

Information Toxicology International Inc.

**INFO. TOX. INTERNATIONAL, Inc.** 

8710 Victoria Avenue, Riverside, CA 92504

web: www.InfoTox.com email: drgulzar@InfoTox.com

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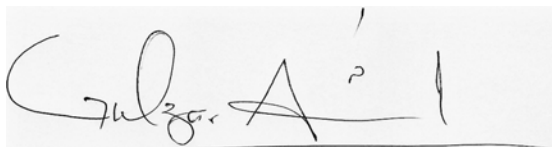
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## **TOXICOLOGICAL RISK ASSESSMENT (TRA)**

*Consumer Product Safety Commission (CPSC) regulation in 16 CFR 1500*

**Client:** Gaia Enterprises, Inc  
P.O. Box 220  
Southampton, PA 18966  
*Attn: Mr. Steve Greenwald*



**Toxicologist:** Dr. Gulzar Ahmad, Ph.D. DABT. CIH. ERT. CHMM. CSAC.  
Diplomate American Board of Toxicology  
Diplomate American Board of Industrial Hygiene  
Certified Hazardous Materials Manager  
EUROTOX Registered Toxicologist  
Certified Safety Assessor for Cosmetics, Per EU Directive  
Past/present memberships ASTM, CTFA, ICMAD, NAMTA, CHA,  
NSSEA.



**Director:** Dr. Dildar Ahmad, M.D., ERT.

**Product:** Ice/Snow melter (167 oz per consumer package)

**Intended use:** For melting ice and snow by spreading about 8 oz of the Ice/Snow melter per 100 square feet of the ground. For adult use only.

### **Introduction:**

The client has provided the formulation of the "Ice/Snow melter" referenced above, and has requested InfoTox International, Inc. (InfoTox) to conduct the Toxicological Risk Assessment (TRA) to determine if the product complies with the "Consumer Product

Safety Commission's (CPSC) regulation in FHS 16 CFR 1500", and is reasonably safe when used as intended.

The following Toxicological Risk Assessment (TRA) is based on the general principal of toxicology which takes into account, the available toxicological literature, expected exposure to users, the total amount of the "Ice/Snow melter" per consumer package, the composition of the "Ice/Snow melter", and the intended and foreseeable conditions of use. The final conclusion is made on the basis of *Consumer Product Safety Commission's Regulation in 16 CFR 1500.3* by using professional judgment.

While conducting this assessment, InfoTox utilized its best professional capabilities and resources available to it at the time of this assessment. Therefore, if the client wishes to use this opinion, InfoTox, any of its employees and/or owners including the **Board Certified Toxicologist**, will not be held liable for any injury and/or damage resulting from the use of this product, due to misinformation.

This TRA is recommended to be updated **every three years** or upon any change in the formulation or upon knowledge of additional toxicological information. Moreover, in the event of any additional guidance and/or recommendation from the CPSC, the client will have to comply with that guidance in all respects.



Ice/Snow melter (167 oz per consumer package)

### **Exposures Assessment**

While assessing possible exposures to chemicals of concern, routes usually considered include, inhalation, eye contact, dermal contact, and ingestion. Considering the intended use of "Ice/Snow melter" the users are expected to be exposed through skin contact, eye contact (hand-to-eye activity), Inhalation (dust and/or particulates generated during spreading), and ingestion (hand-to-mouth-activity). However, under foreseeable conditions of use, exposure through ingestion is expected to be below the level of significance.

### **Regulatory Assessment**

None of the ingredients used in the formulations are found to be restricted or banned by the CPSC for use in products like Ice/Snow melter.

### **Toxicological Assessment**

The overall LD50 (oral, rat) of the "Ice/Snow melter" is estimated to be >5,000 mg/kg body weight. As such, the product can be considered as "Practically Non-toxic" through ingestion (Hodge and Sterner Scale).

#### **Skin Irritation**

The toxicological review has indicated that some of the ingredients used in the formulations are skin irritants and repeated and prolonged contact may cause irritation to the skin.

#### **Eye Irritation**

The toxicological review has indicated that some of the ingredients used in the formulations are eye irritants and direct contact with eyes can cause irritation to the eyes.

#### **Respiratory Tract Irritation**

The toxicological review has indicated that some of the ingredients used in the formulations are respiratory tract irritants. However, exposure through inhalation is expected to be minimal to cause irritation of any significance.

#### **Corrosion**

The toxicological review has indicated none of the ingredients used in the formulation is corrosive in nature.

Sensitization

The toxicological review has indicated that none of the ingredients used in the formulation are sensitizer (strong) in nature. Therefore, allergic reaction is not expected among general consumer population.

**Summary of the TRA**

The exposure to the “Ice/Snow melter” may cause the following toxicological effects among the general consumer population, when the product is used as intended;

Toxicity (Acute, Oral) per 16 CFR 1500.3(c)(2)(i)(A): -----	Not Expected
Irritation (Eye) per 16 CFR 1500.3(c)(4)-----	Expected
Irritation (Skin) per 16 CFR 1500.3(c)(4)-----	Mild Expected
Strong Sensitization per 16 CFR 1500.3(c)(5)-----	Not Expected
Corrosion per 16CFR 1500.3 (b)(7)-----	Not Expected

**CONCLUSION OF THE TOXICOLOGICAL RISK ASSESSMENT (TRA)**

The quantity of the “Ice/Snow melter” per consumer package (167 oz) is not anticipated to cause acute toxicity of any significance among the general consumer population, when used as intended, and can be considered as “Reasonably Safe” for its intended use. However, the following precautions must be adopted;

Avoid generating dust. Wash hands after use. Avoid contact with eyes and skin. Keep away from children. In case of eye contact, wash eyes immediately with plenty of water and get medical attention. For adult use only.

Gaia Enterprises, Inc *is authorized to use the seal on the product package..*



**End of the Report**

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