



## MATERIAL SAFETY DATA

### 1. PRODUCT IDENTIFICATION

NAME: **WATER-SOFT**  
 SYNONYMS: Chelating liquid 100  
 GENERAL ID: Salts

### 2. COMPOSITION/INFORMATION ON INGREDIENTS

INGREDIENT (S)	CAS. NO	WT%
Water	7732-18-5	54.0 – 58.0
Ethylenediamine Tetraacetic Acid NA Salt	64-02-8	35.0 – 39.0
Sodium Glycolate	2836-32-0	1.0 – 5.0
Unknown Material		0.0 – 4.0
Nitrilotriacetic Acid Trisodium Salt	5064-31-3	1.0 – 3.0
Sodium Hydroxide	1310-73-2	1.0 – 3.0

### 3. HAZARDS IDENTIFICATION / POTENTIAL HEALTH EFFECTS

**EYE CONTACT:** Can cause permanent eye injury. Symptoms include stinging, tearing, redness, and swelling of eyes. Can injure the cornea and cause blindness.

**SKIN CONTACT:** Can cause severe skin irritation. Symptoms may include redness and burning of skin, and other skin damage. Additional symptoms of skin contact may include; skin blistering. Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

**SWALLOWING:** Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

**INHALATION:** Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

**SYMPTOMS OF EXPOSURE:** Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways).

**TARGET ORGAN EFFECTS:** No Data.

**DEVELOPMENTAL INFO.:** This material (or a component) has been shown to cause birth defects in laboratory animal studies. Harm to the fetus occurs only at exposure levels that harm the pregnant animal. The relevance of these findings to humans is uncertain.

**CANCER INFORMATION:** There is no information available. The chance of this material causing cancer is unknown. This material is not listed as a carcinogen by the International Agency for Research on Cancer, the National Toxicology Program, or the Occupational Safety and Health Administration. Nitrilotriacetic acid and its sodium salt have been shown under certain conditions to induce tumors in the urinary tracts of rats and mice.

**OTHER HEALTH EFFECTS:** No Data.

**PRIMARY ROUTE (S) OF ENTRY:** Inhalation, skin absorption, skin contact, eye contact.

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#### 4. EMERGENCY FIRST AID

EYE CONTACT:	If symptoms develop, immediately move individual away from exposure and into fresh air. Flush eyes gently with water for at least 15 minutes while holding eyelids apart; seek immediate medical attention.
SKIN CONTACT:	Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.
SWALLOWING:	Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.
INHALATION:	If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.
NOTE TO PHYSICIANS:	Pre-existing disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma like conditions).

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#### 5. REACTIVITY DATA

STABILITY:	( ) unstable (x) stable
INCOMPATIBILITY (MATERIALS TO AVOID):	Avoid contact with: aluminum, copper, reactive metals such as aluminum and magnesium. Strong oxidizing agents, can react with chemically reactive metals such as, aluminum, zinc, magnesium, copper, etc., to release hydrogen gas, which can form explosive mixtures with air.
HAZARDOUS DECOMPOSITION PRODUCTS:	May form: ammonia, carbon dioxide and carbon monoxide, nitrogen oxides, various hydrocarbons.
HAZARDOUS POLYMERIZATION:	( ) may occur (x) will not occur

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#### 6. PHYSICAL and CHEMICAL PROPERTIES

APPEARANCE AND ODOR:	No Data.
STATE:	Liquid.
PHYSICAL FORM:	Homogeneous Solution.
COLOR:	Clear, G Color 3 Max
BOILING POINT:	222.8 °F (106.0 °C) @ 760 mmHg
SPECIFIC GRAVITY:	1.290 – 1.325 @ 77.00 °F
VAPOR DENSITY:	No Data.
LIQUID DENSITY:	10.830 lbs./gal. @ 77.00 °F 1.302 kg/l @ 25.00 °C
VAPOR PRESSURE:	< 17.500 mmHg @ 68.00 °F
PERCENT VOLATILES:	55.00 – 60.0%
EVAPORATION RATE:	Slower than Ethyl Ether.
pH:	11.0 – 11.8

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## 7. FIRE AND EXPLOSION HAZARD INFORMATION

FLASHPOINT:	NA
EXPLOSIVE LIMIT:	NA
AUTOIGNITION LIMITS:	No Data.
HAZARDOUS PRODUCTS OF COMBUSTION:	May form: ammonia, carbon dioxide and carbon monoxide, nitrogen oxides, various hydrocarbons.
FIRE AND EXPLOSION HAZARDS:	No Data.
EXTINGUISHING MEDIA:	Alcohol foam, water fog, carbon dioxide, dry chemical.
FIRE FIGHTING INSTRUCTIONS:	Wear a self-contained breathing apparatus with a full-face piece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS. No special precautions necessary when fighting fires involving this product.
NFPA RATING:	Not determined.

