Safety Data Sheet

1. Identification of the substance/preparation and of the company/undertaking

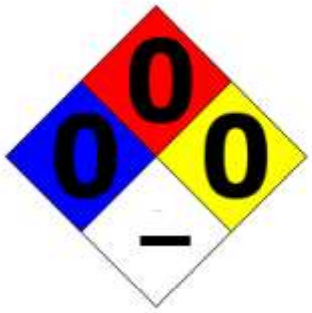
Trade name: IMMUNOWALL
Generic name: Yeast Cell Wall (from *Saccharomyces cerevisiae*)
Use: Feedingstuff
Recommended Use: Animal feed additive based on micro-organisms
Restrictions Use: For animal use only. Follow label directions
Manufacturer: ICC Indl. Com. Exp. e Imp. Ltda
Address: Av. Brig. Faria Lima, 1768 – CJ 4C – Jd. Paulistano – São Paulo – SP
INFORMATION: + 55 11 3093-0799 **Fax:** + 55 11 3816-7661
EMERGENCY: +55 11 99368-5411 (**This is a 24-hour number).**

2. Hazards identification

This material is not considered hazardous

Target organs: None known

This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200) and GHS, if used properly.





3. Composition/information on ingredients

Composition: 100% yeast cell wall (*Saccharomyces cerevisiae*)
Apperance and odor: Beige fine powder without lumps. Odor typical.

4. First aid measures

Eye Contact: Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used.
Skin Contact: After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing.
Serious Skin Contact: Not available.
Inhalation: Allow the victim to rest in a well-ventilated area. Seek immediate medical attention.
Serious Inhalation: Not available.
Ingestion: Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. Seek immediate medical attention.
Serious Ingestion: Not available.

5. Fire-fighting measures

Flammability of the Product: May be combustible at high temperature.
Auto-Ignition Temperature: Not available.
Flash Points: Not available.
Flammable Limits: Not available.
Products of Combustion: Not available.
Fire Hazards in Presence of Various Substances: Not available.
Explosion Hazards in Presence of Various Substances: Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.
Fire Fighting Media and Instructions: SMALL FIRE: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
Special Remarks on Fire Hazards: Material in powder form, capable of creating a dust explosion.
Special Remarks on Explosion Hazards: Not available.

6. Accidental release measures

Steps to be taken: In case of material release or spilled, minimize that formation of dust during clean up. Vacuum powdered spill or moisten with water before removal. Collect waste in suitable container and wash surfaces with water. Avoid high pressure rinsing.
Waste disposal method: No special disposal method required, expect that it be in accordance with current local, state and federal regulations.

7. Handling and storage

Handling: Avoid creating dust and exposure to high temperature or humidity.
Storage: Keep in a dry place, away form moisture, at room temperature.

8. Exposure controls/personal protection



Engineering Controls: Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit.

Eye Protection: Wear goggles or safety glasses when eye contact may occur**.**

Skin Protection: Skin protection and/or proper hygiene, including washing hands after contact, are recommended.

Respiratory Protection:: If airborne levels are high or product does not remain intact, use a combination of engineering controls (e.g. ventilation) and personal protection, approved respirator for dusts, mists, and fumes (Type F100 or Type P3).

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots and gloves.

9. Physical and chemical provperties

Appearence and odor: Beige fine powder without lumps.
Boiling point: Not applicable.
Freeze point: Not applicable.
Solubility in water: Readily soluble in water.
Vapor/pressure density: Not established.
Evaporation rate: Not applicable.
Viscosity: Not established.
Specific gravity: Not applicable.
Explosion energy: 300-1000MJ
Minimum explosion temperature: 420ºC

10. Stability and reactivity

Stability: Stable.
Incompatibility: None know.
Hazardous decomposition products: None know.
Hazardous polymerization: Will not occur under normal conditions.

11. Toxicológical information

Carcinogenicity: Not listed as a carcinogen or potential carcinogen.
Yeast: LD50 [oral, rat]; N/A; LC50 [rat]; N/A; LD50 Dermal [rabbit]; N/A
Material has not been found to be a carcinogen nor produce genetic, reproductive, or developmental effects.
Eye irritation: Not known as a significant source of irritation.
Skin irritation: Not known as a significant source of irritation.
Skin sensitization: Not known as a significant source of irritation.
Mutagenicity: Not known to result in mutagenicity.
Chronic effects on humans: Product is not listed as a carcinogen or have potential carcinogenic effects. Repeated or prolonged exposure is not known to aggravate medical condition.
Special remarks on toxic effects on humans: This product is not expected to cause any skin irritation upon direct single or repeated and prolonged contact. Exposure to the eyes may cause mild (minimal) eye irritation due to the particulate nature of the products. Inhalation of the products may cause respiratory irritation with coughing and shortness of breath due to the particulate nature of the products. Excessive inhalation of the products may cause coughing, choking and gagging at the time of aspiration. Ingestion of the products is relatively non-toxic unless aspiration occurs or an excessive amount of product is consumed. Ingestion of a large single dose or numerous small doses may cause gastrointestinal tract discomfort, abdominal cramps, vomiting, constipation or diarrhea.

12. Ecological information

Ecotoxicity: The active ingredient is a component of naturally-occurring yeast micro-organisms and has no known adverse ecological effects.
Mobility: Not available.
Persistence and degradability: Not available.
Bioaccumulation potential: Not available.

13. Disposal considerations

No known adverse ecological effects. Must be disposed of in accordance with federal, state and local regulations. Do not dump into sewers, on the ground or into any body of water.

14. Transport information

Not classified as dangerous in the meaning of transport regulations.
DOT Classification: Not a DOT controlled material (United States)
Land transport: Not regulated
Sea transport: Not regulated
Air transport: Not regulated

15. Regulatory information

It is not a toxic or dangerous product, so there are no specific regulations.

16. Other information

Not considered a hazardous product.
The information contained herein, as of the issue date, is believed to be true and correct. However, the accuracy or completeness of this information and any recommendations or suggestions are made without warranty. Since the conditions of use are beyond the control of ICC, it is the responsibility of the user to determine the conditions of the use.

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