

72-62-7920-01  
**MATERIAL SAFETY  
 DATA SHEET**

**Ashland Chemical Company**  
 DIVISION OF ASHLAND OIL INC.  
 P. O. BOX 2219, COLUMBUS, OHIO 43216 • (614) 889-3333  
 24-HOUR EMERGENCY TELEPHONE (606) 324-1133



000041 CAUSTIC POTASH 45% LIQUID  
 THIS MSDS COMPLIES WITH 29 CFR 1910.1200 (THE HAZARD COMMUNICATION STANDARD)

PRODUCT NAME: CAUSTIC POTASH 45% LIQUID  
 CAS NUMBER: 1310-58-3

05 86 071 412557-484  
 DATA SHEET NO: 0000717-002  
 LATEST REVISION DATE: 03/86-86063  
 PRODUCT:  
 INVOICE: REGST  
 INVOICE DATE: 07/14/86  
 TO:

HAYS REPUBLIC  
 ATTN: FRANK LESENER  
 225 N. ROESKE AVE.  
 MICHIGAN CITY, IN 46360

SECTION I-PRODUCT IDENTIFICATION

GENERAL OR GENERIC ID: ALKALI  
 DOT HAZARD CLASSIFICATION: CORROSIVE MATERIAL (173.240)

SECTION II-COMPONENTS

| INGREDIENT                              | % (BY WT) | PEL | TLV               | NOTE  |
|---|-----------|-----|-------------------|-------|
| POTASSIUM HYDROXIDE<br>CAS #: 1310-58-3 | 45        |     | 2 MG/M3 - CEILING | ( 1 ) |

( 1 ): PEL NOT ESTABLISHED FOR THIS MATERIAL

SECTION III-PHYSICAL DATA

| PROPERTY               | REFINEMENT     | MEASUREMENT                                 |
|------------------------|----------------|---|
| BOILING POINT          | FOR PRODUCT    | 271.00 DEG F<br>132.77 DEG C<br>760.00 MMHG |
| VAPOR PRESSURE         | FOR PRODUCT    | 2.00 MMHG<br>68.00 DEG F<br>20.00 DEG C     |
| SPECIFIC VAPOR DENSITY | NOT APPLICABLE |   |
| SPECIFIC GRAVITY       |                | 1.450<br>68.00 DEG F<br>20.00 DEG C         |
| PERCENT VOLATILES      | NOT APPLICABLE |   |
| EVAPORATION RATE       | NOT APPLICABLE |   |

SECTION IV-FIRE AND EXPLOSION INFORMATION

FLASH POINT NOT APPLICABLE  
 EXPLOSIVE LIMIT NOT APPLICABLE  
 EXTINGUISHING MEDIA: WATER FOG  
 FIREFIGHTING PROCEDURES: WATER MAY BE USED TO KEEP FIRE-EXPOSED CONTAINERS COOL UNTIL FIRE IS OUT.

WEAR SELF-CONTAINED BREATHING APPARATUS WITH A FULL FACEPIECE OPERATED IN PRESSURE-DEMAND OR OTHER POSITIVE PRESSURE MODE WHEN FIGHTING FIRES.  
 SPECIAL FIRE & EXPLOSION HAZARDS: CAN REACT WITH CHEMICALLY REACTIVE METALS SUCH AS ALUMINUM, ZINC, MAGNESIUM, COPPER ETC. TO RELEASE HYDROGEN GAS WHICH CAN FORM EXPLOSIVE MIXTURES WITH AIR.

NFPA CODES: HEALTH- 3 FLAMMABILITY- 0 REACTIVITY- 1

SECTION V-HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE 2 MG/M3 - CEILING

SEE SECTION II  
 EFFECTS OF ACUTE OVEREXPOSURE: FOR PRODUCT

EYES - CAUSES SEVERE DAMAGE AND EVEN BLINDNESS VERY RAPIDLY.  
 SKIN - CAUSES BURNS, POSSIBLE DEEP ULCERATION.  
 BREATHING - OF MIST OR DUST CAN CAUSE DAMAGE TO NASAL AND RESPIRATORY PASSAGES.  
 SWALLOWING - RESULTS IN SEVERE DAMAGE TO MUCOUS MEMBRANES AND DEEP TISSUES, CAN RESULT IN DEATH ON PENETRATION TO VITAL AREAS.

FIRST AID:

IF ON SKIN: IMMEDIATELY FLUSH EXPOSED AREA WITH WATER FOR AT LEAST 15 MINUTES, GET MEDICAL ATTENTION. REMOVE CONTAMINATED CLOTHING. LAUNDRY CONTAMINATED CLOTHING BEFORE RE-USE.

