


**SAFETY DATA SHEET**

According to 1907/2006/EC, Article 31, and Regulation (EC) No 1272/2008 (CLP / GHS)

PRODUCT NAME: **נוזל למדיח כלים RAD 700**

1. IDENTIFICATION OF THE PRODUCT & THE COMPANY	
Product name	נוזל למדיח כלים RAD 700
Classification	An aqueous mixture of sodium hypochlorite and alkaline salts
Chemical name	N/A (complex mixture)
Supplier & Emergency information	ECORAD Ltd. Industrial zone 47 Arad, Israel. Tel: 076-5310055 Fax: 076-5310052 ☎ Emergency: +972-50-691-1555 – Mr. Amos Levi amos@ecorad.co.il
Last revision	Aug, 2 nd 2018

2. HAZARD IDENTIFICATION	
HAZARD CLASS:	 SKIN CORROSION cat. 1B EYE DAMAGE cat. 1
SIGNAL WORD:	DANGER
HAZARD CODES:	H314 H318
HAZARD STATEMENTS	CAUSES SEVERE SKIN BURNS AND EYE DAMAGE
ADDITIONAL INFO	Contains: POTASSIUM HYDROXIDE SOLUTION UN 1814

3. COMPOSITION OF PRODUCT AND HAZARDOUS INGREDIENTS	
Chemical characterization	N / A (mixture)



Description		Mixture of substances listed below		
Components contributing to the hazard according to European Directives 67/548/ECC, 648/2004/EC and 1999/45/ECC				
Ingredient (INCI)	CAS No.	%	EU Classification / GHS system	
Potassium Hydroxide	1310-58-3	≤ 3.0%	 DANGER Skin Corrosion cat. 1A Metal Corrosion cat. 1 Acute Toxicity cat. 4	H290 H314
Sodium Hypochlorite, solution	7681-52-9	≤ 2.0%	 DANGER Skin Corrosion cat.1B Acute Aquatic Toxicity cat.1	H314 H400
Sodium Metasilicate pentahydrate	10213-79-3	≤ 2.0%	 DANGER Corrosive to Metals cat.1 Skin Corrosion cat.1B S.T.O.T. Single Exp. respiratory system, cat.3	H290 H314
Fragrance ingredients that require labeling according to DIRECTIVE 2003/15/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL				
Wording of the H-codes for the above components:				
H290	May be corrosive to metals	H314	Causes severe skin burns and eye damage	
H400	Very toxic to aquatic life			

4. FIRST AID MEASURES

General Advice	Immediately remove any clothing soiled by the product.
Skin	Immediately wash with water and soap and rinse thoroughly.



Eyes	Rinse opened eye for several minutes under running water. Then consult a doctor.
Inhalation	In case of unconsciousness place patient stably in side position for transportation
Ingestion	Do NOT induce vomiting. Drink plenty of water and provide fresh air. Call for a doctor immediately and show label.

5. FIRE-FIGHTING MEASURES



Extinguishing media	A non-combustible product
Unsuitable extinguishing media	N/A
Unusual firefighting hazard	N/A
Special firefighting procedure	N/A
Combustion products	Not known

6. ACCIDENTAL RELEASE MEASURES

Personal precaution	Use personal protective equipment. Avoid breathing vapors or mist. Ensure adequate ventilation. For personal protection see section 8.
Precaution to protect the environment	No special measures required
Methods and material for containment and cleaning up	Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Use neutralizing agent. Dispose contaminated material as waste according to item 13.

7. HANDLING & STORAGE

Handling precautions	Avoid contact with skin and eyes. For precautions see section 2.
Storage	Keep container tightly sealed in a dry and well-ventilated place. Containers which are opened must be carefully re-sealed and kept upright to prevent leakage. Avoid contact with heat. Store away from incompatible materials and foodstuff containers.
Unsuitable packaging material	Non-sealable containers. Containers which are sensitive to alkali or oxidizing agents.
Incompatibilities	Keep away from acids or reducing agents.

