

WA SALT GROUP



MATERIAL SAFETY & DATA SHEET Group 2

1. IDENTIFICATION OF THE MATERIAL & COMPANY

Product: Sheepskin 1% , 1.4% , 2% , Hide Salt

Use: Used to cure hides and skins

Supplier: WA Salt Group, 187 Cockburn Road, North Coogee WA 6163

Telephone: (08) 94319431

EMERGENCY TELEPHONE NUMBER (08) 94319431

2. HAZARDS IDENTIFICATION

CLASSED AS HAZARDOUS ACCORDING TO NOHSC CRITERIA

Risk Phrases:	R25	Toxic if swallowed
	R32	Contact with acids liberates very toxic gas
	R36/38	Irritating to eyes and skin
	R60	May impair fertility.
	R61	May cause harm to the unborn child.
Safety Phrases:	S22	Do not breathe dust
	S36	Wear suitable protective clothing
	S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label whenever possible)
	S53	Avoid exposure - obtain special instructions before use.

3. COMPOSITION OF THE MATERIAL

Name:	Sodium Chloride	Boric Acid	Sodium Fluoride
Chemical Formula:	NaCl	H ₃ BO ₃	NaF
CAS #:	7647-14-5	10043-35-3	7681-49-4
Concentration:	97% - 99.5%	Up to 2%	Up to 2%

4. FIRST AID MEASURES

- Ingestion: High water (or milk) intake facilitates urinary excretion. Provide liquid slowly but as much as casualty will drink (at least 2 – 4 cupfuls). Due to the presence of sodium fluoride and boric acid, seek medical aid immediately. **CAUTION: NEVER MAKE UNCONSCIOUS PERSON VOMIT OR DRINK FLUIDS.**
- Eye Contact: Irrigate with ample volume of water for 15 minutes. Keep eyelids well apart while rinsing and ensure no particles are lodged behind eyelids. Due to the presence of sodium fluoride medical aid should be sought immediately. Do not allow the victim to rub eyes or keep eyes closed.
- Skin Contact: Wash affected areas thoroughly with water (and soap if available). Seek medical attention in event of continued irritation. Wash clothing before reuse.
- Inhalation: Not normally a risk, but some discomfort may follow where working with dusty product. Ensure airways are clear, remove to fresh air. Allow patient to drink ample water (or milk).

Sodium fluoride and boric acid are present in quantities each less than 2%, therefore ingestion of sufficient quantities of the total mixture to cause acute harm is unlikely. Sodium fluoride is toxic however therefore serious cases should have medical aid immediately.

5. FIRE FIGHTING MEASURES

HAZCHEM CODE: NONE ALLOCATED

This material is non combustible. Flames on or in the vicinity of this material can be extinguished using conventional fire fighting agents and procedures. However, when heated to decomposition, it emits toxic chloride and sodium oxide fumes.

6. ACCIDENTAL RELEASE MEASURES

Recover product where practical. Sweep up remnants and dispose of in a sealed container in licenced waste. Flush the area to dissolve in sufficient amounts of water to meet existing water quality standards

7. HANDLING & STORAGE

Store under cover at relative humidities below 75% to retard caking. Cycling salt through the 75% relative humidity zone will rapidly increase the onset of caking. Do not store near foodstuffs, with strong acids and strong oxides. In transit, cover to prevent rain and physical damage

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Individual protective means may vary according to type and extent of exposure. In dusty areas dust masks or respirators will be required. Thick clothing is recommended overalls with long sleeves and buttons done up to reduce skin contact - regular laundering is essential. Rubber gloves or gauntlets are recommended where “hands on” contact occurs. Wash facilities required so hands and face can be washed thoroughly after exposure, before eating, drinking, smoking or going home. No smoking permitted in area. No eating or drinking in area. Goggles to be worn when there is risk of eye contamination.

