

RealChem Northwest Material Safety Data Sheet

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME: RealChem 210

PRODUCT NUMBER:

MSDS NUMBER: MSDS-00028

UPC#: N/A

DATE PREPARED: 4/25/97

LAST REVISION: 1/7/98

2. COMPOSITION/ INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS#	OSHA PEL	ACGIH TLV TLV=2mg/M3 CEILING	WEIGHT%
POTASSIUM HYDROXIDE	1310583	N/A	N/A	<25
1-HYDOXYETHYLIDENE-1, 1-DIPHOSPHONIC ACID	2809214	N/A	N/A	<9

3. HAZARDOUS IDENTIFICATION

EMERGENCY OVERVIEW:
CORROSIVE!

POTENTIAL HEALTH EFFECTS

EYE CONTACT: Vapors, liquid and mists are extremely corrosive to the eyes. Brief contact of the liquid or mists will severely damage the eyes and prolonged contact may cause permanent eye injury which may be followed by blindness.

INHALATION: Vapors, liquid and mists are extremely corrosive to the nose, throat and mucus membranes. Bronchitis, pulmonary edema, and chemical pneumonitis may occur. Irritation, coughing, chest pain and difficulty in breathing may occur with brief exposure, while prolonged exposure may result in more severe irritation and tissue damage. Breathing high concentrations may result in death.

INGESTION: Vapors, liquid and mists are extremely corrosive to the mouth and throat. Swallowing the liquid burns the tissues, causes sever abdominal pain, nausea, vomiting and collapse. Swallowing large quantities can cause death.

SKIN CONTACT: Vapors, liquid and mists are extremely corrosive to the skin. Vapors will severely irritate the skin, and liquid and mists will severely burn the skin. Prolonged skin contact will burn or destroy surrounding tissue and death may accompany burns which extend over large portions of the body. A latent period may exist between exposure and sense of irritation.

SIGNS AND SYMTOMS OF EXPOSURE:
Irritation, pain, coughing, redness of skin.

4. FIRST AID MEASURES

- EYE CONTACT:** Immediately flush eyes with water for at least 15 minutes. Hold eyelids open while flushing the eyes. Get medical attention.
- INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.
- INGESTION:** If swallowed, do NOT induce vomiting. Give victim lots of water or milk. Get medical attention immediately. Never give anything by mouth to an unconscious or convulsing person.
- SKIN CONTACT:** Wash with soap and water. Change contaminated clothing. Get medical attention if irritation develops or persists.
- AGGRAVATED MEDICAL CONDITIONS:**
Pre-existing eye, skin or respiratory conditions.

SUPPLEMENTAL HEALTH INFORMATION:

The effects of long-term, low-level exposure to this product have not been determined. Safe handling of this material on a long-term basis should emphasize the avoidance of all effects from repetitive acute exposures.

5. FIRE FIGHTING MEASURES

FLAMMABLE PROPERTIES

- FLASH POINT:** None **FLASH POINT METHOD USED:** N/A
- AUTOIGNITION:** N/A **LEL:** **UEL:**
- EXTINGUISHING MEDIA:**
Use extinguishing media appropriate for surrounding fire.

SPECIAL FIRE FIGHTING PROCEDURES:

Firefighters should wear proper protective equipment and self-contained breathing apparatus with full face piece in positive pressure mode. Move containers from fire area if it can be done without risk. Use water to keep fire-exposed containers cool.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

None known.

COMBUSTION PRODUCTS:

Potassium oxide, carbon dioxide, phosphines.

6. ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS SPILLED OR RELEASED:

Small spills: Mop up, wipe up or soak up immediately. Remove to out of doors. Large spills: Evacuate area. Contain liquid; transfer to closed poly containers. Keep out of water supply.

7. HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:

Protect from freezing. Follow all MSDS/ label precautions even after container is emptied because it may retain product residues.

OTHER PRECAUTIONS:

For industrial use only. Keep away from children. Keep containers closed while not in use.

8. EXPOSURE CONTROL/ PERSONAL PROTECTION

PERSONAL PROTECTIVE EQUIPMENT

- RESPIRATORY PROTECTION:** Wear a NIOSH/MSHA approved respirator appropriate for vapor concentration at point of use.
- VENTILATION:** Local exhaust sufficient to keep exposure below TLV.
- WORK/ HYGENIC PRACTICES:** Use good personal hygiene when handling this product. Wash hands after use, before smoking, or using a toilet.
- PROTECTIVE GLOVES:** Rubber or other impervious material with gauntlets.
- EYE PROTECTION:** Use chemical safety goggles and/ or full face shield where splashing is possible. Contact lenses should not be worn when working with this material. Maintain eye wash fountain and quick-drench facilities in work areas.
- OTHER PROTECTIVE EQUIP:** Alkali resistant slicker in work areas.
- ENGINEERING CONTROLS:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
- EXPOSURE GUIDELINGS:** N/A

9. PHYSICAL AND CHEMICAL PROPERTIES

- PHYSICAL STATE:** Liquid
- APPEARANCE AND ODOR:** Clear, colorless to straw yellow liquid. No odor.
- SOLUALBILITY IN WATER:** Complete
- | | |
|---------------------------------|-------------------------------|
| BOILING POINT: 222 deg F | PH: >12 |
| VAPOR PRESSURE: N/A | VAPOR DENSITY: N/A |
| SPECIFIC GRAVITY: 1.19 | POUNDS PER GALLON: 9.9 |
| MELTING POINT: N/A | OTHER PROPERTIES: N/A |

10. STABILITY AND REACTIVITY

STABLE: Stable

CONDITIONS TO AVOID:

None known.

INCOMPATIBILITY:

Acids and medals such as zinc, aluminum and tin.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

Potassium oxide, carbon dioxide, phosphines.

HAZARDOUS POLYMERIZATION: Will Not Occur

CONDITIONS TO AVOID:

None

11. TOXICOLOGICAL INFORMATION

N/A

12. ECOLOGICAL INFORMATION

N/A

13. DISPOSAL CONSIDERATIONS

Dilute with large amounts of water, neutralize with dilute acid, and dispose to municipal or industrial waste treatment facility in accordance with applicable regulations.

14. TRANSPORT INFORMATION

DOT CLASS: Corrosive Liquid, Basic, Inorganic n.o.s. (Potassium Hydroxide)
HAZARD CLASS: 8
UN NUMBER: UN3266
PACKING GROUP: II
GUIDE NUMBER: 154
PROPER SHIPPING NAME: Corrosive Liquid, Basic, Inorganic n.o.s. (Potassium Hydroxide)

15. REGULATORY INFORMATION

Authorized by USDA for use in Federally inspected meat and poultry plants.

16. OTHER INFORMATION

HMS INFORMATION: HEALTH: 3 FLAMMABILITY: 0 REACTIVE: 1 PROTECTIVE: H
NFPA INFORMATION: TOXICITY: 3 FIRE: 0 REACTIVITY: 1 SPECIAL: C

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