

TECHNICAL DATA SHEET

SODIUM CHLORIDE, TECHNICAL — NSN 6810-01-528-4690

ALLIANCE CODE

SHOPIFY-7965564665898

GENERATED

2026-09-11

REVISION

1.0

IDENTITY & COMPOSITION

PRODUCT NAME

SODIUM CHLORIDE, TECHNICAL — NSN 6810-01-528-4690

ALLIANCE CODE

SHOPIFY-7965564665898

GRADE

—

CONCENTRATION

—

CAS NUMBER

— no canonical

FORMULA

— no canonical

MOLECULAR WEIGHT

— no canonical

PRODUCT TYPE

—

SPECIFICATIONS

Not yet characterized — Specification limits for this product have not been published yet. Contact Technical Services for the current specification; lot-specific certificates ship with every order.

MATERIALS OF CONSTRUCTION

MATERIAL	RATING	MAX T (°C)	NOTES	SOURCE
Buna-N (NBR) Elastomer	Good	60	Acceptable	Cole-Parmer Chemical Compatibility
EPDM Elastomer	Excellent	100	Standard for brine gaskets.	Parker O-ring Chemical Compatibility

MATERIAL	RATING	MAX T (°C)	NOTES	SOURCE
Viton (FKM) Elastomer	Excellent	100	Preferred elastomer	Cole-Parmer Chemical Compatibility
Borosilicate Glass Glass Ceramic	Excellent	100	Universally inert to salt solutions.	Cole-Parmer Chemical Compatibility
Concrete (sealed) Glass Ceramic	Good	—	Acceptable with epoxy coating	Cole-Parmer Chemical Compatibility
304 stainless steel Metal	Fair	25	Pitting in chloride-rich service	Cole-Parmer Chemical Compatibility
316L Stainless Steel Metal	Good	60	Watch for chloride pitting above 60 °C in chloride salts.	NACE Chloride Pitting Guidelines
Aluminium Metal	Poor	—	Pitting; not recommended for brine	Cole-Parmer Chemical Compatibility
Carbon steel Metal	Poor	—	Rapid rust in brine	Cole-Parmer Chemical Compatibility
FRP Thermoplastic	Excellent	60	Common bulk-storage	Cole-Parmer Chemical Compatibility
HDPE Thermoplastic	Excellent	60	Universal salt brine compatibility.	Cole-Parmer Chemical Compatibility
PP Thermoplastic	Excellent	80	Acceptable for hot brine	Cole-Parmer Chemical Compatibility
PVC Thermoplastic	Excellent	60	Standard for brine piping.	Cole-Parmer Chemical Compatibility

Ratings reflect the service envelope (concentration × temperature) shown. Always confirm against your specific duty cycle and contact-time before equipment selection. The most cautious rating across overlapping references is shown.

REGULATORY & TRANSPORT

DOT / 49 CFR

UN NUMBER

— no canonical

HAZARD CLASS

— no canonical

PACKING GROUP

— no canonical

PROPER SHIPPING NAME

— no canonical

GHS / OSHA HAZCOM 2012

SIGNAL WORD

— no canonical

H-CODES (HAZARD STATEMENTS)

— no canonical

P-CODES (PRECAUTIONARY STATEMENTS)

— no canonical

OCCUPATIONAL EXPOSURE LIMITS

OSHA PEL (29 CFR 1910.1000)

— no canonical

ACGIH TLV

— no canonical

NIOSH REL

— no canonical

NIOSH IDLH

— no canonical

Transport descriptions reflect 49 CFR 172.101 lookup at time of publication. Sourced data: ECHA CLP Annex VI for harmonised classifications, NIOSH Pocket Guide for REL/IDLH, OSHA Z-Tables for PEL. Always verify against the latest regulatory text before shipment-critical decisions.

APPLICATION GUIDANCE

SODIUM CHLORIDE, TECHNICAL — NSN 6810-01-528-4690 is supplied across multiple grades. Grade selection drives the appropriate end-use — food/pharma, technical, or specialty.

- Brine production and de-icing
- Concrete and construction (set acceleration, dust control)
- Food and beverage applications (food-grade only)
- Oilfield and drilling fluid additive
- Chemical manufacturing precursor

Often hygroscopic — store in sealed containers, control humidity. Hydrate form (anhydrous vs di/hexa-hydrate) affects mass-equivalent dosing.

STORAGE & HANDLING

RECOMMENDED STORAGE

Cool, dry area in sealed containers. Many salts are hygroscopic — protect from atmospheric moisture, which can cause caking, hydrate formation, or reduced flow.

Class-level guidance — not product-specific; the SDS controls.

INCOMPATIBILITIES

Specific incompatibilities depend on the salt — consult the SDS. Many salts react with strong acids to release gases.

Class-level guidance — not product-specific; the SDS controls.

For full hazard, PPE, and emergency response guidance, refer to the Safety Data Sheet (SDS) for this product. The SDS controls in all cases where guidance differs.

HANDLING PRECAUTIONS

Standard chemical PPE — dust mask and goggles for handling of fine grades. Avoid generating airborne dust.

Class-level guidance — not product-specific; the SDS controls.

SHELF LIFE

Consult Technical Services for product-specific shelf life

This Technical Data Sheet is provided for technical reference. The Safety Data Sheet (SDS) controls in all cases where guidance differs. Values reflect Alliance Chemical canonical data at time of generation; subsequent revisions are recorded in the Revision History above.