Rocky Mountain Reagents, Inc. ™
Scientific Solutions Since 1951 ™

MSDS

Material Safety Data Sheet

1. PRODUCT and COMPANY IDENTIFICATION

Product: pH 4.0 Buffer (Red)
Product Code(s): D82-3151, D82-3151-SI
Synonyms: Mixture
Manufacturer: Rocky Mountain Reagents, Inc.
4621 Technology Drive, Golden, CO 80403
Ph: (303)762-0800 Fax: (303)762-1240

IN CASE OF EMERGENCY
24 HOUR CONTACT TELEPHONE
CHEM-TEL: (800)255-3924
All non-emergency questions may be directed to customer service (303)762-0800 or info@rmreagents.com

2. COMPOSITION and INFORMATION on INGREDIENTS

Ingredients	CAS#	Chemical Formula	Formula Weight	Hazardous	% by Weight
Sodium Chloride	7647-14-5	NaCl	58.44	No	0.7
Potassium Biphthalate	877-24-7	$C_8H_5KO_4$	204.22	No	0.48
Sodium Nitrate	7631-99-4	$NaNO_3$	84.99	Yes	0.085
Sodium Azide	26628-22-8	NaN_3	65.01	Yes	0.1
Amaranth	915-67-3	$C_{20}H_{11}N_2O_{10}S_3Na_3$	604.48	No	<0.1
Nitric Acid	7697-37-2	HNO_3	63.01	Yes	<0.1
Water	7732-18-5	H_2O	18.015	No	>98

3. HAZARDS IDENTIFICATION

Emergency Overview:
CAUTION! MAY CAUSE IRRITATION TO SKIN, EYES, RESPIRATORY TRACT, AND/OR GASTROINTESTINAL TRACT. MAY BE HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN. Contains 0.1% Sodium Azide. Sodium Azide may react with Lead and Copper plumbing to form explosive metal azides. If disposing into sink, rinse with copious amounts of water to prevent azide build up.

SAFETY RATINGS: Health: 1, Slight Reactivity: 0, None
Flammability: 0, None Contact: 1, Slight
Protective Equipment: Safety Glasses, Lab Coat or Apron, Gloves
Storage Code: Green: General

Potential Health Effects:
INHALATION:
May be harmful.
INGESTION:
May be harmful.
SKIN CONTACT:
May cause irritation.
EYE CONTACT:
May cause irritation.
POTENTIAL CHRONIC HEALTH EFFECTS:
This product is not expected to produce any chronic health effects.
MEDICAL CONDITIONS GENERALLY AGGRAVATED by EXPOSURE:
Repeated or prolonged exposure may cause irritation to eyes and skin.

4. FIRST AID MEASURES

INHALATION:
Remove to fresh air. If breathing is difficult, administer oxygen. If not breathing, perform mouth-to-mouth resuscitation. If irritation persists, get medical attention.
INGESTION:
Give several glasses of water to drink. Never give anything by mouth to an unconscious person. Get medical attention.
SKIN CONTACT:
Wash with mild soap and water. If irritation develops, get medical attention.

EYE CONTACT:
Check for and remove contact lenses. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. If irritation develops, get medical attention.

5. FIRE FIGHTING MEASURES

NFPA RATINGS: Health: 1 Flammability: 0 Reactivity: 0
FIRE:
Not considered to be a fire hazard.
EXPLOSION:
Not considered to be an explosion hazard.
FIRE EXTINGUISHING MEDIA:
Use any means suitable for extinguishing surrounding fire.
SPECIAL INFORMATION:
In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full face piece operated in the pressure demand or other positive pressure mode.

6. ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment as specified in the Exposure Control and Personal Protection Section 8. Use non sparking tools and equipment. Pick up and place in a suitable container for reclamation or disposal.

7. HANDLING and STORAGE

Store in a cool, dry, ventilated area, away from flame, sources of ignition and heat. Keep containers tightly closed and upright. Protect from physical damage. Keep out of direct sunlight and separate from incompatible materials. Containers of this material may be hazardous when empty since they retain product residues (vapor, liquids); observe all warnings and precautions listed for the product. Storage and use areas should be non-smoking. Wash thoroughly after handling.

8. EXPOSURE CONTROL and PERSONAL PROTECTION

EXPOSURE LIMITS:
No information found.
VENTILATION SYSTEM:
In general, dilution ventilation is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
PERSONAL RESPIRATORS (NIOSH) APPROVED:
Not expected to require use of a personal respirator.
SKIN PROTECTION:
Wear protective clothing, gloves, lab coat or apron, as appropriate, to prevent skin contact.
EYE PROTECTION:
Use chemical safety glasses or goggles. Maintain approved eye wash station in work area.

9. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE:	Clear Pink-Red Liquid
ODOR:	Slight
SOLUBILITY:	Miscible with water
SPECIFIC GRAVITY:	No information found
pH:	No information found
% VOLATILES by VOLUME:	No information found
BOILING POINT:	No information found
MELTING POINT:	No information found
VAPOR DENSITY (Air =1):	No information found
VAPOR PRESSURE (mm Hg):	No information found
EVAPORATION RATE (BuAc=1):	No information found

10. STABILITY and REACTIVITY

STABILITY:
Stable under ordinary conditions of use and storage.
HAZARDOUS DECOMPOSITION PRODUCTS:
No information found.
HAZARDOUS POLYMERIZATION:
Will not occur.
INCOMPATIBILITIES:
No information found.

CONDITIONS to AVOID:
Heat, flames, ignition sources and incompatibles.

11. TOXICOLOGICAL INFORMATION

TOXICOLOGICAL DATA:
No information found.

12. ECOLOGICAL INFORMATION

ENVIROMENTAL FATE:
No information found.
ENVIROMENTAL TOXICITY:
No information found.

13. DISPOSAL INFORMATION

Whatever cannot be saved for recovery or recycling should be handled as potentially hazardous waste and disposed of or incinerated at an approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

DOT (Land):
Not Regulated
IATA (Air):
Not Regulated
IMDG (Sea):
Not Regulated

15. REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS:
This product contains the following chemicals which are considered “Hazardous Chemicals" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200: Sodium Azide, Sodium Nitrate, Nitric Acid

This product contains the following chemicals which are on the U.S. EPA TSCA Inventory List: Sodium Azide, Sodium Nitrate, Potassium Biphthalate, Nitric Acid

US EPCRA (SARA Title III) Sections 311/312:

Hazard Categories	
Section 311 – Hazardous Chemical:	No
Immediate Hazard:	No
Delayed Hazard:	No
Fire Hazard:	No
Pressure Hazard:	No
Reactivity Hazard :	No

US EPCRA (SARA Title III) Section 302 – Extremely Hazardous Substances:

Sodium Azide (26628-22-8):	500 lb TPQ
Nitric Acid (7697-37-2):	1000 lb TPQ

US EPCRA (SARA Title III) Section 313 – Toxic Chemicals:
Sodium Azide (26628-22-8)
Nitric Acid (7697-37-2)

CERCLA (Superfund) Reportable Quantity:

Sodium Azide (26628-22-8):	1000 lbs
Nitric Acid (7697-37-2):	1000 lbs

INVENTORY STATUS:

Country(s) or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
New Zealand	New Zealand Inventory	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
US & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)

16. OTHER INFORMATION

PRODUCT USE:
For manufacturing, industrial and laboratory use only, not for household use.

DISCLAIMER:
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