# SAFETY DATA SHEET

Safety data sheet for chemical products according to EC-directive 2001/58/EC Issued: November 20, 1995 - Revised April 6, 2006 Page 5/1

## Muscalure technical

Chemical product and company identification. 1.

Trade name

: Muscalure technical

Formulation and use

: Liquid technical synthesis product to use as an

Attractant in house fly controlling agents.

Supplier

: Brandenburg UK Ltd.

29 Navigation Drive, Hurst Business Park,

Brierley Hill, West Midlands.

DY5 1UT. UK.

Telephone +44 (0)1384 472900 +44 (0)1384 472911

Emergencies

: In case of emergency contact the nearest

toxicological information institute. Physicians only.

#### Composition - information on ingredients

Component	EC no.	CAS no.	Symbols	R-phrases*	Content
					%
(Z)-tricos-9-ene (muscalure)	248-505-7	27519-02-4	Xi	43	85

<sup>\*</sup>R-phrases are explained in § 16 hereof.

Hazard identification 3.

Hazards to human health

May cause sensitization by skin contact.

Safety and environmental hazards:

With expert use hazards to safety and environment are

considered unlikely to occur.

4. First aid measures

Emergencies

In general urgent medical attention will not be

necessary.

Inhalation

Remove subject from exposure area to fresh air

Seek medical advice if feeling unwell.

Eye contact

Flush eyes with water. Get medical attention if in any

Skin contact

Wash affected skin with plenty of water and soap.

Ingestion

Get medical attention if feeling unwell.

Information for physician

Product contains tricosenes. Treatment is

symptomatic and supportive; no specific antidote

known.

Safety data sheet for chemical products according to EC-directive 2001/58/EC Issued: November 20, 1995 - Revised April 6, 2006 Page 5/2

## Muscalure technical

5. Fire fighting measures

> Suited extinguishing media Unsuited extinguishing media Special protective equipment

for fire fighters

Exposure risks

Powder, foam, water spray, CO2.

Water jet.

Self-contained respiratory apparatus and protective

clothing.

Standard fire exposure risks.

6. Accidental release measures

Personal precautions

Environmental precautions

Methods for cleaning up

Wear suitable protective clothing and gloves. According to present knowledge product has no harmful effects to the environment. However, do not allow entry in streams, sewers or natural environment. Spills must be wiped up with absorbent and put into

closed containers for later disposal. Waste disposal

according to local authority regulations.

7. Handling and storage

Classification

Handling precautions

Standard directives in respect of hygiene and health

are to be observed.

Avoid unnecessary contact with the product. Suitable clothing and gloves are recommended. Remove contaminated clothing. Wash hands after use

and before breaks.

Product must be stored in unopened, original Storage

containers, in a dry, cool and dark place, safe from

access by children.

Keep away from food, drink and animal feeding

Shelf life

One year from date of production if correctly stored.

NC, non flammable

Safety data sheet for chemical products according to EC-directive 2001/58/EC Issued: November 20, 1995 – Revised April 6, 2006 Page 5/3

## Muscalure technical

8. Exposure control - personal protection

Statutory limit : MAC value: no data available at present.

Ventilation : Ventilation is recommended.

Respiratory protection : With expert use respiratory protection is not regarded

necessary.

Hand protection : Wear suitable protective gloves.

Eye protection : With expert use safety glasses or goggles are not

regarded necessary.

Skin and body protection : Wear suitable protective clothing.

Others : Do not eat, drink or smoke.

9. Physical and chemical properties

Appearance : clear liquid

Colour : colourless to pale amber

Odour : mild chemical

Molecular mass tricosenes : 322.62

Density : 0.803 kg/L at 25°C (EEC A.3, OECD 109)

Relative vapour density : not determined Vapour pressure : 4.7 mPa at 27°C

Melting point : -4°C (EEC A.1, OECD 102)

Boiling point : 376°C at 0.1 mbar (10 Pa) (EEC A.2, OECD 103)

Flash point : 161,5°C (EEC A.9, ISO 2719)

Auto-ignition : 250°C (EEC A.15) Explosion limits : non-explosive (EEC A.14)

Partition coefficient : P<sub>ow</sub> >1.51 x 10<sup>8</sup> (logP<sub>ow</sub> >8.2) (EEC A.8, OECD 107)

pH : not applicable Oxidizing properties : non-oxidizing

Viscosity : 15 mPa.s at 20°C (OECD 114)

Solubility in water : insoluble

Solubility in others : soluble in hydrocarbons

10. Stability and reactivity

Stability : Stable under normal conditions.
Compatibility : No data available at present.