9. PHYSICAL & CHEMICAL PROPERTIES

Name:	Sodium Chloride	Boric Acid	Sodium Fluoride
Chemical Formula:	NaCl	H ₃ BO ₃	NaF
CAS #:	7647-14-5	10043-35-3	7681-49-4
Concentration:	97%-99.5%	0.25%-1.25%	0.25%-1.25%

Appearance: Translucent to white crystals, granules or powder
 Crystal Shape: Cubic/pyramidal in shape
 Molecular weight: 58.448

Properties of NaCl: The composition by weight is 39.3% sodium & 60.7% chloride

Properties of H₃BO₃: The composition by weight is 4.89% hydrogen, 17.48% boron & 77.62% oxygen

Properties of NaF: The composition by weight is 54.75% sodium & 45.24% fluorine

Density: 1.2 gm/cc
 Ph: is in the range of 7.0 to 7.8
 Melting Point: 801 degrees C
 Boiling Point: 1413 degrees C at 101.3 kPa
 Vapour Pressure: 1mm Hg at 865 degrees C
 Flashpoint: Not applicable
 Flammability Limits: Not applicable

Solubility in Water: 35.7 gm/100 ml at 0 degrees C, 39.12 gm/100 ml at 100 degrees C

10. STABILITY & REACTIVITY

Chemical Stability: Stable
 Conditions to Avoid: None
 Incompatible materials: Bromium Trifluoride, Lithium, strong acids
 Hazardous Reactions: Reacts violently with Bromium Trifluoride and Lithium

11. TOXICOLOGICAL INFORMATION

Salt and Boric Acid has been not been classed as non hazardous according to NOHDC criteria. Sodium Fluoride has been not been classed as hazardous according to NOHDC criteria. Some health effects can be:

Sodium Chloride:

- Ingestion: Irritant to the stomach. Excessive ingestion may cause elevated blood pressure or oedema.
- Eye Contact: Irritant.
- Skin Contact: May be an irritant to skin if applied to open cuts/abrasions.
- Inhaled: Irritation to nose & mucous membranes.

Boric Acid:

- Ingestion: Nausea or abdominal pain, diarrhoea & violent vomiting, sometimes bloody, headache and weakness. In severe cases shock with fall in arterial pressure. Fatal dose is reported at 5 - 30 grams.
- Eye Contact: Irritant. May contact may cause redness, irritation and pain.
- Skin Contact: Toxic to damaged skin; keep cuts, abrasions, wounds and burns well bound. Wear protective clothing or gloves. Not absorbed from intact skin.
- Inhalation: Causes irritations of the mucous membranes of the respiratory tract. May be absorbed from the mucous membranes and depending on the amount of exposure could result in the development of nausea, vomiting, diarrhoea, drowsiness, rash, headache, fall in body temperature, low blood pressure, renal injury, cyanosis, coma and death.

Sodium Fluoride:

- Ingestion: POISONOUS IF SWALLOWED. Vomiting, risk of shock, cramps, abdominal pain, diarrhoea, distributed colour vision, loss of consciousness. Death through heart and lung failure. Lethal dose for an adult taken as 5 grams.
- Eye Contact: Irritant, contact lenses should not be worn when working with Sodium Fluoride. Permanent eye damage is possible.
- Skin Contact: Can cause dermatitis, avoid contact with the skin and in particular damaged skin, cuts, burns, etc.
- Inhalation: May cause irritation to respiratory tract. Lung oedema may occur some hours later and can be fatal. Long term exposure may result in excessive calcification of the bone, ligaments of the ribs, pelvis and spinal column. Osteosclerosis

12. ECOLOGICAL INFORMATION

Ensure appropriate measures are taken to prevent material entering the environment

13. DISPOSAL CONSIDERATIONS

Clean material can be re used. Dispose of waster material only in accordance with the applicable federal, state and local laws and regulations

14. TRANSPORT INFORMATION

NOT CLASSIFIED AS A DANGEROUS GOOD BY THE CRITERIA OF THE ADG CODE

UN Number:	None allocated
Hazchem Code:	None allocated
Dangerous Goods Class:	None allocated
Subsidiary Risk:	None Allocated

15. OTHER INFORMATION

The data of this material safety data sheet are current at the time of issue and relate only to the materials and not to its use in combination with any other material or in any process. WA Salt Group disclaim responsibility for damages resulting from the use of or reliance upon the data of this material safety data sheet. No expressed or implied warranties are given other than those implied by Commonwealth, State or Territory legislation.