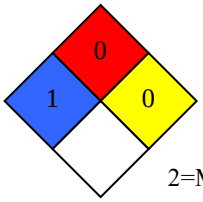
1.0 Chemical Identity

1.1	Product Name	Salt
	Synonyms	Sodium Chloride ,Table Salt, Rock Salt
	Formula	NaCl
1.2	Recommended Use and Restrictions	
	Use of substance	Food, Chemical and Drug Processing; Pharmaceuticals; Water Conditioning; Ice Control; Chemical Feedstock
1.3	Company Information	
		Name: Al Kout Industrial Projects , Kuwait **Plant:** Salt & Chlorine Plant, Shuaiba, Kuwait **Company's Post Box No.:** 10277, Shuaiba-65453, Kuwait **Tel No.:** 00-(965)-22283726 Intercom: 3726, 3725 **Fax No.:** 00-(965)- 22284043 **Company's Emergency Phone No:** 00-(965)-, 23261029, 97216020, 99794511
1.4	Emergency Telephone Number	00-(965)-, 23261029, 97216020

2.0 Hazardous Identification

3.1	NFPA Ratings	Health: 1 , Fire : 0 , Reactivity : 0  Hazardous scale : 0=Minimal , 1=Slight , 2=Moderate , 3=Serious , 4=Severe
3.2	Emergency Overview	None-GRAS Substance (Generally Recognized As Safe)
3.3	Inhalation	May cause mild irritation to the respiratory tract
3.4	Skin	May irritate damaged skin; absorption can occur with effects similar to those via ingestion
3.5	Ingestion	Less than a few grams would not be harmful. Very large doses can cause vomiting, diarrhea, and prostration. Dehydration and congestion occur in most internal organs. Hypertonic salt solutions can produce violent inflammatory reactions in the gastrointestinal tract.
3.6	Eye	Causes irritation, redness, and pain. (For salt concentrations greater than the normal saline present.)

3.0 Composition/ Information on ingredients

3.1 Substances

Name : Salt
CAS No : 7647-14-5
EINECS number : 231-598-3
Finished Product Specification : Salt

3.2	Chemical Analysis
Parameters	Specification
Purity (as NaCl+KCl) wt. %	≥ 99.8
Calcium as Ca^{+2} ppm by wt	≤ 300
Magnesium as Mg^{+2} ppm by wt	≤ 200
Sulphate as $SO4^{-2}$ ppm by wt	≤ 400
Moisture as H_2O ppm by wt	≤ 500

Water insoluble ppm by wt	≤ 10
Iron as Fe^{+3} ppm by wt	≤ 5
Bulk Density Kg/lit	1.2-1. 3
Crystal size more than 0.75 mm wt.%	8.0
Crystal size more than 0.25 mm wt %	95.0
Crystal size less than 0.25 mm wt.%	2.2

4.0 First Aid Measures

4.1	Inhalation	Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing.
4.2	Skin	IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.
4.3	Eyes	In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
4.4	Ingestion	If large quantities are swallowed, call a physician immediately.

5.0 Fire Fighting Measures

5.1	Fire fighting procedure/Fire Extinguishing media	Not considered to be a fire hazard

6.0 Accidental Release Measures

6.1	Clean Up Methods	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. Small amounts o residue may be flushed to sewer with plenty of water.

7.0 Handling and Storage

7.1	Handling & Storage	Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage. 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.

8.0 Exposure Controls/Personal Protection

8.1	Exposure Control	**Airborne Exposure Limits:** None established. **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.
8.2	Personal Protection	**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 protective gloves and clean body-covering clothing. **Eye Protection:** Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9.0 Physical and Chemical Properties

9.1	Appearance/ Colour	White crystalline solid
9.2	Odour	Odourless
9.3	Molecular Weight	58.44
9.4	Melting Point	801 ^{0}C
9.5	Boiling Point	1465 ^{0}C
9.6	Specific gravity	2.16
9.7	Vapour Density (Air = 1)	N/A
9.8	Solubility in water	36 gms/100cc of water @ 20 ^{o} C
9.9	Finished Product	Salt
9.9.1	Chemical Analysis	

No	Component	Unit of measurement	Method of analysis	Value
9.9.1.1	Purity (NaCl + KCl)	wt %	ASTM-E538-2018	≥ 99.8
9.9.1.2	Calcium as Ca^{+2}	ppm by wt		≤ 300
9.9.1.3	Magnesium as Mg^{+2}	ppm by wt		≤200
9.9.1.4	Sulphate as SO_4^{--}	ppm by wt		≤400
9.9.1.5	Moisture as H_2O	ppm by wt		≤500
9.9.1.6	Water insoluble	ppm by wt		≤10
9.9.1.7	Iron as Fe +3	ppm by wt		≤5
9.9.1.8	Bulk density	Kg/Lit		1.2-1.3
9.9.1.9	Crystal size more than 0.75mm mesh	wt %		8
9.9.1.10	Crystal size more than 0.25mm mesh	wt%		95
9.9.1.11	Crystal size less than 0.25mm mesh	wt %		2.2

10.0 Stability and Reactivity

10.1	Stability	Stable
10.2	Hazardous decomposition Products	May evolve chlorine gas when in contact with strong acids. When heated to above 801 ^{o}C (1474F) it emits toxic fumes of chloride and sodium oxide.
10.3	Incompatibilities	Avoid contact with strong acids. Becomes corrosive to metals when wet.

11.0 Toxicological Information

Oral rat LD50: 3000 mg/kg.
Inhalation rat LC50: > 42 gm/m3 /1H.
Skin rabbit LD50: > 10 gm/kg. Investigated as a mutagen, reproductive effector.

--------\Cancer Lists\----------

---NTP Carcinogen---

Ingredient	Known	Anticipated	IARC Category
Sodium Chloride (7647-14-5)	No	No	None

12.0 Ecological Information

NIL

13.0 Disposal Considerations

13.1	Whatever cannot be saved for recovery or recycling should be managed in an appropriate and 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 conten in accordance with federal, state and local requirements

14.0 Transport Information

14.1	UN No	Not regulated
14.2	IMCO Class	
14.3	Packaging group	
14.4	ADR/RID classification code	

15.0 Regulatory Information

-SARA 302- ------SARA 313------

Ingredient	RQ	TPQ	List	Chemical Catg.
Sodium Chloride (7647-14-5)	No	No	No	No

--------\Federal, State & International Regulations - Part 2\----------

Ingredient	-RCRA- CERCLA	-TSCA- 261.33	8(d)
Sodium Chloride (7647-14-5)	No	No	No

16.0 Other Information

16.1	Packaging: In 50 Kg HDPE bags on wooden/plastic pallet
16.2	**DISCLAIMER**
	Although reasonable care has been taken in the preparation of this document, we extend no warranties and mak no representations as to the accuracy or completeness of the information contained herein, and assume no responsibili regarding the suitability of this information for the user's intended purposes or for the consequences of its use. Eac individual should make a determination as to the suitability of the information for their particular purpose(s)

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.