



MATERIAL SAFETY DATA SHEET

1. COMPANY AND PRODUCT IDENTIFICATION

DUNCAN ENTERPRISES
5673 East Shields Avenue
Fresno, CA 93727
559-291-4444
559-291-9444 (Fax)

EMERGENCY TELEPHONE NUMBERS

Health Emergency: 559-291-4444 7:00 am – 3:30 pm
Pacific Standard Time
Spill and Off-Hour
Health Emergencies: 800-424-9300 U.S. and Canada
703-527-3887 Outside U.S. and
Canada (Collect)

Product Name: TULIP TIE DYE SALT RESIST
Synonyms: Salt; Rock Salt; Saline; Table Salt; Sodium Chloride

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS Number</u>	<u>Percent</u>	<u>Hazardous</u>
Sodium Chloride	7647-14-5	99 – 100	Yes

3. HAZARDS IDENTIFICATION

HMIS Hazard Ratings

Health:	1	0 = Minimal
Flammability:	0	1 = Slight
Reactivity:	0	2 = Moderate
Personal Protection:	See Section 8	3 = Serious
		4 = Severe
		* = Chronic Effects

NFPA Hazard Ratings

Health:	1
Flammability:	0
Reactivity:	0
Special Hazard:	0

Emergency Overview: Warning: Causes eye irritation.

4. FIRST AID MEASURES

Eye Contact: Immediately flush with water for at least 15 minutes, lifting the upper and lower lids occasionally. See a medical doctor immediately.

Skin Contact: Wash affected area with soap and water. If irritation occurs and persists, obtain medical attention.

Inhalation: Remove to fresh air; get medical attention for any breathing difficulty.

Ingestion: If large amounts are swallowed, give water to drink and seek medical advice.

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5. FIRE FIGHTING MEASURES

- Fire:** Not considered to be a fire hazard
- Explosion:** Not considered to be an explosion hazard
- Fire Extinguishing Media:** Use any means suitable for extinguishing surrounding fire
- 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.

6. ACCIDENTAL RELEASE MEASURES

- Procedure for Release or Spill:** 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 of residue may be flushed to sewer with plenty of water.

7. HANDLING AND STORAGE

- Handling:** Observe all warnings and precautions listed for the product.
- 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 can retain product residues (dust, solids).

8. EXPOSURE CONTROL AND PERSONAL PROTECTION

- Airborne Exposure Limits:** None established
- Ventilation:** 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.
- Personal Respirators:** 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 particulates (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.

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9. PHYSICAL AND CHEMICAL PROPERTIES

Molecular Weight:	58.44
Chemical Formula:	NaCl
Melting/Freezing Point:	801° C (1474° F)
Boiling Point:	1413° C (2575° F)
Vapor Pressure:	1 mm Hg @ 865° C (1589° F)
Vapor Density:	N/A
Appearance and State:	White crystals
Odor:	Odorless
Specific Gravity (Water = 1):	2.16
Solubility in Water:	36 g / 100 cc water @ 20° C (68° F)
Percent Volatiles (21° C (71° F)):	0.0
Evaporation Rate:	N/A
pH (aqueous solution):	6.7 – 7.3
Flash Point:	N/A
Autoignition Temperature:	N/A

10. STABILITY AND REACTIVITY

Stability:	Stable under ordinary conditions of use and storage. Hygroscopic
Incompatibilities:	Lithium, Bromine Trifluoride
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	Contact with incompatible materials

11. TOXICOLOGICAL INFORMATION

Eye Contact:	Causes irritation, redness, and pain. (For salt concentrations greater than the normal saline present.)
Skin Contact:	May irritate damaged skin; absorption can occur with effects similar to those via ingestion.
Inhalation:	May cause mild irritation to the respiratory tract.
Ingestion:	Very large doses can cause vomiting, diarrhea, and prostration. Dehydration can occur in most internal organs, hypertonic salt solutions can produce violent inflammatory reactions in the gastrointestinal tract.
Chronic Exposure:	No information found

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11. TOXICOLOGICAL INFORMATION (Continued)

Aggravation of Pre-existing Conditions: No information found

Carcinogenicity:

Ingredient	CAS Number	Known	Anticipated	IARC Category
Sodium Chloride	7647-14-5	No	No	None

Other Information: Oral rat LD50: 3000 mg / kg
 Inhalation rat LC50: >42 g / m³ / 1 hour
 Skin rabbit LD50: >10 g / kg; investigated as a mutagen, reproductive effector

12. ECOLOGICAL INFORMATION

Environmental Fate: No information found

Environmental Toxicity: No information found

13. DISPOSAL CONSIDERATIONS

Waste Disposal Methods: 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 contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Not regulated

15. REGULATORY INFORMATION

Chemical Inventory Status – Part 1

Ingredient	TSCA	EC	Japan	Australia
Sodium Chloride (7647-14-5)	Yes	Yes	Yes	Yes

Chemical Inventory Status – Part 2

---Canada---

Ingredient	Korea	DSL	NDSL	Phil.
Sodium Chloride (7647-14-5)	Yes	Yes	No	Yes

Federal, State and International Regulations – Part 1

-----SARA 302-----

-----SARA 313-----

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

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15. REGULATORY INFORMATION (Continued)

Federal, State and International Regulations – Part 2

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

Chemical Weapons Convention: No TACA 12(B): No Fire: No CDTA: No
 SARA 311/312: Acute: Yes Chronic: No Fire: No Pressure: No
 Reactivity: No (Pure / Solid)

Australian Hazchem Code: No information found

Poison Schedule: No information found

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.

16. OTHER INFORMATION

Table of Abbreviations

ACGIH	American Conference of Governmental Industrial Hygienists
ANSI	American National Standards Institute
ASTM	American Society for Testing Materials
°C	Degrees Centigrade
CAS	Chemical Abstract Service
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CPR	Controlled Products Regulations
DOT	Department of Transportation
EPA	Environmental Protection Agency
°F	Degrees Fahrenheit
FDA	Food & Drug Administration
Hg	Mercury
HMIS	Hazardous Materials Identification System
IARC	International Agency for Research on Cancer
LD	Lethal Dose
mg / kg	Milligram per kilogram
mm	Millimeter
MSDS	Material Safety Data Sheet
MSHA	Mine Safety and Health Administration
N / A	Not Applicable
NFPA	National Fire Protection Association
NIOSH	National Institute for Occupational Safety and Health
NTP	National Toxicology Program
OSHA	Occupational Safety and Health Administration
ppm	Parts per million
SARA	Superfund Amendment and Reauthorization Act
STEL	Short-Term Exposure Limit

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16. OTHER INFORMATION (Continued)

Table of Abbreviations, Continued

TSCA	Toxic Substances Control Act
TWA	Time - Weighted Average
U.N.	United Nations
WHMIS	Workplace Hazardous Materials Information System
>	Greater Than
<	Less Than

Creation Date: 10/26/06
Revision Date: 09/25/07
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Disclaimer

The information given and the recommendations made herein apply to our product(s) alone and not combined with any other product(s). Such are based on our research and on data from other reliable sources and are believed to be accurate. No guarantee of accuracy is made. It is the purchaser's responsibility before using any product to verify this data under their own operating conditions and to determine whether the product is suitable for their purposes.