

Material Safety Data Sheet

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SECTION I - IDENTIFICATION

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|------------------------------------|--|
| Trade Name: | Real Clear® Buffer |
| Name and/or Family or Description: | Sodium Bicarbonate |
| Chemical Formula: | NAHCO ₃ |
| CAS No.: | 144-55-8 |
| DOT Proper Shipping Name: | Chemicals Not Otherwise Indexed (NOI), Non-Hazardous |
| DOT Hazard Class: | Not Regulated |
| DOT Label: | None |

SECTION II - COMPONENTS (Hazardous & Other)

| | |
|--|-----------------------------|
| <i>Hazardous ingredients:</i> | <i>EXPOSURE LIMITS, PPM</i> |
| <i>OSHA ACGIH OTHER</i> | |
| <u>Components CAS No. Wt% PEL TLV LIMIT HAZARD</u> | |
| <i>Sodium Bicarbonate [144-55-8] 99% None None None Irritant</i> | |

SECTION III - PHYSICAL DATA

| | |
|---------------------|-------------------------------------|
| State: | Powdered dry |
| Appearance: | White powder or granules |
| Odor: | None |
| Boiling Point: | Non-Applicable |
| Melting Point: | Decomposes |
| Vapor Density: | (Air = 1) - Not Applicable |
| Vapor Pressure: | NIL |
| Evaporation Rate: | (Butl Acetate = 1) Not Applicable |
| Volatile: | N/A |
| pH: | N/A |
| Water Solubility %: | 9.0% WT. |
| Storage Conditions: | Store tightly closed in cool place. |

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

| | |
|----------------------------------|-----------------|
| Flash Point: | N/A |
| Ignition Temperature: | N/A |
| Flammable Limits: | N/A |
| Special Fire Fighting Procedure: | Non-Combustible |
| Extinguishing Media: | Non-Combustible |
| Unusual Fire Explosion Hazards: | None |

SECTION V - HEALTH HAZARD DATA

Primary Routes Of Exposure: Inhalation, skin or eye contact.

SIGNS AND SYMPTOMS OF EXPOSURE:

Inhalation: Breathing dust may irritate the nose and throat and cause coughing and chest discomfort. Excessive contact can cause damage to the nasal septum.

Eye Contact: Dust will irritate the eyes and prolonged contact will damage the eyes.

Skin Contact: Prolonged or repeated contact with the dust may irritate the skin with blistering and redness. Solutions may cause severe irritation or burns.

Swallowed: Swallowing large quantities may cause nausea, vomiting, abdominal pain, diarrhea and collapse.

Chronic Effects Of Exposure: May cause sensitization

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE: NONE REPORTED

SECTION VI - EMERGENCY AND FIRST AID PROCEDURES

If Inhaled: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention.

In Case Of Eye Contact: Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower eyelids occasionally. Get immediate medical attention.

In Case Of Skin Contact: Immediately wash skin with lots of soap and water. Remove contaminated clothing and shoes; wash before reuse. Get medical attention if irritation persists after washing.

IF SWALLOWED: Do not induce vomiting. If conscious, give lots of water or milk. Get immediate medical attention. Do not give anything by mouth to an unconscious or convulsing person.

NOTES TO PHYSICIAN: NONE.

SECTION VII - REACTIVITY DATA

STABILITY: Stable

POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Excessive heat and contamination of any kind

MATERIALS TO AVOID: Oxidizing agents attack the organic components of these products. As with other organic carbonaceous compounds, these reactions result in heat which is contained in a confined space can cause fires. Hypochlorites, chlorinated isocyanurates, and perborates are examples of oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: No uniquely hazardous decomposition products are expected. If the organic portion of product is burned, as with any nitrogen containing organic material, oxides or nitrogen, carbon dioxide, and water can be produced. Partial combustion may produce, in addition to the above, soot and various oxides of carbon.

SECTION VIII - SPILL, LEAK, AND DISPOSAL INFORMATION

WASTE DISPOSAL: Dispose of in a sanitary chemical landfill which complies with all local, state, and federal regulations.

SPILL OR LEAKAGE PROCEDURES: Wear suitable clothing and protective equipment which includes rubber boots, gloves and apron and a self contained breathing apparatus.. Sweep up bulk material without releasing dust and reuse wherever possible; where contaminated or unusable, dispose of by land filling.

SECTION IX - SAFE HANDLING AND USE INFORMATION

Permissible Concentrations: Not established

Respiratory Protection: Wear suitable NIOSH-approved dust masks or respiratory protector where local ventilation exhaust is not available or dusty situations are likely to result.

Ventilation: Provide ventilation to keep exposure below Nuisance Dust Limits. Local exhaust ventilation preferred.

OTHER PROTECTIVE EQUIPMENT: Eye wash facility

Storage and Handling: Maintain good housekeeping, avoid creating aerosol. Keep out of direct sunlight and in cool

dry place as deterioration of product and loss of activity may occur under above conditions.

Eye Protection: ANSI approved safety glasses with side protection. It is generally recognized that contact lenses should not be worn when working with chemicals because contact lenses may contribute to the severity of an eye injury.

Skin Protection: Long sleeved shirt, trousers, safety shoes, and gloves.

Hygienic Practices: Wash hands after handling, as well as any other affected skin areas. Avoid contact with food

or food preparatory surfaces. If this occurs wash the area thoroughly with suitable detergent and water. Remove and wash contaminated clothing.

SECTION X - HAZARDOUS ACTIVITY

STABILITY: Stable

POLYMERIZATION: Will not occur

CONDITIONS TO AVOID: Excessive heat and contamination of any kind

MATERIALS TO AVOID: acids, oxides of phosphorous, zinc, lithium, fluorine, calcium hydroxide, aluminum and 2, 4, 6-trinitrotoluene. contact with acids will release carbon dioxide gas. when mixed with lime dust and water corrosive caustic soda may be produced.

HAZARDOUS DECOMPOSITION PRODUCTS: May liberate carbon monoxide or carbon dioxide and oxides of sodium.

SECTION XI - TOXICITY DATA

ORAL: Minor Irritant

DERMAL: Minor Irritant

INHALATION: No Data Found

CARCINOGENITY: This material is not considered to be a carcinogen by The National Toxicology Program, The International Agency For Research And Cancer, Or The Occupational Safety And Health Administration.

SECTION XII - ECOLOGICAL INFORMATION

None found

SECTION XIII - WARNING STATEMENTS

Caution! Keep out of reach of children. May cause eye or skin irritation. Store in a cool dry place. Avoid contact with skin and clothing and excessive inhalation. Wash hands, clothing and equipment after use.

SECTION XV - SPECIAL PRECAUTIONS

Precautions To Be Taken In Handling And Storing: Maintain good housekeeping, avoid creating aerosols. For maintenance of product quality, store in dry cool (under 110°F) warehouse conditions.

KEEP OUT OF REACH OF CHILDREN

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