



MATERIAL SAFETY DATA SHEET (MSDS)

SECTION 1: Identification

1.1 Product identifiers

Product Name : N-Bromosuccinimide
Cat No.: AC107450000; AC107450010; AC107450050; AC107450100;
AC107451000; AC107455000
CAS No. : 128-08-5

1.2 Relevant identified uses of the substance or mixture and uses advised against

Recommended uses : Laboratory chemicals
Uses advised against: Food, drug, pesticide or biocidal product use.

1.3 Details of the supplier of the safety data sheet

Company : Krishna Solvechem Limited.
B/503, Shayog, S. V. Road,
Kandivali (West), Mumbai – 400067. India.

Telephone : +91-22-6123 0222

Email : exports@kscl.co.in

1.4 Emergency telephone number

Emergency Phone : +91-8657457330

SECTION 2: Hazards identification

2.1 Classification

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200)

Oxidizing solids	(Category 3)
Skin Corrosion/Irritation	(Category 2)
Serious Eye Damage/Eye Irritation	(Category 2)
Corrosive to metals	(Category 1)
Skin sensitization	(Category 1)

2.2 Label elements

Pictogram :



Signal word warning

Hazard statement (s) May intensify fire, oxidizer



Precautionary statement (s)

Causes skin irritation
Causes serious eye irritation
May be corrosive to metals
May cause an allergic skin reaction

Prevention

Wash face, hands and any exposed skin thoroughly after handling.
Wear protective gloves/protective clothing/eye protection/face protection.
Avoid breathing dust/fume/gas/mist/vapors/spray
Contaminated work clothing should not be allowed out of the workplace.
Keep away from heat/sparks/open flames/hot surfaces – no smoking
Keep/store away from clothing/other combustible materials.
Take any precaution to avoid mixing with combustibles.
Keep only in original container.

IF ON SKIN (or hair):

If skin irritation occurs: Get medical advice/attention
IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower
Wash contaminated clothing before reuse

Eyes:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing If eye irritation persists: Get medical advice/attention

Fire

In case of fire: Use CO₂, dry chemical, or foam for extinction

Spills

Absorb spillage to prevent material damage

Storage:

Store in corrosive resistant polypropylene container with a resistant in liner.



Hazards not otherwise classified (HNOC)	<p>Disposal: Dispose of contents/container to an approved waste disposal plant</p> <p>very toxic to aquatic life</p>
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SECTION 3: Composition / information on ingredients

3.1

Component	CAS-No	Weight %
2,5-pyrrolidinedione, 1-bromo-	128-08-5	>95

SECTION 4: First aid measures

4.1 Description of first aid measures

General Advice :	If symptoms persist, call a physician.
If inhalation :	Remove to fresh air. If not breathing, give artificial respiration. Get medical attention if symptoms occur.
In case of skin contact :	Wash off immediately with plenty of water for at least 15 minutes. If skin irritation persists, call a physician.
In case of eye contact :	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Get medical attention.
Ingestion :	Clean mouth with water and drink afterwards plenty of water. Get medical attention if symptoms occur.
4.2 Most important symptoms and effects :	May cause allergic skin reaction. Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation: Symptoms of allergic reaction may include rash, itching, swelling, trouble breathing, tingling of the hands and feet, dizziness, lightheadedness, chest pain, muscle pain or flushing.

4.3 Notes to Physician :	Treat symptomatically
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SECTION 5: Firefighting effects

5.1 Extinguishing media

Suitable extinguishing media	CO ₂ , dry chemical, alcohol-resistant foam, dry sand
Unsuitable Extinguishing Media:	No information available
5.2 Flash Point :	180 °C / 356 °F
Method :	CC (Closed Cup)



Autoignition Temperature:	Not applicable
Explosion Limits:	
Upper	No data available
Lower	No data available
Sensitivity to Mechanical Impact	No information available
Sensitivity to Static Discharge	No information available
Specific Hazards Arising from the Chemical :	Corrosive material. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Do not allow run-off from fire-fighting to enter drains or water courses. Oxidizer: Contact with combustible/organic material may cause fire. May ignite combustibles (wood paper, oil, clothing, etc.).
Hazardous Combustion Products :	Carbon monoxide (CO). Carbon dioxide (CO ₂). Hydrogen halides. Nitrogen oxides

5.4 Protective Equipment and Precautions for Firefighters:	As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.			
<u>NFPA:</u>	Health	Flammability	Instability	Physical hazards
	3	1	2	OX

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures	Use personal protective equipment as required. Ensure adequate ventilation. Avoid dust formation.
6.2 Environmental precautions	Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system. Prevent product from entering drains. Local authorities should be advised if significant spillages cannot be contained.
6.3 Methods and materials for containment and cleaning up	Sweep up and shovel into suitable containers for disposal. Keep in suitable, closed containers for disposal. Soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling
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Wear personal protective equipment/face protection. Avoid dust formation. Do not get in eyes, on skin, or on clothing. Ensure adequate ventilation. Avoid ingestion and inhalation. Keep away from clothing and other combustible materials.

