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MATERIAL SAFETY DATA SHEET

N-BROMOSUCCINIMIDE

SECTION 1- CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MSDS Name:
N-BROMOSUCCINIMIDE

Catalog Numbers:
No information available.

Synonyms:
2,5-Pyrrolidinedione, 1-bromo-; NBS; Succinibromimide; N-Bromosuccinimide 99%

Company Information:
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SECTION 2- COMPOSITION, INFORMATION ON INGREDIENTS

CAS #	:	128-08-5
Chemical Name	:	N-Bromosuccinimide
%	:	99 - 100%
EINECS#	:	Unlisted
Hazard Symbols	:	Unlisted
Risk Phrases	:	Unlisted

SECTION 3- HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW
WARNING! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Potential Health Effects

Skin Contact:
Causes irritation to skin. Symptoms include redness, itching, and pain. May be absorbed through the skin.

Eye Contact:
Causes irritation, redness, and pain.



Ingestion:

Causes irritation to the gastrointestinal tract. Symptoms may include nausea, vomiting and diarrhea. May cause mild burning of mouth, throat, and stomach.

Inhalation:

Inhalation of vapors or mists irritates the mucous membranes and upper respiratory tract. Symptoms may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea, and vomiting.

Chronic:

No information available.

SECTION 4 - FIRST AID MEASURES

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person.

Skin Contact:

Immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Get medical attention. Wash clothing before reuse. Thoroughly clean shoes before reuse.

Eye Contact:

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

SECTION 5 - FIRE FIGHTING MEASURES

Fire:

Not considered to be a fire hazard.

Explosion:

Not considered to be an explosion hazard.

Fire Extinguishing Media:

Carbon dioxide or dry chemical. Do not use water or foam.

Special Information:

In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

SECTION 6 -ACCIDENTAL RELEASE MEASURES

Ventilate area of leak or spill. Wear appropriate personal protective equipment as specified in Section 8. Spills: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

SECTION 7 - HANDLING AND STORAGE

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

Airborne Exposure Limits:
None established.

Ventilation System:

A system of local and/or general exhaust is recommended to keep employee exposures as low as possible. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, *Industrial Ventilation, A Manual of Recommended Practices*, most recent edition, for details.

Personal Respirators (NIOSH Approved):

For conditions of use where exposure to dust or mist is apparent and engineering controls are not feasible, a particulate respirator (NIOSH type N95 or better filters) may be worn. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) are present, use a NIOSH type R or P filter. For emergencies or instances where the exposure levels are not known, use a full-face positive-pressure, air-supplied respirator. **WARNING:** Air-purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear impervious protective clothing, including boots, gloves, lab coat, apron or coveralls, as appropriate, to prevent skin contact.

Eye Protection:

Use chemical safety goggles and/or full face shield where dusting or splashing of solutions is possible. Maintain eye wash fountain and quick-drench facilities in work area.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	White crystals.
Odor	:	Faint odor of bromine.
Solubility	:	1.47 gm / 100 gm water.
Density	:	2.098
pH	:	No information available.
% Volatiles by volume @ 21C (70F)	:	No information available.
Boiling Point	:	No information available.
Melting Point	:	173 - 175C (343 - 347F)
Vapor Density (Air=1)	:	6.1
Vapor Pressure (mm Hg)	:	No information available.
Evaporation Rate (BuAc=1)	:	No information available.
Molecular Weight	:	177.99
Chemical Formula	:	C4H4BrNO2
NFPA Ratings	:	Health: 2 Flammability: 0 Reactivity: 0

SECTION 10 - STABILITY AND REACTIVITY

Stability:

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products:

Oxides of nitrogen, oxides of carbon, hydrogen bromide.

Hazardous Polymerization:

Will not occur.

Incompatibilities:

Strong oxidizers, strong acids, strong bases, iron and iron salts. May decompose or exposure to light, moist air, or water. CAUTION; Many reactions involving N-Bromosuccinimide are extremely exothermic. It reacts violently and/or explosively with aniline, diallylsulfide, hydrazine, propionitrile, and dibenzol peroxide + 4-toluic acid.

Conditions to Avoid:

Heat, flame, ignition sources, incompatibles, light, moisture and air.

SECTION 11 - TOXICOLOGICAL INFORMATION

RTECS#:

No information available.

LD50/LC50:

No information available.

Carcinogenicity:

No information available.

SECTION 12 - ECOLOGICAL INFORMATION

No information available.

SECTION 13 - DISPOSAL CONSIDERATIONS

Whatever cannot be saved for recovery or recycling should be managed in an appropriate and approved waste facility. Although not a listed RCRA hazardous waste, this material may exhibit one or more characteristics of a hazardous waste and require appropriate analysis to determine specific disposal requirements. 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.

SECTION 14 - TRANSPORT INFORMATION

Not regulated.

SECTION 15 - REGULATORY INFORMATION

Australian Hazchem Code:
None allocated.

Poison Schedule:
None allocated.

WHMIS:

This MSDS has been prepared according to the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all of the information required by the CPR.

SECTION 16 - ADDITIONAL INFORMATION

Label Hazard Warning:

WARNING! HARMFUL IF SWALLOWED, INHALED OR ABSORBED THROUGH SKIN. CAUSES IRRITATION TO SKIN, EYES AND RESPIRATORY TRACT.

Label Precautions:

Do not breathe dust.

Avoid contact with eyes, skin and clothing.

Keep container closed.

Use only with adequate ventilation.

Wash thoroughly after handling.

Label First Aid:

If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. In case of contact, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Wash clothing before reuse. If swallowed, induce vomiting immediately as directed by medical personnel. Never give anything by mouth to an unconscious person. In all cases, get medical attention.

Product Use:

Laboratory Reagent.

Revision Information:

No Changes.

