

Evaluation Report for Category B, Subcategory 2.1, 2.3, 2.4

Application Number: 2016-3203
Application: New EP Product Chemistry-Guarantee, New EP Product Chemistry-Identity of Formulants, New EP Product Chemistry-Proportion of Formulants
Product: TCCA Carbonate Cuivre
Registration Number: 32972
Active ingredients (a.i.): Available chlorine (present as trichloro-s-triazinetrione), copper sulfate pentahydrate
PMRA Document Number : 2738098

Purpose of Application

The purpose of this application was to register a product, TCCA Carbonate Cuivre, containing chlorine, present trichloro-s-triazinetrione and copper sulfate pentahydrate, to be used as a sanitizer and algicide maintenance product in domestic swimming pools.

Chemistry Assessment

TCCA Carbonate Cuivre is formulated as tablets containing available chlorine, present as trichloro-s-triazinetrione and copper, present as copper sulfate pentahydrate at nominal concentrations of 45% and 0.38%, respectively. This end-use product has a density of 1.3 g/mL and pH of 5.5 - 7.0. The required chemistry data for TCCA Carbonate Cuivre have been provided, reviewed and found to be acceptable.

Health Assessments

This end-use product is expected to be moderately acutely toxic via the oral and inhalation route, but of low acute dermal toxicity. It is expected to be corrosive to the eyes and severely irritating to the skin. TCCA Carbonate Cuivre is not expected to be a potential dermal sensitizer.

The use of TCCA Carbonate Cuivre in swimming pools is not expected to result in potential homeowner or bather exposure greater than that of the registered uses of available chlorine, present as trichloro-s-triazinetrione and copper, present as copper sulfate pentahydrate. No risks of concern are expected when homeowners follow label directions and wear personal protective equipment as stated on the label.

Environmental Assessment

An environmental assessment was not required for this application.

Value Assessment

Value information was provided to support the use of TCCA Carbonate Cuivre, which function as a routine chlorine sanitizer and an algaecide maintenance product in domestic swimming pools. The product has value provided that the free available chlorine is maintained between 1 and 3 ppm and copper levels are within the range of 0.2-1.0 ppm in the water.

Conclusion

The Pest Management Regulatory Agency has completed an assessment of the information provided and has found the information sufficient to support the registration of the end-use product, TCCA Carbonate Cuivre.

References

Studies/Information Provided by Applicant/Registrant

| PMRA Document Number | Reference |
|-----------------------------|---------------------------------------------------------------|
| 2652988 | 2016, acute studies, DACO: 4.6 |
| 2652990 | 2016, value summary, DACO: 10.1 |
| 2652991 | 2016, non-safety adverse effects, DACO: 10.3.2 |
| 2652962 | 2016, applicants name and office address, DACO: 3.1.1 CBI |
| 2652963 | 2016, formulating plants name and address, DACO: 3.1.2 CBI |
| 2652964 | 2016, trade name, DACO: 3.1.3 CBI |
| 2652965 | 2016, description of starting materials, DACO: 3.2.1 CBI |
| 2652966 | 2016, description of the formulation process, DACO: 3.2.2 CBI |
| 2652968 | 2016, discussion of theformation impurities, DACO: 3.2.3 CBI |
| 2652970 | 2016, establishing certified limits, DACO: 3.3.1 CBI |
| 2652971 | 2016, enforcement analytical method, DACO: 3.4.1 CBI |
| 2652972 | 2016, colour, DACO: 3.5.1 CBI |
| 2652973 | 2016, physical state, DACO: 3.5.2 CBI |
| 2652974 | 2016, odour, DACO: 3.5.3 CBI |
| 2652975 | 2016, formulation type, DACO: 3.5.4 CBI |
| 2652976 | 2016, container material and description, DACO: 3.5.5 CBI |
| 2652977 | 2016, density or specific gravity, DACO: 3.5.6 CBI |
| 2652978 | 2016, pH, DACO: 3.5.7 CBI |
| 2652979 | 2016, oxidizing or reducing actin, DACO: 3.5.8 CBI |
| 2652980 | 2016, viscosity, DACO: 3.5.9 CBI |
| 2652981 | 2016, storage stability data, DACO: 3.5.10 CBI |
| 2652982 | 2016, flammability, DACO: 3.5.11 CBI |
| 2652983 | 2016, explodability, DACO: 3.5.12 CBI |
| 2652984 | 2016, miscibiliy, DACO: 3.5.13 CBI |
| 2652985 | 2016, corrosion characteristics, DACO: 3.5.14 CBI |
| 2652986 | 2016, dielectric breakdown voltage, DACO: 3.5.15 CBI |
| 2735674 | 2017, Density, DACO: 3.5.6 CBI |
| 2735675 | 2017, pH, DACO: 3.5.7 CBI |

2735676 2017, reaction oxydante, DACO: 3.5.8 CBI
2735677 2017, explosion, DACO: 3.5.12 CBI
2735678 2017, corrosion, DACO: 3.5.14 CBI
2735679 2017, dosage cuivre, DACO: 3.4.1 CBI
2735680 2017, Stability data, DACO: 3.5.10 CBI
2735681 2017, Stability data Cuivre, DACO: 3.5.10 CBI
2735682 2017, Stability data rationale, DACO: 3.5.10 CBI
2791654 2017, CODO 3.2.1, DACO: 3.2.1 CBI

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