

## Evaluation Report for Category L, Subcategory 1.2 Application

**Application Number:** 2021-0516  
**Application:** Application Subject to Protection of Proprietary Interests in Pesticide Data (PIIP) Policy – Equivalency/Data Compensation Assessment  
**Product:** Ztrex 72 Antimicrobial Agent MUP  
**Registration Number:** 35072  
**Active ingredient (a.i.):** 3-(trimethoxysilyl)propyldimethyloctadecyl ammonium chloride  
**PMRA Document Number:** 3521046

### Purpose of Application

The purpose of this application was to register Ztrex 72 Antimicrobial Agent MUP, a new source of the active ingredient 3-(trimethoxysilyl)propyldimethyloctadecyl ammonium chloride, based on a registered precedent product.

### Chemistry Assessment

Common Name: 3-(trimethoxysilyl)propyldimethyloctadecyl ammonium chloride  
 IUPAC\* Chemical Name: *N,N*-dimethyl-*N*-[3-(trimethoxysilyl)propyl]-1-octadecanaminium chloride  
 CAS† Chemical Name: 1-octadecanaminium, *N,N*-dimethyl-*N*-[3-(trimethoxysilyl)propyl]-, chloride (1:1)

\* International Union of Pure and Applied Chemistry

† Chemical Abstracts Service

Ztrex 72 Antimicrobial Agent MUP has the following properties:

Property	Result
Colour and physical state	amber liquid
Nominal concentration	72 %
Odour	Alcohol-like odour
Specific gravity	0.9606
Vapour pressure	not applicable (ionic compound)
pH	5.16 (for a 1 % solution)
Solubility in water	miscible in water

<b>Property</b>	<b>Result</b>
n-Octanol/water partition coefficient	not applicable (miscible in water)

The required chemistry data for Ztrex 72 Antimicrobial Agent MUP have been provided, reviewed, and found to be acceptable.

### **Health Assessments**

Ztrex 72 Antimicrobial Agent MUP is considered to be toxicologically equivalent to the precedent product. Ztrex 72 Antimicrobial Agent MUP is of low acute toxicity via the oral, dermal and inhalation routes. It is corrosive to the eyes, mildly irritating to the skin, and is not a dermal sensitizer.

Occupational and dietary exposure assessments were not required for this application.

### **Environmental and Value Assessments**

Environmental and value assessments were not required for this application.

### **Conclusion**

The Pest Management Regulatory Agency has completed an assessment of the information provided, and has found the information acceptable to support the registration of Ztrex 72 Antimicrobial Agent MUP.

## References

### PMRA

#### Document

#### Number

#### Reference

3197320	2021, Manufacturing Summary, DACO: 2.11 CBI
3197330	2021, Product Chemistry, DACO: 2.14,2.14.1,2.14.2,2.14.3,2.14.6,2.14.7,2.14.8,2.14.9
3197331	2016, Product Chemistry - Ztrex, DACO: 2.14,2.14.1,2.14.2,2.14.3,2.14.6,2.14.7,2.14.8,2.14.9 CBI
3197333	2016, Accelerated Storage Stability and Corrosion Characteristics, DACO: 2.14.14
3348999	2022, Preliminary Analysis of Five Batches of Ztrex 72 MUP for Chemical characterization, DACO: 2.13.3 CBI
3510086	2023, Validation of the Analytical methods for [CBI removed] in Ztrex 72 MUP by [CBI removed], DACO: 2.13.1 CBI
3197335	2016, Acute Oral Toxicity in Rats, DACO: 4.2.1
3197336	2016, Acute Dermal Toxicity in Rats, DACO: 4.2.2
3197337	2016, Acute Inhalation Ztrex 72, DACO: 4.2.3
3197338	2016, Acute Eye Irritation in Rabbits- Ztrex 72, DACO: 4.2.4
3197339	2016, Acute Dermal Irritation in Rabbits- ZTREX, DACO: 4.2.5
3197340	2016, Skin Sensitization in Guinea Pigs, DACO: 4.2.6
3448975	2016, Positive Control Study Dermal Sensitization, DACO: 4.2.6

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