7.2 Conditions for safe storage

Protect from direct sunlight. Store under an inert atmosphere. Keep refrigerated. Corrosives area. Keep containers tightly closed in a dry, cool and well-ventilated place. Do not store near combustible materials. Incompatible Materials. Strong oxidizing agents. Strong bases. Strong acids. Alcohols. Amines. Ammonia. Metals. Strong reducing agents. Combustible material.

SECTION 8: Exposure controls/personal protection

8.1 Exposure Guidelines

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Engineering Measures

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Ensure adequate ventilation, especially in confined areas.

8.2 Exposure controls

Personal protective equipment -

Eye / Face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

Skin protection and body protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

Hygiene Measures

Handle in accordance with good industrial hygiene and safety practice..

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

a) Appearance	Form: Solid powder, off-white
b) Odour	pungent
c) Odour Threshold	No information available
d) pH	No information available
e) Melting point / freezing point	175 - 178 °C / 347 - 352.4 °F
f) Initial boiling point and	No information available



boiling range	
g) Flash point	180 °C / 356 °F CC(Closed cup)
h) Evaporation rate	Not applicable
i) Flammability (solid, gas)	No information available
j) Upper/lower flammability or explosive limits	No data available No data available
k) Vapour pressure	14.8 hPa @ 20 °C
l) Vapour density	Not applicable
m) Specific Gravity	No information available
n) Solubility	14.8 g/L (20°C)
o) Partition coefficient: n octanol/water	No data available
p) Auto-ignition temperature	Not applicable
q) Decomposition temperature	No information available
r) Viscosity	Not applicable
s) Molecular formula	C4 H4 Br N O2
t) Molecular Weight	177.99

SECTION 10: Stability and Reactivity

10.1 Reactive Hazard :	Yes
10.2 Chemical stability :	Moisture sensitive. Light sensitive. Oxidizer: Contact with combustible/organic material may cause fire.
10.3 Possibility of hazardous reactions :	None under normal processing.
10.4 Conditions to avoid :	Avoid dust formation. Incompatible products. Excess heat. Exposure to light. Exposure to moisture. Combustible material.
10.5 Incompatible materials:	Strong oxidizing agents, Strong bases, Strong acids, Alcohols, Amines, Ammonia, Metals, Strong reducing agents, Combustible material
10.6 Hazardous decomposition products :	Nitrogen oxides, Carbon monoxide (CO), Carbon dioxide (CO ₂), hydrogen halides
10.7 Hazardous Polymerization	No information available



SECTION 12: Ecological information

12.1 Ecotoxicity:	very toxic to aquatic organisms. The product contains following substances which are hazardous for the environment.
12.2 Persistence and degradability:	Soluble in water Persistence is unlikely based on information available
Bioaccumulation/ Accumulation	No information available
12.3 Mobility:	Will likely be mobile in the environment due to its water solubility.

SECTION 13: Disposal considerations

13.1 Waste treatment methods: Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

14.1 UN number :	DOT: UN3084	TDG: UN3084		
	IATA: UN3084	IMDG: UN3084		
14.2 UN proper shipping name				
DOT :	CORROSIVE SOLIDS, OXIDIZING, N.O.S.			
TDG :	Corrosive solid, oxidizing, n.o.s.			
IMDG :	Corrosive solid, oxidizing, n.o.s.			
IATA :	Corrosive solid, oxidizing, n.o.s.			
14.3 Transport hazard class(es)	DOT: 8	TDG: 8	IMDG: 8	IATA: 8
14.4 Packaging group:	DOT: II	TDG: II	IMDG: II	IATA: II

SECTION 15: Regulatory information

15.1 United states of America Inventory:

Component	CAS-No	TSCA	TSCA Inventory notification Active/Inactive	TSCA - EPA Regulatory Flags
2,5-Pyrrolidinedione, 1-bromo-	128-08-5	X	ACTIVE	-

Legend:



U.S. Department of Homeland Security - This product does not contain the any DHS Chemicals.

Other International Regulations

Mexico – Grade No information available

Authorization/Restrictions according to EU REACH

Safety, health and environmental regulations/legislation specific for the substance or mixture

Component	CAS No	OECD HPV	Persistent Organic Pollutant	Ozone Depletion Potential	Restriction of Hazardous Substances (RoHS)
2,5-Pyrrolidinedione, 1-bromo-	128-08-3	Not applicable	Not applicable	Not applicable	Not applicable
Component	CAS No	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Major Accident Notification	Seveso III Directive (2012/18/EC) - Qualifying Quantities for Safety Report Requirements	Rotterdam Convention (PIC)	Basel Convention (Hazardous Waste)
2,5-Pyrrolidinedione, 1-bromo-	128-08-3	Not applicable	Not applicable	Not applicable	Not applicable

SECTION 16: Other information

16.1 Prepared By: Regulatory affairs
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Revision Summary: This document has been updated to comply with the US OSHA HazCom 2012 Standard replacing the current legislation under 29 C FR 1910.1200 to align with the Globally Harmonized System of Classification and Labeling of Chemicals (GHS).

16.2 Disclaimer:

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.