Hazardous decomposition

products : None presently known.

Hazardous polymerization : Will not occur.

Safety data sheet for chemical products according to EC-directive 2001/58/EC Issued: November 20, 1995 – Revised April 6, 2006 Page 5/4

## Muscalure technical

11. Toxicological information

Toxicological family : Tricosenes.

Acute toxicity to mammals : Toxicological study results of muscalure:

LD(oral, rat)<sub>50</sub>

LD(dermal, rat)<sub>50</sub> > 2 g/kgLC(4h inhalation, rat)<sub>50</sub> > 5.7 g/m3

May cause sensitization by skin contact.

Chronic toxicity : No study results available.

12. Ecological information

Environmental properties : According to present knowledge the product has no

harmful effects to the environment.

Environmental toxicity : Water flea (Daphnia magna): The LC<sub>50</sub> is much

higher than the solubility of the product in water. Rainbow trout (*Salmo gairdneri*): The LC<sub>50</sub> is much higher than the solubility of the product in water. Bobwhite quail (*Colinus virginianus*): No effects were observed 14 days after a single dose of 2000 mg/kg.

> 5 g/kg

(NOEC = 2000 mg/kg)

The acute dietary toxicity expressed as LC<sub>50</sub> observed over a period of 8 days exceeded 5000 mg/kg food.

(NOEC = 5000 mg/kg food)

13. Disposal consideration

Waste from residues : In compliance with local/national authority

regulations for waste disposal.

Contaminated packaging : In compliance with local/national authority

regulations for waste disposal.

14. Transport information

International regulations : Not classified for any mode of transportation.

Description : Not applicable.

Labelling : Land – RID/ADR : not applicable.

Inland waterways – ADNR : not applicable. Sea – IMDG : not applicable.

Air – ICAO-II, IATA-DGR : not applicable.

UN number : Not applicable. UN packing group : Not applicable.

Transport emergency group card: Not applicable.

Safety data sheet for chemical products according to EC-directive 2001/58/EC Issued: November 20, 1995 – Revised April 6, 2006 Page 5/5

# Muscalure technical

#### 15. Regulatory information

Regulations for labelling

Symbol

Hazard indications (R-phrases)

Safety precautions (S-phrases)

Additional information

Xi Irritant

R43 May cause sensitization by skin contact.

S36/37 Wear suitable protective clothing and gloves.

Contains Muscalure (Tricosenes).

#### 16. Other information

Explanation R-phrases § 2 Information sources

R43 May cause sensitization by skin contact.

Denka library.

-N- Class database of the European Chemicals Bureau

The Pesticide Manual (ISBN: 1 901396 11 8).

Alterations in relation to previous edition of 25.04.2004

§ 2: Added Xi-symbol and R43.

§ 3: Added 'May cause sensitization by skin contact'.

§ 6: Added 'Wear suitable protective clothing and gloves.

§ 9: Physical and chemical properties adjusted to latest test results.

§ 11: Added 'May cause sensitization by skin contact'.

§ 15: Added Xi-symbol and R43. Contains Muscalure (Tricosenes)

§ 16: Added 'Explanation R-phrases § 2: R43'.

No liability is accepted for any injury, loss, damage or cost arising directly or indirectly from the use of the product or from the use of information contained within this safety data sheet since the customer's treatment of the product is necessarily beyond our control. The supplied data are based on current knowledge and experience. This safety data sheet is intended to describe our product in terms of safety requirements. The customer should determine by appropriate trials that the product is suitable for his intended use.