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MATERIAL SAFETY DATA SHEET

KWIKHEAT

DATE PREPARED: JANUARY 1996

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1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

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PRODUCT NAME	PRODUCT CODES
KWIK HEAT	CATALOG # 211
KWIK-HEAT(TM) PERINEAL HOT PACK	CATALOG # 11501-010
VHA KWIK-HEAT(TM) PERINEAL HOT PACK	CATALOG # V11501-010
INSTANT HOT PACK, SMALL	CATALOG # 11443-512
INSTANT HOT PACK, MEDIUM	CATALOG # 11450-040
VHA INSTANT HOT PACK, MEDIUM	CATALOG # V11450-040
INSTANT HOT PACK, LARGE	CATALOG # 11443-012
VHA INSTANT HOT PACK, LARGE	CATALOG # V11443-012
JACK FROST INSULATED INSTANT HOT PACK	CATALOG # 30104
NOVA+ INSULATED HOT PACK	CATALOG # V30104

USER CODE/IDENTIFICATION:

DESCRIPTION: A CHEMICAL MIXTURE.

PRODUCT USE: PACK USED FOR TEMPORARY TEMPERATURE MAINTENANCE.

MANUFACTURER:
CARDINAL HEALTH
1500 WAUKEGAN ROAD
MCGAW PARK, IL 60085
USA

TELEPHONE: 1-800-964-5227 (CUSTOMER SERVICE 8 AM-4:30 PM; CST M-F)

FOR EMERGENCY INFORMATION CONTACT:
CHEMTREC: 1-800-424-9300

2. COMPOSITION/INFORMATION ON INGREDIENTS



"ACCORDING TO THE OSHA HAZARD COMMUNICATION STANDARD, 29 CFR 1910.1200, THIS PRODUCT CONTAINS NO HAZARDOUS INGREDIENTS."

COMPONENT (SYNONYM)	CAS NO.	EXPOSURE LIMIT*
SODIUM THIOSULFATE PENTAHYDRATE	10102-17-7	NONE
DEXTROSE MONOHYDRATE	50-99-7	NONE
WATER	7732-18-5	NONE

*LIMIT ESTABLISHED BY ACGIH AND NIOSH.

3. HAZARDS IDENTIFICATION



EMERGENCY OVERVIEW:

NONVOLATILE, NONFLAMMABLE MIXTURE IN WATER PACKAGED IN SMALL QUANTITIES.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT: MAY BE A SLIGHT IRRITANT.

INGESTION: NOT HAZARDOUS BY INGESTION IN SMALL QUANTITIES

INHALATION:

INHALATION NOT LIKELY UNDER NORMAL USE CONDITIONS. ASPIRATION HAZARD LIKE THAT OF WATER.

SKIN ABSORPTION: PRESENTS NO HAZARD IF ABSORBED.

SKIN CONTACT: SLIGHT IRRITANT TO NONIRRITANT.

CARCINOGEN STATUS:

OSHA: NOT LISTED.

NTP: NOT LISTED.

IARC: NOT LISTED.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

NOT APPLICABLE FROM ACCIDENTAL EXPOSURE.

4. FIRST AID MEASURES

EYE CONTACT: RINSE WITH WATER OR NORMAL SALINE.

INGESTION: NOT HARMFUL IF ACCIDENTALLY INGESTED IN SMALL QUANTITIES.

INHALATION: NONVOLATILE LIQUID. TREAT FOR ASPIRATION OF WATER.

SKIN CONTACT:

NONHAZARDOUS. WASH AFFECTED AREA WITH SOAP OR MILD DETERGENT AND WATER. REMOVE AND LAUNDRY OR CLEAN CONTAMINATED CLOTHING AND SHOES.

5. FIRE FIGHTING MEASURES

NONFLAMMABLE SOLUTION.

6. ACCIDENTAL RELEASE MEASURES

SMALL SPILLS CAN BE TAKEN UP WITH AN ABSORBENT AND PLACED IN CLEAN DRY CONTAINERS FOR LATER DISPOSAL.