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## 8. HANDLING AND STORAGE:

HANDLING:	Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed.
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## 9. EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE PROTECTION:	Chemical splash goggles in compliance with OSHA regulations are advised; however, OSHA regulations also permit other type of safety glasses. Consult your safety representative.
SKIN PROTECTION:	Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.
RESPIRATORY PROTECTION:	If workplace exposure limit(s) of product or any component is exceeded (see exposure guidelines), a NIOSH/MSHA approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators (negative pressure type) under specified conditions (see your industrial hygienist). Engineering or administrative controls should be implemented to reduce exposure.
ENGINEERING CONTROLS:	Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV(s).
<b>EXPOSURE GUIDELINES COMPONENT:</b>	
WATER (7732-18-5):	No exposure limits established.
ETHYLENEDIAMINE TETRAACETIC ACID NA SALT (64-02-8):	No exposure limits established.
SODIUM GLYCOLATE (2836-32-0):	No exposure limits established.
UNKNOWN MATERIAL:	No exposure limits established.
NITRILOTRIACETIC ACID TRISODIUM SALT (5064-31-3):	No exposure limits established.
SODIUM HYDROXIDE (1310-73-2):	OSHA VPEL 2.000 mg/m <sup>3</sup> – Ceiling. ACGIH TLV 0.000 C 2 mg/m <sup>3</sup> . ACGIH TLV 2.000 mg/m <sup>3</sup> – Ceiling.

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## 10. SPILL OR LEAK PROCEDURES

**SMALL SPILL:** Absorb liquid on vermiculite, floor absorbent or other absorbent material.

**LARGE SPILL:** Eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source. Prevent from entering drains, sewers, streams or other bodies of water. Prevent from spreading. If runoff occurs; notify authorities as required. Pump or vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal. Prevent runoff to sewers, streams or other bodies of water. If runoff occurs, notify proper authorities as required, that a spill has occurred. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at source, dike area of spill to prevent spreading, pump liquid to salvage tank. Remaining liquid may be taken up on sand, clay, earth, floor absorbent, or other absorbent material and shoveled into containers.

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## 11. TOXICOLOGICAL INFORMATION

NO DATA.

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## 12. ECOLOGICAL INFORMATION

NO DATA

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## 13. DISPOSAL CONSIDERATION

**WASTE MANAGEMENT INFO.:** Dispose of in accordance with all applicable local, state and federal regulations.

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## 14. TRANSPORT INFORMATION

DOT INFORMATION 49 CFR 172.101

DOT DESCRIPTION: Non-regulated by D.O.T.

CONTAINER/MODE: 55 Gallon Drum/Truck Package.

NOS COMPONENT: None.

RQ (REPORTABLE QUANTITY)  
49 CFR 172.101: Not applicable.

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## 15. REGULATORY INFORMATION

### US FEDERAL REGULATIONS

TSCA (Toxic Substances Control Act) STATUS: TSCA (United States) The intentional ingredients of this product are listed.

CERCLA RQ – 40 CFR 302.4(a)

<u>Component</u>	<u>RQ (lbs)</u>
Sodium Hydroxide	1000

SARA 302 COMPONENTS – 40 CFR 355 APPENDIX A: None

SECTION 311/312 HAZARD CLASS 40 CFR 370.2

Immediate (X)      Delayed (X)      Fire ( )      Reactive ( )      Sudden Release of Pressure ( )

SARA 313 COMPONENTS 40 CFR 372.65: None

## **INTERNATIONAL REGULATIONS**

### **INVENTORY STATUS:**

DSL (CANADA): The intentional ingredients of this product are listed.

EINECS (EUROPE): The intentional ingredients of this product are listed.

TCCL (KOREA): The intentional ingredients of this product are listed.

### **STATE AND LOCAL REGULATIONS:**

CALIFORNIA PROPOSITION 65: The following statement is made in order to comply with the California Safe Drinking Water and Toxic Enforcement Act of 1986: This product contains the following substance(s) known to the State of California to cause cancer. FORMALDEHYDE (GAS).

NEW JERSEY RTK LABEL INFORMATION: Sodium Hydroxide 1310-73-2.

PENNSYLVANIA RTK LABEL INFORMATION: Sodium Hydroxide (NA (OH) ) 1310-73-2.

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## **16. OTHER INFORMATION**

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances.

The recommendation for safe handling and protection procedures is believed to be generally suitable for the standard uses of this compound. However, each user should identify his intended uses of this material and determine whether they are appropriate. All data included in this document is released as typical values and should not be utilized to determine the suitability of this material for a particular use or purpose. No warranty, either expressed or implied, is hereby made, nor do we give permission, inducement, or recommendations to practice any patented invention without a license. All data is offered for consideration, investigation and verification purposes only.

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