

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-010

ISSUE DATE: 10/29/98

PAGE 1 OF 5

1. PRODUCT IDENTIFICATION

Product Name

CLEAR BALANCE™

Emergency Phone:

1-609-683-5900 (U.S.A.)

Medical Emergency Phone:

1-800-228-5635

Ext. 007 (U.S.A.)

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Chemical Ingredients</u>	<u>(% by Wt.)</u>	<u>CAS Number</u>
<u>Non-hazardous:</u>		
Sodium Bicarbonate	85-95%	144-55-8
<u>Hazardous:</u>		
Sodium Carbonate	5-15%	497-19-8

Contains no other hazardous ingredients greater than 1% (0.1% for carcinogens) as listed or defined in 29 CFR 1910.

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW	
White crystalline powder; no odor.	
May cause mild, transient eye irritation	
Not a fire hazard	
No significant health or environmental effects associated with this material.	
<u>HMIS Rating</u>	
Health	1
Fire	0
Reactivity	0

Potential Health Effects

EYE: Potential for mild eye irritation.

SKIN CONTACT: Not a primary skin irritant. Some irritation may occur under conditions of repeated, prolonged or occluded contact.

INGESTION: Material is practically non-toxic. Small amounts (1-2 tablespoonfuls) swallowed during normal handling operations are not likely to cause injury as long as the stomach is not overly full; swallowing larger amounts may cause injury (see Note in Section IV).

INHALATION: May aggravate existing respiratory conditions and cause drying of mucous membranes.

SUBCHRONIC EFFECTS/CARCINOGENICITY: Only known subchronic effect is that of a marked systemic alkalosis. The material is not listed as a carcinogen or potential carcinogen by IARC, NTP, OSHA, or ACGIH.

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-010

ISSUE DATE: 10/29/98

PAGE 2 OF 5

4. FIRST AID MEASURES

EYES: Check for and remove contacts if present. Flush eyes with clean flowing water, low pressure and luke warm (not hot) if possible, occasionally lifting eyelids. Seek medical attention if irritation persists.

INGESTION: If large amounts of this material are swallowed, do not induce vomiting. Administer water if person is conscious. Never give anything by mouth to an unconscious person.

SKIN: Wash exposed areas thoroughly with soap and a large amount of water.

INHALATION: Move to an area free from risk of further exposure. Treat symptomatically and supportively. Seek medical attention if irritation persists.

NOTE TO PHYSICIAN: Large doses may produce systemic alkalosis and expansion in extracellular fluid volume with edema.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

FLASHPOINT: Not combustible

METHOD USED: Not applicable

FLAMMABLE LIMITS

LFL: Not applicable

UFL: Not applicable

EXTINGUISHING MEDIA: Non-combustible material. Use extinguishing media appropriate for surrounding fire.

FIRE-FIGHTING INSTRUCTIONS: Carbon Dioxide may be generated making necessary the use of a self-contained breathing apparatus (SCBA) and full protective equipment (Bunker Gear). Carbon dioxide is an asphyxiant at levels over 5% w/w. Sodium oxide, another thermal decomposition product, is a respiratory, eye, and skin irritant. Avoid inhalation, eye and skin contact with sodium oxide dusts.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None known.

6. ACCIDENTAL RELEASE MEASURES

Scoop up into dry, clean containers for disposal. Wear appropriate personal protective equipment (See Section 8). Wash away uncontaminated residue with water.

7. HANDLING AND STORAGE

Store in a cool, dry area away from incompatible substances (see Section 10).

Sodium Bicarbonate reacts with acids to yield carbon dioxide gas which can accumulate in confined spaces. Do not enter confined spaces until they have been well ventilated and carbon dioxide and oxygen levels have been determined to be safe.

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-010

ISSUE DATE: 10/29/98

PAGE 3 OF 5

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMIT: None established. Recommend ACGIH limit of 10 mg/m³ for Particulates Not Otherwise Classified (PNOC).

RESPIRATORY PROTECTION: Dust mask required if total dust level exceeds 10 mg/m³.

PROTECTIVE GLOVES: Not normally required. General purpose (cotton or canvas) gloves recommended for repeated or prolonged handling dry product. Impervious gloves when working with solutions.