THIS PRODUCT IS A NONHAZARDOUS WASTE WHEN SPILLED OR DISPOSED OF, AS DEFINED IN RESOURCE CONSERVATION RECOVERY ACT (RCRA) REGULATIONS (40 CFR 261).

7. HANDLING AND STORAGE

STORE UNDER THE FOLLOWING CONDITIONS:

STORE AT ROOM TEMPERATURE (NOT TO EXCEED 104 DEG. F/40 DEG. C). PROTECT FROM FREEZING.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

CLOTHING: N/A

EYE PROTECTION: N/A

GLOVES: N/A

RESPIRATORY PROTECTION: NO PROTECTION NEEDED UNDER NORMAL USE CONDITIONS.

SKIN PROTECTION: NO SKIN PROTECTION NEEDED UNDER NORMAL USE CONDITIONS.

VENTILATION: NO VENTILATION SHOULD BE REQUIRED UNDER NORMAL CONDITIONS OF USE.

EXPOSURE GUIDELINES OR LIMITS:

NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY ACGIH OR NIOSH.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE: CLEAR TO OFF WHITE LIQUID.

BOILING POINT: NOT ESTABLISHED.

FREEZING POINT: NOT ESTABLISHED.

VAPOR PRESSURE: NOT ESTABLISHED.

SPECIFIC GRAVITY: NOT ESTABLISHED.

SOLUBILITY IN WATER: SOLUBLE.

pH: NOT ESTABLISHED.

10. STABILITY AND REACTIVITY



HAZARDOUS POLYMERIZATION:
NOT REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES.

INCOMPATIBILITIES (SPECIFIC MATERIALS TO AVOID):
ACIDS, NITRATE SALTS, OXIDIZING AGENTS, CHLORINE.

DECOMPOSITION PRODUCTS:
THERMAL DECOMPOSITION MAY RELEASE TOXIC AND/OR HAZARDOUS GASES.

11. TOXICOLOGICAL INFORMATION



SEE WARNING STATEMENTS ON PACKAGE LABEL. ADVERSE AND OVERDOSE EFFECTS IN HUMANS:
THE FOLLOWING SIDE/ADVERSE EFFECTS HAVE BEEN SELECTED ON THE BASIS OF THEIR POTENTIAL CLINICAL SIGNIFICANCE AND ARE NOT NECESSARILY INCLUSIVE.

GET MEDICAL ATTENTION:

MULTIPLE UNITS INGESTED.

MAY REQUIRE MEDICAL ATTENTION IF BOTHERSOME

EXTENSIVE AND PROLONGED EYE OR SKIN CONTACT LEADS TO PERSISTENT IRRITATION.
INGESTION OF LARGE QUANTITIES LEADS TO PROLONGED DIARRHEA.

12. ECOLOGICAL INFORMATION



ENVIRONMENTAL IMPACT RATING (0-4): NO DATA

ACUTE AQUATIC TOXICITY: NO DATA

DEGRADABILITY: YES

LOG BIOCONCENTRATIONS FACTOR: DATA NOT AVAILABLE

LOG OCTANOL/WATER PARTITION COEFFICIENT: NO DATA

13. DISPOSAL CONSIDERATIONS

REPROCESS OR BURN IN AN APPROVED INCINERATOR.

WASTE MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. PLEASE BE ADVISED, HOWEVER, THAT STATE AND LOCAL REQUIREMENTS FOR WASTE DISPOSAL MAY BE MORE RESTRICTIVE OR OTHERWISE DIFFERENT FROM FEDERAL REGULATIONS.

14. TRANSPORT INFORMATION

DOT HAZARDOUS MATERIAL REGULATIONS DO NOT APPLY TO THIS PRODUCT.

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION:

DOT SHIPPING NAME: NOT APPLICABLE.

DOT HAZARD CLASS: NOT APPLICABLE.

UN/NA NUMBER: NOT APPLICABLE.

PRODUCT RQ (LBS): NOT APPLICABLE.

DOT LABEL: NOT APPLICABLE.

DOT PLACARD: NOT APPLICABLE.

FREIGHT CLASS BULK: NOT APPLICABLE.

FREIGHT CLASS PACKAGE: NOT APPLICABLE.