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SECTION V-HEALTH HAZARD DATA (CONTINUED)  
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IF IN EYES: IMMEDIATELY FLUSH WITH LARGE AMOUNTS OF WATER FOR AT LEAST 15 MINUTES, LIFTING UPPER AND LOWER LIDS OCCASIONALLY. GET IMMEDIATE MEDICAL ATTENTION. IF PHYSICIAN IS NOT IMMEDIATELY AVAILABLE, CONTINUE FLUSHING WITH WATER.

IF SWALLOWED: DO NOT INDUCE VOMITING. VOMITING WILL CAUSE FURTHER DAMAGE TO THE THROAT. DILUTE BY GIVING WATER. GIVE MILK OF MAGNESIA. KEEP WARM, QUIET. GET MEDICAL ATTENTION IMMEDIATELY.

IF BREATHED: IF AFFECTED, REMOVE INDIVIDUAL TO FRESH AIR. IF BREATHING IS DIFFICULT, ADMINISTER OXYGEN. IF BREATHING HAS STOPPED GIVE ARTIFICIAL RESPIRATION. KEEP PERSON WARM, QUIET AND GET MEDICAL ATTENTION.

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SECTION VI-REACTIVITY DATA  
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HAZARDOUS POLYMERIZATION: CANNOT OCCUR

STABILITY: STABLE

INCOMPATIBILITY: AVOID CONTACT WITH: STRONG MINERAL ACIDS, ORGANIC MATERIALS, REACTIVE METALS SUCH AS ALUMINUM AND MAGNESIUM, ORGANIC MATERIALS, STRONG ORGANIC ACIDS, COPPER

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SECTION VII-SPILL OR LEAK PROCEDURES  
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STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
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SMALL SPILL: NEUTRALIZE AND MOP UP SOLUTION.

LARGE SPILL: PERSONS NOT WEARING PROTECTIVE EQUIPMENT SHOULD BE EXCLUDED FROM AREA OF SPILL UNTIL CLEAN-UP IS COMPLETED. STOP SPILL AT SOURCE. DIKE TO PREVENT SPREADING. PUMP TO SALVAGE TANK.

WASTE DISPOSAL METHOD:  
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SMALL SPILL: NEUTRALIZE WITH 6M-HYDROCHLORIC ACID AND FLUSH DOWN DRAIN WITH EXCESS WATER IN ACCORDANCE WITH APPLICABLE REGULATIONS.

LARGE SPILL: POUR INTO A LARGE TANK OF WATER AND NEUTRALIZE. FLUSH TO DRAIN WITH LARGE EXCESS OF WATER IN ACCORDANCE WITH APPLICABLE REGULATIONS.

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SECTION VIII-PROTECTIVE EQUIPMENT TO BE USED  
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RESPIRATORY PROTECTION: IF TLV OF THE PRODUCT OR ANY COMPONENT IS EXCEEDED, A NIOSH/MSHA JOINTLY APPROVED AIR SUPPLIED RESPIRATOR IS ADVISED IN ABSENCE OF PROPER ENVIRONMENTAL CONTROL. OSHA REGULATIONS ALSO PERMIT OTHER NIOSH/MSHA RESPIRATORS UNDER SPECIFIED CONDITIONS. (SEE YOUR SAFETY EQUIPMENT SUPPLIER), ENGINEERING OR ADMINISTRATIVE CONTROLS SHOULD BE IMPLEMENTED TO REDUCE EXPOSURE.

VENTILATION: PROVIDE SUFFICIENT MECHANICAL (GENERAL AND/OR LOCAL EXHAUST) VENTILATION TO MAINTAIN EXPOSURE BELOW TLV(S).

PROTECTIVE GLOVES: WEAR RESISTANT GLOVES SUCH AS: NATURAL RUBBER, NEOPRENE, POLYVINYL CHLORIDE, POLYVINYL ALCOHOL

EYE PROTECTION: CHEMICAL SPLASH GOGGLES AND FACE SHIELD (8" MIN.) IN COMPLIANCE WITH OSHA REGULATIONS ARE ADVISED; HOWEVER, OSHA REGULATIONS ALSO PERMIT OTHER TYPE SAFETY GLASSES. (CONSULT YOUR SAFETY EQUIPMENT SUPPLIER)

OTHER PROTECTIVE EQUIPMENT: TO PREVENT SKIN CONTACT, WEAR IMPERVIOUS CLOTHING AND BOOTS.

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SECTION IX-SPECIAL PRECAUTIONS OR OTHER COMMENTS  
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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.

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.