

ZENECA Ag Products Inc

MATERIAL SAFETY DATA SHEET

TALON-G Rodenticide

Version: 2

Date issued: 09/20/00

MSDS No. US001206_01

Date printed: 09/21/00

Section 1 – CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Company : Zeneca Ag Products Inc
1800 Concord Pike
Wilmington DE 19850

Phone number : (302) 886-1000

Emergency phone : Medical: 800-327-8633 (1-800 FASTMED)
Chemtrec: 800-424-9300
Technical:302-886-3000

Name used on label : TALON-G Rodenticide

Product use : An anticoagulant rodenticide

A Registered Trade Mark of Zeneca Agricultural Products

Section 2 – COMPOSITION/INFORMATION ON INGREDIENTS

| Identity CAS-no. | Typical % | Other information |
|-------------------|-----------|-------------------|
| BRODIFACOUM | | |
| 56073-10-0 | 0.005 % | Active Ingredient |
| Cereal grain | 93 % | |
| Other Ingredients | 6.995 % | |

Ingredients not precisely identified are proprietary or non hazardous.
Values are not product specifications.

Section 3 – HAZARDS IDENTIFICATION

Physical hazards:
None

Health hazards:
The active ingredient is designed to cause bleeding after repeated ingestion.

ZENECA Ag Products Inc

MATERIAL SAFETY DATA SHEET

TALON-G Rodenticide

Version: 2

Date issued: 09/20/00

MSDS No. US001206_01

Date printed: 09/21/00

Section 4 – FIRST AID MEASURES

IF IN EYES:

Immediately flush with plenty of water for at least 15 minutes. If redness, itching or a burning sensation develops, have eyes examined and treated by medical personnel.

IF ON SKIN:

Wash material off the skin with plenty of soap and water. If redness, itching or a burning sensation develops, get medical attention.

IF SWALLOWED:

Provided the patient is conscious, wash out mouth with water. Immediately contact Zeneca's Emergency Information Network at 1-800-F-A-S-T-M-E-D (327-8633). Induce vomiting by sticking finger down throat. Repeat until vomitus is clear. Refer victim to medical personnel.

IF INHALED:

Remove victim to fresh air. If cough or other respiratory symptoms develop, consult medical personnel.

MEDICAL ADVICE:

This product may reduce the clotting ability of the blood and cause hemorrhaging. If poisoning occurs, intramuscular and oral administration of vitamin K1 are indicated, as in poisoning from overdose of bishydroxycoumarin. For human cases, vitamin K1 is antidotal at 10-20 mg (not mg/kg). For animals, vitamin K1 is antidotal at 2-5 mg. Repeated doses may need to be given up to two weeks (based on monitoring of prothrombin times). In severe cases, blood transfusions may be necessary.

Section 5 – FIRE FIGHTING MEASURES

Flash point :

Not applicable.

Autoignition temperature :

No data.

Flammable limits (STP): :

Not applicable.

EXTINGUISHING MEDIA:

Water fog, alcohol foam, carbon dioxide, dry chemical, halogenated agents.

PROTECTIVE EQUIPMENT:

Self-contained breathing apparatus with full facepiece and protective clothing.

ZENECA Ag Products Inc

MATERIAL SAFETY DATA SHEET

TALON-G Rodenticide

Version: 2

Date issued: 09/20/00

MSDS No. US001206_01

Date printed: 09/21/00

NFPA RATING

Health

1

Fire

0

Reactivity

0

Unusual fire and explosion hazards:

None known.

Section 6 – ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Steps to be taken in case material is released or spilled:

Sweep up and transfer into original container or waist container.

Section 7 – HANDLING AND STORAGE

REQUIREMENTS FOR STORAGE ROOMS:

Keep container dry and in a cool area. Keep in original containers, tightly closed and locked up.

ADDITIONAL INFORMATION:

Do not store near feed, food, or within the reach of children and animals.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Occupational exposure limits

TLV or suggested control value:

No ACGIH TLV or OSHA PEL assigned. Minimize exposure in accordance with good hygiene practice. Zeneca has established a provisional internal exposure standard of 0.002 mg/m³ for Brodifacoum (active ingredient) as an 8-hour TWA.

ENGINEERING CONTROLS:

During manufacturing: Use local exhaust to keep exposures to a minimum.

EYE PROTECTION:

During manufacturing: Safety glasses with side shields.

BODY PROTECTION:

During manufacturing: Impervious gloves and apron. PVC has been shown to be impervious to brodifacoum. Remove contaminated clothing and wash before re-wearing. Gloves are recommended for handling the finished product.

RESPIRATORY PROTECTION:

During Manufacturing: When handling large quantities of end-use product,

ZENECA Ag Products Inc

MATERIAL SAFETY DATA SHEET

TALON-G Rodenticide

Version: 2

Date issued: 09/20/00

MSDS No. US001206_01

Date printed: 09/21/00

use MSHA-NIOSH approved dust mask/respirator for pesticides.

