

See point 5.3

11. TOXICOLOGICAL INFORMATION

Acute toxicity and immediate effects

Ingestion, LD50 rat oral (mg/kg):

> 2000 (OECD 423 method B1 96/54/EC)

Inhalation, LC50 rat inhal.(mg/l/4h):

> 5,04 (OECD 403 method B2 92/69/EC)

No mortalities LC50 > 1129 µg/l (OECD 403)

Skin contact, LD50 rat dermal (mg/kg):

> 4000, Not irritant

Eye contact:

See point 15.

Classification according to calculation procedure.

Delayed and chronic effects

Sensitization:

No (skin contact)

No sensitizing properties in guinea pigs

Carcinogenicity:

n.c.

Mutagenicity:

No

(500,2500,5000 mg PMP/kg b.w. OECD 475/474)

Reproductive toxicity:

NOAEL >= 1000 mg/kg *

Narcosis:

n.c.

Further information

Classification based on toxicological analyses.

The following may occur:

Irritation of the eyes

Allergic reaction possible.

* Phenmedipham

12. ECOLOGICAL INFORMATION

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Water hazard class (Germany):	2
Self classification:	Yes (VwVwS)
Persistence and degradability:	n.av.
Behaviour in sewage plants:	Problems not expected when used correctly.
EC20 1.819 mg/l, EC50 5.115mg/l, EC80 > 10.000mg/l (OECD 209)	
Aquatic toxicity:	
Toxicity to fish:	
LC50 Onchorhynchus mykiss 10,9 mg/l (OECD 203)	
Toxicity to daphnia:	
EC50 Daphnia magna 33 mg/l (OECD 202)	
Toxicity to algae:	
EbC50 Pseudokirchneriella subcapitata 0,44 mg/l (OECD 201)	
Ecological toxicity:	n.av.

13. DISPOSAL CONSIDERATIONS

13.1. for the material / preparation / residue

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product.

Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2001/118/EC, 2001/119/EC, 2001/573/EC)

02 01 08 agrochemical waste containing dangerous substances

20 01 19 pesticides

Recommendation:

Pay attention to local and national official regulations

E.g. suitable incineration plant.

Waste needs special observation measures (according to Waste Types Catalogue).

13.2 for contaminated packing material

See point 13.1

Pay attention to local and national official regulations

Empty container completely.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

14. TRANSPORT INFORMATION

General statements

UN-Number: 3082

Road/Rail-transport (ADR/RID)

Class/packing group: 9/III

UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENMEDIPHAM)

Classification code: M6

LQ: 7

Tunnel restriction code: E

Transport by sea

IMDG-code: 9/III (class/packing group)

EmS: F-A, S-F

Marine Pollutant: Yes

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (PHENMEDIPHAM)

Transport by air

IATA: 9/-/III (class/secondary danger/packing group)

Environmentally hazardous substance, liquid, n.o.s. (PHENMEDIPHAM)

Additional information:

Danger code and packing code on request.



15. REGULATORY INFORMATION

**Classification according to Dangerous Product Regulations incl. EC Directives
 (67/548/EEC and 1999/45/EC)**



Symbols: Xi/N

Indications of danger:

Irritant

Dangerous for the environment

R-phrases:

41 Risk of serious damage to eyes.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S-phrases:

(2) Keep out of the reach of children.

13 Keep away from food, drink and animal feedingstuffs.

20/21 When using do not eat, drink or smoke.

24/25 Avoid contact with skin and eyes.

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

29/35 Do not empty into drains; dispose of this material and its container in a safe way.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

(46) If swallowed, seek medical advice immediately and show this container or label.

57 Use appropriate container to avoid environmental contamination.

Additions:

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

Phenmedipham

Observe restrictions: Yes

Observe youth employment law (German regulation).

Observe restrictive guidelines 76/769/EEC, 1999/51/EC, 1999/77/EC

16. OTHER INFORMATION

These details refer to the product as it is delivered.

Storage class VCI (Germany): 12

Revised points: 14

Observe plant protection medium law.

ID: FSG 04189 H-2

The following phrases represent the prescribed R-phrases / H-phrases (GHS) for the ingredients (designated in point 3).

50 Very toxic to aquatic organisms.

53 May cause long-term adverse effects in the aquatic environment.

22 Harmful if swallowed.

41 Risk of serious damage to eyes.

Legend:

n.a. = not applicable / n.v., k.D.v. = n.av. = not available / n.g. = n.c. = not checked

WEL = Workplace Exposure Limit EH40, TWA = Long-term exposure limit (8-hour TWA (= time weighted average) reference period), STEL = Short-term exposure limit (15-minute reference period) / BMGV = Biological monitoring guidance value EH40

AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany) / BGW = "Biologischer Grenzwert" (biological limit value, Germany)

VbF = Regulations for flammable liquids (Austria)

WGK = water hazard class (Germany) - WGK 3 = very hazardous, WGK 2 = hazardous, WGK 1 = slightly hazardous to water

VOC = Volatile organic compounds / AOX = Adsorbable organic halogen compounds

VwVwS = Administrative Order relating to substances hazardous to water (Germany)

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.

No responsibility.