

Crystal Clear SapHGaurd – pH Buffer

MSDS Information

SECTION I – IDENTIFICATION

Trade Name: **CrystalClear® Buffer**
Name and/or Family or Description: Sodium Bicarbonate
(No IUC Name for the mixture is known to exist)
Chemical Formula: NAHCO3
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 OR OTHER)

EXPOSURE LIMITS, PPM
OSHA ACGIH OTHER
Components CAS No. Wt% PEL TLV LIMIT HAZARD
Sodium Bicarbonate [144-55-8] 99% None None None Irritant

SECTION III - PHYSICAL DATA

Boiling Point: Non-Applicable
Melting Point: Decomposes
Specific Gravity: (Water = 1) 2.20
Vapor Pressure: NIL
Vapor Density: (Air = 1) - Not Applicable
Evaporation Rate: (Butl Acetate = 1) Not Applicable
Volatile: Not Applicable
Appearance & Odor: White odorless powder or granules
pH: Not Applicable
Water Solubility %: 9.0% WT.
Storage Conditions: Store tightly closed in cool place

SECTION IV - FIRST AID MEASURES

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 V - FIRE AND EXPLOSION HAZARD DATA

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

SECTION VI - 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 VII - HAZARDOUS ACTIVITY

Stability: Stable
Polymerization: Will not occur
Conditions To Avoid: Excessive heat and contamination of any kind

Material 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 VIII - TOXICITY DATA

Oral: Minor Irritant
Dermal: Minor Irritant
Inhalation: No Data Found

Carcinogenicity: 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 IX - ECOLOGICAL INFORMATION

No Data Found

SECTION X - 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 XI 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 of nitrogen, carbon dioxide, and water can be produced. Partial combustion may produce, in addition to the above, soot and various oxides of carbon.

SECTION XII - 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 landfilling.

SECTION XIII - 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.

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.

Other Protective Equipment: Eye wash facility.

SECTION XIV- 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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