

TALON SOFT

Version 1 - This version replaces all previous versions.

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SECTION 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**1.1 Product identifier**Product name : **TALON SOFT**

Design code : A20136A

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

Use : Rodenticide

1.3 Details of the supplier of the safety data sheetCompany : Syngenta Crop Protection AG
Postfach
CH-4002 Basel
Switzerland

Telephone : +41 61 323 11 11

Telefax : +41 61 323 12 12

E-mail address : sds.ch@syngenta.com

1.4 Emergency telephone number**Emergency tele-
phone number** : +44 1484 538444**SECTION 2. HAZARDS IDENTIFICATION****2.1 Classification of the substance or mixture**

Classification according to Regulation (EU) 1272/2008

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

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

Not classified according to EU legislation

2.2 Label elements

Labelling: Regulation (EC) No. 1272/2008

Remarks : Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Hazardous components which must be listed on the label:

Labelling: EU Directives 67/548/EEC or 1999/45/EC

The product does not need to be labelled in accordance with EC directives or respective national laws.

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2.3 Other hazards

None known.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration
brodifacoum	56073-10-0 259-980-5	T+, N R26/27/28 R43 R48/24/25 R50/53	Acute Tox.1; H300 Acute Tox.1; H310 Acute Tox.1; H330 Skin Sens.1; H317 STOT RE1; H372 Aquatic Acute1; H400 Aquatic Chronic1; H410	0.005 % W/W

Substances for which there are Community workplace exposure limits.

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

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

SECTION 4. FIRST AID MEASURES

4.1 Description of first aid measures

- General advice : Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a poison control center or physician, or going for treatment.
- Inhalation : Move the victim to fresh air.
If breathing is irregular or stopped, administer artificial respiration.
Keep patient warm and at rest.
Call a physician or poison control centre immediately.
- Skin contact : Take off all contaminated clothing immediately.
Wash off immediately with plenty of water.
If skin irritation persists, call a physician.
Wash contaminated clothing before re-use.
- Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Remove contact lenses.
Immediate medical attention is required.
- Ingestion : If swallowed, seek medical advice immediately and show this container or label.
Do NOT induce vomiting.

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4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Medical advice : There is no specific antidote available.
Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Extinguishing media - small fires
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Extinguishing media - large fires
Alcohol-resistant foam
or
Water spray

Do not use a solid water stream as it may scatter and spread fire.

5.2 Special hazards arising from the substance or mixture

As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10).
Exposure to decomposition products may be a hazard to health.

5.3 Advice for firefighters

Wear full protective clothing and self-contained breathing apparatus.

Do not allow run-off from fire fighting to enter drains or water courses.
Cool closed containers exposed to fire with water spray.

SECTION 6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Prevent further leakage or spillage if safe to do so.
Do not flush into surface water or sanitary sewer system.

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6.3 Methods and materials for containment and cleaning up

Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

If the product contaminates rivers and lakes or drains inform respective authorities.

6.4 Reference to other sections

Refer to protective measures listed in sections 7 and 8.

Refer to disposal considerations listed in section 13.

SECTION 7. HANDLING AND STORAGE

7.1 Precautions for safe handling

No special protective measures against fire required.

Avoid contact with skin and eyes.

When using do not eat, drink or smoke.

For personal protection see section 8.

7.2 Conditions for safe storage, including any incompatibilities

No special storage conditions required.

Keep containers tightly closed in a dry, cool and well-ventilated place.

Keep out of the reach of children.

Keep away from food, drink and animal feedingstuffs.

7.3 Specific end use(s)

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

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components	Exposure limit(s)	Type of exposure limit	Source
brodifacoum	0.002 mg/m ³	8 h TWA	SYNGENTA

The following recommendations for exposure controls/personal protection are intended for the manufacture, formulation and packaging of the product.

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8.2 Exposure controls

- Engineering measures : Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated.
The extent of these protection measures depends on the actual risks in use.
If airborne mists or vapors are generated, use local exhaust ventilation controls.
Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit.
Where necessary, seek additional occupational hygiene advice.
- Protective measures : The use of technical measures should always have priority over the use of personal protective equipment.
When selecting personal protective equipment, seek appropriate professional advice.
Personal protective equipment should be certified to appropriate standards.
- Respiratory protection : No personal respiratory protective equipment normally required.
A particulate filter respirator may be necessary until effective technical measures are installed.
- Hand protection : Chemical resistant gloves are not usually required.
Select gloves based on the physical job requirements.
- Eye protection : Eye protection is not usually required.
Follow any site specific eye protection policies.
- Skin and body protection : No special protective equipment required.
Select skin and body protection based on the physical job requirements.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

- Physical state : liquid
- Form : no data available
- Colour : no data available
- Odour : no data available
- Odour Threshold : no data available
- pH : no data available
- Melting point/range : no data available
- Boiling point/boiling range : no data available
- Flash point : no data available
- Evaporation rate : no data available
- Flammability (solid, gas) : no data available
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- Vapour pressure : no data available
- Relative vapor density : no data available
- Density : 1.1 g/cm³
- Solubility in other solvents : no data available
- Partition coefficient:
n-octanol/water : no data available

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Auto-ignition temperature : no data available
Thermal decomposition : no data available
Viscosity, dynamic : no data available
Viscosity, kinematic : no data available
Explosive properties : no data available
Oxidizing properties : no data available

9.2 Other information

: no data available

SECTION 10. STABILITY AND REACTIVITY**10.1 Reactivity**

No information available.

