



WATER SPECIALIST SUPPLY CO.,LTD.

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MATERIAL SAFETY DATA SHEET

SODIUM BICARBONATE

PRODUCT: SODIUM BICARBONATE

SECTION 01: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

WATER SPECIALIST SUPPLY CO.,LTD.

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PREPARED BY..... Water Specialist Supply CO.,LTD
PREPARATION DATE..... 19/August/16
PRODUCT NAME.....SODIUM BICARBONATE.
CHEMICAL FORMULA.....NaHCO₃.
MOLECULAR WEIGHT.....84.0066 g mol⁻¹.
CHEMICAL FAMILY..... Chemical Compound Alkaline Salt .
EMERGENCY PHONE NO..... (+66)34-440-851 to 3 or (+66)95-367-5790

SECTION 02 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Composition:	Guaranteed	CAS No.	EINECS/ELINCS
Sodium Bicarbonate (NaHCO ₃)	>99.0%	144-55-8	205-633-8

SECTION 03: HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Appearance : White Color.

Warning! Avoid to breath dust and contact with eyes, skin and clothing.

Target Organs: Skin, eyes, Lung and throat

Potential Health Effects

Eye : Causes eye irritation.

Skin : Causes skin irritation.

Inhalation : May causes respiratory tract irritation.

SECTION 04 : FIRST AID MEASURES

INSTRUCTIONS:

Eye contact:

Immediately flush eyes with plenty of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Get medical attention immediately.

Skin Contact

Rinse area with large amounts of water for at least 15 minutes

Inhalation:

Get medical aid immediately. Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen.

DO NOT use mouth-to-mouth resuscitation. If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask

Note to Physician : If breathing has ceased apply artificial respiration using oxygen and a suitable mechanical device such as a bag and a mask.

SECTION 05 : FIRE FIGHTING MEASURES

General Information :

As in any fire, wear a self-contained breathing apparatus in pressure-remand, full protective gear.

Extinguishing :

Substance is noncombustible; use agent most appropriate to extinguish surrounding fire.

Flash point : Not available

Autoignition Temperature : Not available

Explosion Limits, Lower : Not available

SECTION 06 : ACCIDENTAL RELEASE MEASURES

General Information :

Use proper personal protective equipment as indicated in Section 8

Spills/Leaks :

Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoiding generating dust conditions. Provide ventilation.

SECTION 07 : HANDLING AND STORAGE

Handling :

Wash thoroughly after handling. Use with adequate ventilation. Minimise dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid breathing dust.

Storage :

Store in a cool, dry, well-ventilated area away from incompatible substances. Keep containers tightly closed.

SECTION 08 : EXPOSE CONTROL/PERSONAL PROTECTION

Engineering Controls :

Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower, Use adequate general or local exhaust ventilation to keep airborne concentrations below the permissible exposure limits.

Personal Protective Equipment :

Eyes: Wear appropriate protective eyeglasses or chemical safety goggles.

Skin : Wear impervious gloves .

Clothing : Wear appropriate protective clothing to prevent skin exposure.

Respiratory: Use a respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

SECTION 09 :PHYSICAL AND CHEMICAL PROPERTIES

Physical state :	White Fine Power.
Odour :	Odourless.
Solubility :	7.8g/100ml @100°C.
Specific Gravity :	2.13 g/cm ³
Vapor Pressure (mm Hg) :	Negligible .
Vapor density (AIR=1) :	Not available.
Evaporation Rate(BuAc=1) :	Negligible.
Boiling Point :	Not available.
Melting point(C) :	270°C.
PH :	8.6 Max.
Autoignition Temperature :	Not applicable
% Volatiles by the volume@21C(70F):	0
Flash Point :	Not applicable
Decomposition Temperature :	Not available
Viscosity :	Not applicable
Apparent Density :	0.8~1.3kg/dm ³
Molecular Formula :	NaHCO ₃
Molecular Weight :	84

SECTION 10:STABILITY AND REACTIVITY

Stability:

Stable at room temperature in closed containers under normal storage and handling conditions .

Hazardous Decomposition Product : Has not been reported.

Hazardous Polymerization : Has not been reported.

Incompatibilities with Other Materials :

Acid,monoammonium phosphate and sodium-potassium alloy.

Conditions to Avoid : Wetness,excess heat.

SECTION 11 : TOXICOLOGICAL INFORMATION

LD50/LC50 :

CAS#144-55-8: Not belong to Class 6.1 (Toxic substance)
ORAL-RAT LD50: 4220 mg/kg

Carcinogenicity :

CAS#144-55-8: Not listed by ACGIH, IARC, NTP , or CA Prop 65.

SECTION 12 : ECOLOGICAL CONSIDERATION

Environmental Fate :

Marine animals concentrate the element 7~100 times, and marine plants 1000 times from seawater ... Soybeans and tomatoes also accumulate soil barium 2-20 times. Adsorption of barium was measured in a sandy soil and a sandy loam soil at concentrate levels closely corresponding to those to be expected for field conditions. In general, Sludge solutions appeared to increase the mobility of elements in the soil. This is due to a combination of complexation by dissolved organic compound, high background concentrate and high ionic strengths of the soil solution.

SECTION 13 : DISPOSAL CONSIDERATION

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guideline for the classification determination are listed in 40 CFR Parts 261.3 . Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

SECTION 14 : TRANSPORT INFORMATION

	US DOT	Canada TDG
Shipping Name :	Sodium bicarbonate	Sodium bicarbonate
Hazard Class :	No	No

SECTION 15 :REGULATORY INFORMATION

Section 9

here melting point is the temperature of Losing CO₂ gas.

Section 14 :

This material is general product, doesn't have hazard class.

SECTION 16 :OTHER INFORMATION

Disclaimer :

Water Specialist Supply(WSS THAILAND) CO.,Ltd provide information contained here in good faith but make no representation as to its comprehensiveness or accuracy.This document is intended only as a guide to the appropriate precautionary handing of the material by a properly trained person using this product.Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.