EYE PROTECTION: Use safety glasses or goggles when handling bulk material or when dusts are generated.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT: Clean cover clothing is sufficient. Apron where splashing may occur when working with solutions.

PROTECTIVE WORK/HYGIENIC PRACTICES: No special requirements with respect to chemical exposure beyond those provided above. Requirements with respect to specific equipment and applications are the responsibility of the user.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: White crystalline powder or table form.

ODOR: None.

PHYSICAL STATE: Solid, granular or tablet

pH AS IS: Not Applicable

pH (1% SOLN. w/v): 8.0 - 9.0

VAPOR PRESSURE: Not applicable.

VAPOR DENSITY: Not applicable.

BOILING POINT: Not applicable.

FREEZING/MELTING POINT: Not applicable.

SOLUBILITY IN WATER: 8.6 g/100 ml @ 20°C.

BULK DENSITY (g/cc): 62 lb/Ft³

% VOLATILE: Not applicable.

VOLATILE ORGANIC COMPOUNDS: Not applicable.

MOLECULAR WEIGHT: Mixture

10. STABILITY AND REACTIVITY

CHEMICAL STABILITY: Stable.

CONDITIONS TO AVOID: Temperatures above 65°C (150°F).

INCOMPATIBILITY WITH OTHER MATERIALS: Reacts with acids to yield carbon dioxide. Also may yield free caustic in presence of lime dust (CaO) and moisture (i.e., water, perspiration).

HAZARDOUS DECOMPOSITION PRODUCTS: Heating above 100°C may cause dangerous levels of carbon dioxide gas to be present in confined spaces. Yields sodium oxide if exposed to temperatures above 850°C.

HAZARDOUS POLYMERIZATION: Not applicable.

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-010

ISSUE DATE: 10/29/98

PAGE 4 OF 5

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS: May irritate eyes. Any effects would be expected to be transient and full reversible.

SKIN EFFECTS: May cause varying degrees of irritation under conditions of repeated, prolonged or occluded contact. Would not be toxic dermally, a primary skin irritant, or contact sensitizer based on the available information on the ingredients.

ACUTE ORAL EFFECTS: Practically non-toxic. LD₅₀ expected to be > 5.0 g/kg based on available information on the ingredients.

ACUTE INHALATION: May affect existing respiratory conditions and cause mucosal irritation. LC₅₀ expected to be > 5.0 mg/l based on available information on the ingredients.

12. DISPOSAL CONSIDERATIONS

Bury in a secured landfill in accordance with all local, state and federal environmental regulations. Empty containers may be incinerated or discarded as general trash.

13. TRANSPORTATION INFORMATION

D.O.T. SHIPPING NAME: Not regulated

TECHNICAL SHIPPING NAME: Clear Balance™

D.O.T. HAZARD CLASS: None

U.N./N.A. NUMBER: None

HAZARDOUS SUBSTANCE/RQ: None

D.O.T. LABEL: None

D.O.T. PLACARD: None

14. REGULATORY INFORMATION

CLEAN AIR ACT SECTION 611: Material neither contains nor is it manufactured with ozone depleting substances (ODS).

FEDERAL WATER POLLUTION CONTROL ACT (40 CFR 401.15): Material contains no intentionally added or detectable (contaminant) levels of EPA priority toxic pollutants.

CERCLA REPORTABLE QUANTITY: None

RCRA: Not a hazardous material or a hazardous waste by listing or characteristic.

SARA TITLE III:

Section 302, Extremely Hazardous Substances: None

Section 311/312, Hazardous Categories: Immediate (acute)

Section 313, Toxic Chemicals: None

15. MISCELLANEOUS INFORMATION

The ingredients in this product are reported in the EPA TSCA Inventory List.

The ingredients in this product are listed on the Canadian DSL.

The ingredients in this product are not listed as carcinogens or potential carcinogens by

MATERIAL SAFETY DATA SHEET

MSDS NUMBER: MSDS-010

ISSUE DATE: 10/29/98

PAGE 5 OF 5

NTP Annual Report, IARC Group I or II, OSHA 29 CFR 1910 Subpart Z, or ACGIH Appendix A.

Material is neither a volatile organic compound nor does it contain VOCs.

SUPERSEDES DATE: 05/26/98

REASON FOR REVISION: Change name to Clear Balance™

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