8. EXPOSURE CONTROL AND PERSONAL PROTECTION	
Exposure control	The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
Derived No Effect Level (DNEL)	
Personal protective equipment:	
Respiratory	Not required
Body Protection	Not required
Eye	 <p>During production stage only: Tightly sealed goggles</p>
Hand	 <p>Handle with gloves. The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.</p> <p>Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.</p> <p>Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation</p> <p><i>Material of gloves</i></p> <p>The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material cannot be calculated in advance and has therefore to be checked prior to the application.</p> <p><i>Penetration time of glove material</i></p> <p>The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.</p>
Industrial hygiene	Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin.
Other information	Not known



9. PHYSICAL & CHEMICAL PROPERTIES	
Physical form	Liquid (with typical hypochlorite odor)
Flash point	≥ 158° F (70° C) P.M. closed cup
Volatile Organic Content	Practically 0 (% V.O.C.)
pH	11.5 max


10. STABILITY AND REACTIVITY	
Stability	Stable under ambient conditions. Extrapolated shelf life is at least 12 months in the original container.
Reactivity:	
Conditions to avoid	No further relevant information available.
Materials to avoid	Acids and reducing agents
Hazardous decomposition products	Possible liberation of negligible quantities of chlorine

11. TOXICOLOGICAL INFORMATION	
Acute toxicity:	Based on available data, the classification criteria are not met
Skin corrosion/irritation	Causes severe skin burns and eye damage
Serious eye damage/eye irritation	Causes serious eye damage
Respiratory or Skin Sensitization	Under extreme circumstances might cause slight respiratory irritation.
Reproductive toxicity	Based on available data, the classification criteria are not met.

12. ECOLOGICAL INFORMATION	
Environmental fate and distribution:	
Aquatic Toxicity	No further relevant information available
Terrestrial Environment	No further relevant information available
Persistence and degradation	Readily biodegradable
General notes	Must not reach sewage water or drainage ditch undiluted or un-neutralized

13. DISPOSAL CONSIDERATIONS	
Waste treatment method	Must not be disposed together with household garbage. Do not allow product to reach sewage system
Un-cleaned packaging Recommendation	Disposal must be made according to official regulations

14. TRANSPORT INFORMATION	
ADR/RID	Class: 8 Corrosive substances. UN - Number: 1814 Packaging group: II Hazard label: 8 Excepted quantities: E2 Tunnel restriction code: E CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)
IMDG	Class: 8 UN Number: 1814 Label: 8 Packaging group: II EMS Number: F-A, S-B . Marine pollutant: No Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)
ICAO/IATA	Class: 8 . UN/ID Number: 1814 Label: 8 . Packaging group: II Proper shipping name: CAUSTIC ALKALI LIQUID, N.O.S. (POTASSIUM HYDROXIDE)

15. REGULATORY INFORMATION	
HAZARD CLASS:	 <p>SKIN CORROSION cat. 1B EYE DAMAGE cat. 1</p>
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P-Codes	P101	If medical advice is needed, have product container or label at hand.
	P102	Keep out of reach of children
	P103	Read label before use.
	P260	Do not breath mists
	P280	Wear protective gloves/protective clothing/eye protection/face protection
	P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
	P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
	P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
	P310	Immediately call a POISON CENTER/doctor
	P405	Store locked up
	P363	Wash contaminated clothing before reuse.
	P301 + P330 +P331	If swallowed rinse mouth. DO NOT induce vomiting.
	P501	Dispose of contents/ container to an approved waste disposal plant.

16. OTHER INFORMATION

All the information supplied in this data sheet is based on the current knowledge available to ECO RAD at the time of revision, and is offered in good faith. For further information or clarification of data and any relevant information available on the product and the safety of handling it, please contact ECO RAD directly. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no way shall ECO RAD be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if the company has been advised of the possibility of such damages.