

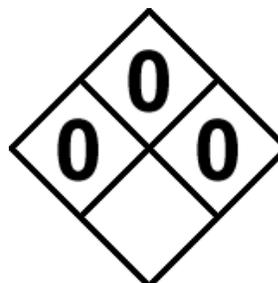


HASA ALKALINITY UP

Material Safety Data Sheet

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HASA ALKALINITY UP
Material Safety Data Sheet MSDS No. 209

INGREDIENTS

CAS #:	144-55-8
COMPONENT:	SODIUM BICARBONATE
CANADIAN PRODUCT IDENTIFICATION NUMBER:	2611

PHYSICAL DATA

Melting/Freezing Point:	Decomposes	Odor:	Odorless
Coeff. Water/Oil Dist.:	Not Available.	Vapor Pressure:	Nil
Evaporation Rate (Butyl Acetate = 1):	Not Applicable.	Ph (As Is):	Not Applicable.
Vapor Density (Air=1):	Not Applicable.	Ph (1% Solution):	8.1
% Volatiles By Volume:	Nil	Odor Threshold:	Not Applicable.
Solubility In Water % By Wt.:	9.6% (2 Cc)	Density (Gms/MI):	0.88 Average
Specific Gravity (Water=1):	2.20	Boiling Point:	Not Applicable.
Room Temperature Appearance And State:	White Granular Solid		

FIRE, EXPLOSION AND REACTIVITY DATA

Flash Point:	Noncombustible
Autoignition Temperature:	Not Applicable.
Flammable Limits:	Not Applicable.
Extinguishing Media:	All
Special Firefighting Procedures:	None

FIRE, EXPLOSION AND REACTIVITY DATA	
Degree Of Fire And Explosion Hazard:	None
Stability:	Stable
Hazardous Polymerization:	Will Not Occur.
Conditions To Avoid:	Contact With Acids Except Under Controlled Conditions. Carbon Dioxide Gas Can Form In Confined Spaces Or Tanks When Alkaline Products Contact Acid Products.
Major Contaminants That Contribute To Instability And Incompatibility:	None
Incompatibility:	Reacts With Acids To Release Carbon Dioxide Gas And Heat.
Hazardous Decomposition Products:	None
Sensitivity To Mech. Impact:	None
Sensitivity To Static Discharge:	None

ROUTES OF EXPOSURE	
Eye Contact:	Mild Irritation (Rabbit)
Skin Contact:	Mild Irritation (Human)
Skin Absorption:	No Data Available.
Inhalation:	No Data Available.
Ingestion:	Practically Non-Toxic.

EXPOSURE LIMITS	
OSHA:	Not Established.
ACGIH:	Not Established.
Other:	Not applicable.

EFFECTS OF OVEREXPOSURE	
Acute Exposure:	Sodium Bicarbonate is a GRAS (Generally recognized as Safe) food ingredient. No significant toxicity is expected. Maybe irritating to the skin and eyes.
Chronic Exposure:	Administration of large doses of Sodium Bicarbonate to patients with renal insufficiency can produce Systemic Alkalosis.

EMERGENCY AND FIRST AID PROCEDURES	
Eyes:	Flush with water for at least 15 minutes. If irritation persists obtain medical attention.
Skin:	Wash with soap and water for 15 minutes. If irritation occurs and persists obtain medical attention.
Inhalation:	Remove from exposure. If discomfort occurs and persists, obtain medical attention.
Ingestion:	Drink water to dilute. Obtain medical advice by phone.
Decontamination Procedure:	Wash with soap and water.
Notes to Physician:	Internal Toxicity is low. Treatment follows standard protocols and is otherwise symptomatic and supportive.

SPECIAL PROTECTION	
Ventilation Requirements:	Use general room dilution or local exhaust ventilation when excessive dust is expected in the work environment.
Recommended Personal Protective equipment:	
Respiratory:	Wear MSHA -NIOSH approved Dust Respirator if excessive visible dust levels are expected.
Eyes:	Chemical Goggles
Glove:	General purpose
Special Clothing and Equipment:	Full cover clothing
Footwear:	None

STORAGE AND HANDLING
<p>Store in cool, dry areas and away from other chemicals that may contaminate product. Minimize the free fall when handling to minimize the dust generated.</p> <p>Wear eye protection and MSHA/NIOSH approved dust respirator to prevent irritation where excessive dust may be expected. Carbon dioxide gas can form in confined spaces if Sodium Bicarbonate contacts acids. Do not enter confined spaces until they have been well ventilated and Carbon Dioxide and Oxygen levels have been determined to be safe. Continue to monitor atmosphere for Oxygen deficiency.</p>

DISPOSAL, SPILL OR LEAK PROCEDURES	
Procedure for release or Spill:	Sweep up as much as possible for Salvage or Disposal. Wash away residue with water.
Waste Disposal method:	If material cannot be salvaged, the preferred method of disposal is in a secured landfill in accordance with all local, state and federal environmental regulations. Empty containers may be incinerated or discarded as general trash.

TRANSPORTATION DATA	
DOT Proper Shipping Name:	Sodium Bicarbonate
DOT Classification:	Non Hazardous
DOT Labels:	Not Applicable.
DOT Marking:	Not Applicable.
DOT Placard:	Not Applicable.
UN Number:	Not Applicable.
Hazardous Substance:	Not Applicable.
4° STCC Number:	Not Applicable.
Emergency Accident Precautions and Procedure:	None
Precautions to be taken in Transportation:	None
Type packages:	Railroad Hopper Cars, Hopper Trucks, Bags
Other Shipping IDs:	Not Applicable.

ADDITIONAL REGULATORY INFORMATION	
Material is reported in SPA TSCA Inventory List:	Yes
Material is listed as a Carcinogen/Potential Carcinogen in following:	
NTP Annual Report:	No
IARC Group I or II:	No
OSHA 29CFR:	No

ACGIH Appendix A:	No
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ADDITIONAL INFORMATION

CALIFORNIA "PROPOSITION 65":
No chemicals listed by California are present at a level that poses a significant risk of causing cancer or reproductive toxicity. Concentration of listed chemicals are:

ARSENIC, PPM AS AS203=0.01
TOTAL CHROMIUM, PPM CR=0.03
LEAD, PPM P8=<1

All other listed chemicals are not detected or not suspected to be present.

Does Product contain a toxic chemical(s) subject to SARA TITLE III SECTION 313 REPORTING CHEMICAL (S):	No
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SARA TITLE III SECTION 311/312 CLASSIFICATION:	Acute Health Hazard (Irritant)
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