

SCIENCE INTEGRITY KNOWLEDGE



TOXICOLOGY RISK ASSESSMENT

Grignard Pure

US TRA & CAN TRA

May 06, 2020

Prepared For:

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1.0 Product Information

Description: Grignard Pure
Intended age: 14 years and older
Physical form: Liquid
Net weight or volume: 9.0 lbs/ 1 gal/ 3.78 L

2.0 Introduction

TRA (US): The product, *Grignard Pure*, was evaluated for its potential to be toxic (acute/chronic), corrosive, a skin/eye irritant, or strong sensitizer as defined in 16 CFR 1500.3(b)(5), (7)-(9) (Federal Hazardous Substances Act regulations). Chronic toxicity was evaluated in accordance with the guidelines specified by the Consumer Product Safety Commission in 16 CFR 1500.135.

In addition, the ingredients in the product were reviewed to determine whether the substances are included in the list of banned hazardous substances cited in 16 CFR 1500.17.

TRA (CAN): The product, *Grignard Pure*, was evaluated for its potential to be very toxic, toxic or harmful (acute), corrosive, or an irritant based on requirements set forth in the Consumer Chemicals and Containers Regulations, 2001 (SOR/2001-269; as amended). Chronic toxicity was evaluated based on information provided in the Canada Consumer Product Safety Act (S.C. 2010, c. 21).

3.0 Disclaimer

This evaluation was conducted based solely on the product formulation and the information provided by the client between April 28th and 30th, 2020. It was assumed that all product formulation details are accurate and that there are no additional ingredients that are not listed. Chemical testing was not conducted as part of this product evaluation and chemical analyses data were not provided in support of this evaluation. It was also assumed that any ingredients provided in the product formulation do not contain any impurities and/or contaminants (*e.g.*, heavy metal(s) or lead) or infectious agents that would cause toxicity in a consumer who may be exposed to them. This product was not evaluated for toxicological considerations related to physical or chemical properties of the formulation (*e.g.*, pH, viscosity, volatility) and potential for physical injury (*e.g.*, choking hazard, aspiration risk, or mechanical irritation) was not considered.

This evaluation is relevant solely to the conditions described herein. Any substitution of ingredients, increase in ingredient concentrations, or change in use pattern will necessitate a new evaluation.

4.0 Exposure Considerations

The product, *Grignard Pure*, is an airborne virucide used with water-based haze and fog machines. The product is intended to be used undiluted to reduce the levels of bacteria and viruses in the air or on hard surfaces. The product is intended to be used by trained personal 14 years of age or older. Consideration was given to consumer exposure with intended product use and under circumstances involving reasonable foreseeable misuse. Intentional product misuse was not considered within the scope of the assessment. This evaluation was conducted under the assumption that potential acute exposure to product ingredients is through the dermal route and possibly the oral route through accidental ingestion. Chronic exposure is only considered to occur *via* the dermal route given that chronic accidental ingestion is unlikely. Any volatile and/or airborne compounds within the product were evaluated for the inhalation route of exposure (acute and chronic).

5.0 Conclusions

TRA (US)

Based on available data, *Grignard Pure* MEETS the requirements for classification as not toxic (acute/chronic), corrosive, a skin/eye irritant, or a strong sensitizer as defined in 16 CFR 1500.3, when used as intended or under circumstances involving reasonable foreseeable misuse.

In addition, the ingredients in the product are not included in the list of banned hazardous substances cited in 16 CFR 1500.17.

TRA (CAN)

Based on available data, *Grignard Pure* MEETS the requirements for classification as not very toxic, toxic or harmful (acute), corrosive, or an irritant based on requirements set forth in the Consumer Chemicals and Containers Regulations, 2001 (SOR/2001-269; as amended), when used as intended or under circumstances involving reasonable foreseeable misuse. Additionally, *Grignard Pure* MEETS the requirements for classification as not toxic (chronic), based on information provided in the Canada Consumer Product Safety Act (S.C. 2010, c. 21).

Additional Notes

- It should be noted that the label provided for this product makes virucide/pesticide claims. As such, this product is likely subject to separate Acts/Regulations (e.g., Pesticide/Disinfectant Regulations). This evaluation does not constitute a regulatory review for the separate Acts/Regulations that may apply, and it is the responsibility of the vendor to ensure compliance with those regulations.

6.0 Approval



(Signature)

Certified Toxicologist

(Title)

Charles Lambert, Ph.D., DABT, ERT

(Name, printed)

May 06, 2020

(Date)