PRODUCT LABEL: NOT APPLICABLE.

15. REGULATORY INFORMATION

FEDERAL REGULATORY INFORMATION:

CERCLA SECTION 103 (40 CFR 302.4), REPORTABLE QUANTITY: NON-APPLICABLE.

CERCLA/SUPERFUND (40 CFR 117.302): NON-APPLICABLE.

OSHA PROCESS SAFETY (29 CFR 1910.119): NON-APPLICABLE.

RCRA STATUS:

IF DISCARDED IN ITS PURCHASED FORM, THIS PRODUCT WOULD NOT BE A HAZARDOUS WASTE EITHER BY LISTING OR BY CHARACTERISTIC. HOWEVER, UNDER RCRA, IT IS THE RESPONSIBILITY OF THE PRODUCT USER TO DETERMINE AT THE TIME OF DISPOSAL, WHETHER A MATERIAL CONTAINING THE PRODUCT OR DERIVED FROM THE PRODUCT SHOULD BE CLASSIFIED AS A HAZARDOUS WASTE. (40 CFR 261.20-24).

SARA SECTION 302 (40 CFR 355.30), EXTREMELY HAZARDOUS SUBSTANCES.: NON-APPLICABLE.

SARA SECTION 304 (40 CFR 355.40).: NON-APPLICABLE.

SARA HAZARD CATEGORIES, TITLE III SECTIONS 311 AND 312 (40 CFR 370.21):

ACUTE HAZARD: NO

CHRONIC HAZARD: NO

FIRE HAZARD: NO

REACTIVITY HAZARD: NO

SUDDEN RELEASE HAZARD: NO

SARA SECTION 313 (40 CFR 372.65). TOXIC CHEMICALS: NON-APPLICABLE

TSCA STATUS: LISTED

STATE REGULATORY INFORMATION:

CALIFORNIA PROPOSITION 65: NOT ON LIST

OTHER STATES: MAY BE MORE RESTRICTIVE OR OTHERWISE DIFFERENT.

16. OTHER INFORMATION



ABBREVIATIONS:

CERCLA:
COMPREHENSIVE ENVIRONMENTAL RESPONSE, COMPENSATION AND LIABILITY ACT.
ADMINISTERED BY EPA.

IARC: INTERNATIONAL AGENCY FOR RESEARCH ON CANCER.

NTP: NATIONAL TOXICOLOGY PROGRAM.

OSHA:
OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, US DEPARTMENT OF LABOR WHICH
REGULATES WORKPLACE CONDITIONS.

RCRA: RESOURCE CONSERVATION AND RECOVERY ACT. ADMINISTERED BY EPA.

SARA:
SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986. TITLE III IS ALSO KNOWN
AS THE EMERGENCY PLANNING AND COMMUNITY RIGHT-TO-KNOW ACT. ADMINISTERED BY
EPA.

TSCA: TOXIC SUBSTANCES CONTROL ACT.

CARDINAL HEALTH DISCLAIMER:

NEITHER CARDINAL HEALTH NOR ANY OF ITS AFFILIATES OR SUBSIDIARIES ASSUMES ANY
LEGAL RESPONSIBILITY FOR USE OR RELIANCE UPON THIS INFORMATION. FINAL
DETERMINATION OF SUITABILITY OF ANY MATERIAL FOR A PARTICULAR USE IS THE SOLE
RESPONSIBILITY OF THE USER. ALL MATERIALS MAY PRESENT UNKNOWN HAZARDS AND
SHOULD BE USED WITH CAUTION. ALTHOUGH CERTAIN HAZARDS ARE DESCRIBED HEREIN, WE
CANNOT GUARANTEE THAT THESE ARE THE ONLY HAZARDS WHICH EXIST. IT IS THE USER'S
RESPONSIBILITY TO DETERMINE THE APPROPRIATE HANDLING, DISPOSAL OR OPEN
DISPOSITION FOR THE MATERIAL OR EMERGENCY RESPONSE ACTIONS IN LIGHT OF THE
CONDITION OF THE MATERIAL, APPLICABLE REGULATIONS AND OTHER CIRCUMSTANCES.