Other protective equipment:

Eyewash station and safety shower in work area.

Special precautions or other comments:

During manufacturing: Store in a cool dry area away from products with strong odors. Keep in an area suitable for pesticide storage. Prevent accumulation of dust. Prevent skin contact. Promote good personal hygiene.

Section 9 – PHYSICAL AND CHEMICAL PROPERTIES

| | |
|---------------------|--|
| Form | : pellets |
| Physical state | : solid |
| Color | : green |
| Odor | : faint grain-like |
| Boiling point | : 228 .. 230 °C (Brodifacoum) |
| Vapor Pressure | : Negligible at 20 °C Method: mmHg |
| Vapour density | : Not applicable. (air = 1) |
| Bulk density | : 38 .. 42 lb/cu ft |
| Solubility | : insoluble |
| pH-value (quant.) | : |
| (qual.) | : No data |
| Volatile by volume: | : Negligible |

Section 10 – STABILITY AND REACTIVITY

HAZARDOUS REACTIONS (CONDITIONS TO AVOID)

Stability:

Stable under normal conditions.

Incompatibility:

None known.

Hazardous polymerization:

Will not occur.

HAZARDOUS DECOMPOSITION PRODUCTS

Combustion products - Carbon dioxide, carbon monoxide.

ZENECA Ag Products Inc

MATERIAL SAFETY DATA SHEET

TALON-G Rodenticide

Version: 2

Date issued: 09/20/00

MSDS No. US001206_01

Date printed: 09/21/00

Section 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (LETHAL DOSES)

LD50 Ingestion rat

: > 5000 mg/kg

LD50 Skin absorption rat and rabbit

: > 500 mg/kg

Additional inform. : Systemically toxic concentrations of this product will probably not be absorbed through human skin.

Dermal

Additional inform. : No irritation is likely to develop following contact with human skin.

Inhalation

Additional inform. : No toxic effects are known to be associated with inhalation of dust from this material.

ACUTE TOXICITY (IRRITATION, SENSITIZATION ETC.)

Eye contact

Additional inform. : No irritation is likely to develop following contact with human eyes.

GENERAL INFORMATION ABOUT ACUTE OR OTHER TOXICITIES

General information

This description of acute toxicological properties is based on laboratory results and experience with this material.

Other effects of overexposure:

Effects are those of anticoagulant overdosage, i.e., reduced blood clotting ability with spontaneous bleeding in various body organs. Body accumulation is likely to result from repeated exposures to brodifacoum since its half-life is estimated to be 120 days. Individuals with blood clotting disorders may be more susceptible to overexposure effects.

ZENECA Ag Products Inc

MATERIAL SAFETY DATA SHEET

TALON-G Rodenticide

Version: 2

Date issued: 09/20/00

MSDS No. US001206_01

Date printed: 09/21/00

Section 12 – ECOLOGICAL INFORMATION

ADDITIONAL INFORMATION ABOUT ECOLOGY

This material is toxic to fish, birds and wildlife.

Section 13 – DISPOSAL CONSIDERATIONS

Disposal Method:

Untreated effluent should not be discharged where it will drain into lakes, streams, or ponds. Discarded product is not a hazardous waste under RCRA, 40 CFR 261. Do not contaminate waterways by cleaning of equipment or by disposal of wastes.

Container disposal:

Plastic: Puncture or otherwise destroy empty container before disposal.

Section 14 – TRANSPORT INFORMATION

ROAD TRANSPORT DOT

Non-Hazardous

Section 15 – REGULATORY INFORMATION

Other regulations, restrictions and prohibitions

TSCA (Toxic Substances Control Act) Regulations, 40CFR 710:

All ingredients are on the TSCA Chemical Substance Inventory. Registered pesticide.

CERCLA and SARA Regulations (40 CFR 355, 370, and 372):

This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

EPA

EPA Registration no.: 10182-00334; 10182-00335; 10182-00336; 10182-00341

ZENECA Ag Products Inc

MATERIAL SAFETY DATA SHEET

TALON-G Rodenticide

Version: 2

Date issued: 09/20/00

MSDS No. US001206_01

Date printed: 09/21/00

Section 16 – OTHER INFORMATION

We assigned NFPA and HMIS ratings to this product based on the hazards of its ingredient(s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

This information is intended solely for the use of individuals trained in the particular hazard rating system.

ZENECA Ag Products Inc believes that the information and recommendations contained herein (including data and statements) are accurate as of the date thereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY, OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates to the specific product designated and may not be valid where such product is used in combination with any other materials or in any process. Further, since the conditions and methods of use of the product and of the information referred to herein are beyond the control of ZENECA Ag Products Inc, ZENECA Ag Products Inc expressly disclaims any and all liability as to any results obtained or arising from any use of the product or reliance on such information.

A vertical bar (|) in the left margin indicates an amendment from the previous version.