10.2 Chemical stability

No information available.

10.3 Possibility of hazardous reactions

None known.
Hazardous polymerisation does not occur.

10.4 Conditions to avoid

No information available.

10.5 Incompatible materials

No information available.

10.6 Hazardous decomposition products

Combustion or thermal decomposition will evolve toxic and irritant vapors.

SECTION 11. TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects**

Acute oral toxicity : LD50 rat, > 2,000 mg/kg

Acute inhalation toxicity
brodifacoum : LC50 female rat, 3.05 µg/l , 4 h
LC50 male rat, 4.86 µg/l , 4 h

Acute dermal toxicity : LD50 rat, > 2,000 mg/kg

Skin corrosion/irritation : Non-irritating

Serious eye damage/eye irritation : Non-irritating

Respiratory or skin sensitization : Not a skin sensitizer.

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- Germ cell mutagenicity
brodifacoum : Did not show mutagenic effects in animal experiments.
- Carcinogenicity
brodifacoum : Did not show carcinogenic effects in animal experiments.
- Teratogenicity
brodifacoum : Did not show teratogenic effects in animal experiments.
- Reproductive toxicity
brodifacoum : Did not show reproductive toxicity effects in animal experiments.
- STOT - repeated exposure
brodifacoum : No adverse effect has been observed in chronic toxicity tests.
- Further information
brodifacoum : Excessive exposure slows blood clotting time and can cause bleeding, shock and death.

SECTION 12. ECOLOGICAL INFORMATION**12.1 Toxicity**

- Toxicity to fish
brodifacoum : LC50 *Oncorhynchus mykiss* (rainbow trout), 0.04 mg/l , 96 h
- Toxicity to aquatic invertebrates
brodifacoum : EC50 *Daphnia magna* (Water flea), 0.45 mg/l , 48 h
- Toxicity to aquatic plants
brodifacoum : ErC50 *Selenastrum capricornutum* (green algae), 0.27 mg/l , 72 h

12.2 Persistence and degradability

- Stability in water
brodifacoum : Degradation half life: ca. 300 d
Persistent in water.
- Stability in soil
brodifacoum : Degradation half life: 157 d
Not persistent in soil.

12.3 Bioaccumulative potential

- brodifacoum : Brodifacoum has high potential to bioaccumulate.

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12.4 Mobility in soil

brodifacoum : Brodifacoum has low mobility in soil.

12.5 Results of PBT and vPvB assessment

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

12.6 Other adverse effects

None known.

SECTION 13. DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.
Do not dispose of waste into sewer.
Where possible recycling is preferred to disposal or incineration.
If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging : Empty remaining contents.
Triple rinse containers.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

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SECTION 14. TRANSPORT INFORMATION**Land transport (ADR/RID)**

Not dangerous goods

14.1 UN number:	not applicable
14.2 UN proper shipping name:	not applicable
14.3 Transport hazard class(es):	not applicable
14.4 Packing group:	not applicable
14.5 Environmental hazards	not applicable

Sea transport(IMDG)

Not dangerous goods

14.1 UN number:	not applicable
14.2 UN proper shipping name:	not applicable
14.3 Transport hazard class(es):	not applicable
14.4 Packing group:	not applicable
14.5 Environmental hazards	not applicable

Air transport (IATA-DGR)

Not dangerous goods

14.1 UN number:	not applicable
14.2 UN proper shipping name:	not applicable
14.3 Transport hazard class(es):	not applicable
14.4 Packing group:	not applicable

14.6 Special precautions for user

none

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

not applicable

SECTION 15. REGULATORY INFORMATION**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

GHS-Labeling

Remarks : Not a dangerous substance according to GHS.

Hazardous components which must be listed on the label:

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance.

SECTION 16. OTHER INFORMATION**Further information**

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Full text of R-phrases referred to under sections 2 and 3:

R26/27/28	Very toxic by inhalation, in contact with skin and if swallowed.
R43	May cause sensitization by skin contact.
R48/24/25	Toxic: danger of serious damage to health by prolonged exposure in contact with skin and if swallowed.
R50/53	Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Full text of H-Statements referred to under sections 2 and 3.

H300	Fatal if swallowed.
H310	Fatal in contact with skin.
H317	May cause an allergic skin reaction.
H330	Fatal if inhaled.
H372	Causes damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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