

DATE PREPARED: JANUARY 1998
DATE REVISED: 4/13/00

KWIK KOLD REGULAR/OTHER COLD PRODUCTS

MATERIAL SAFETY DATA SHEET

----- 1. CHEMICAL PRODUCT ADD COMPANY IDENTIFICATION -----

PRODUCT NAME: PRODUCT CODES:

KWIK-KOLD(TM) KIT
CATALOG # 101

KWIK-KOLD(TM)BULK
CATALOG # 103B

KWIK-KOLD(TM) REGULAR BULK
CATALOG # 107

KWIK-KOLD(TM) REGULAR BULK
CATALOG # 112

RESPOND INSTANT ICE
CATALOG # R1131

INSTANT COLD LARGE
CATALOG # 11440-012

INSTANT COLD SMALL
CATALOG # 11440-512

VHA INSTANT COLD SMALL
CATALOG # V1 1440-512

INSTANT COLD MEDIUM
CATALOG # 11445-020

VHA INSTANT COLD MEDIUM
CATALOG # V11445-020

TIMEM1ST COLD PACK
CATALOG # 55024

INSTANT ICE COLD PACK
CATALOG # 11440-900

RESPOND JR. INSTANT ICE
CATALOG # R1121

PORTA SAMPLE COLD PACK
CATALOG # 30635-611

VHA INSTANT COLD LARGE
CATALOG # V11440-012

JACK FROST 6"X8,75" DISPOSABLE INSTANT COLD PACK #10102

JACK FROST 6"X8.75" DISPOSABLE INSTANT COLD PACK #10104

JACK FROST 6"X8.75" DISPOSABLE INSTANT COLD PACK #10116

JACK FROST 4-5"X5,5" DISPOSABLE INSTANT COLD PACK #10407

JACK FROST 4.5"X5.5" DISPOSABLE INSTANT COLD PACK #10424

JACK FROST 4.5"TX5 511 DISPOSABLE INSTANT COLD PACK #10450

JACK FROST INSTANT WRAP W/203 COLD PACK
#110301

ZIMMER 4"X6" INSULATED COLD PACK #1610-014

ZIMMER 5"XS" INSULATED COLD PACK #1610-015

JACK FROST 6"X8.75" REUSABLE INSULATED COLD PACK #20102

JACK FROST 6"XU.75" REUSABLE INSULATED COLD PACK #20104

JACK FROST 6"X8.75" REUSABLE INSULATED COLD PACK #20116

JACK FROST 4.5'X7" REUSABLE INSULATED COLD PACK #20202

JACK FROST 4-5"X7" REUSABLE INSULATED COLD PACK #20204

JACK FROST 5.5"X7" REUSABLE INSULATED COLD PACK #20210

JACK FROST 4.5"X7" REUSABLE INSULATED COLD PACK #20224

JACK FROST 4.5"X7" REUSABLE INSULATED COLD BACK #20232

JACK FROST 4.5"X9.5" REUSABLE INSULATED COLD PACK #20302

JACK FROST 4.5"X9.5" REUSABLE INSULATED COLD PACK #20304

JACK FROST 4.5'X9.51' REUSABLE INSULATED COLD PACK #20316

TIDI 6"X8.75" REUSABLE INSULATED COLD PACK #2104 TIDI

TIDI 6"X8.75" DISPOSABLE INSTANT COLD PACK #1104 TIDI

GRAHAM FIELD DISPOSABLE INSTANT COLD PACK
#GF9100

GRAHAM FIELD 5"X5.5" DISPOSABLE INSTANT COLD PACK #GF9102

GRAHAM FIELD 5"X5.5" DISPOSABLE INSTANT COLD PACK #GF9103

NOVARTIS 6"XV.75" REUSABLE INSULATED INSTANT COLD PACK
#020104

FAULTLESS COLD PACK
#94-00054

FAULTLESS TENDER COOL PERINEAL PACK
#94-00055

DESCRIPTION * WATERPROOF PACKAGE CONTAINING SMALL WHITE AMMONIUM NITRATE PELLETS
SURROUNDING * SMALL RUPTURABLE PLASTIC BAG FILLED WITH WATER~ WHEN THE TMTER AND
PELLETS MIX, THE LIQUID BECOMES COLD.

PRODUCT USE: PACK USED FOR TEMPORARY TEMPERATURE MAINTENANCE.

USER CODE/IDENTIFICATION:

MANUFACTURER:
ALLEGIANCE HEALTHCARE
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:

3E COMPANY 1-800-451-8346

----- 2. COMPOSITION/INFORMATION ON INGREDIENTS -----

COMPONENT (SYNONYM)	CAS NO	PERCENTAGE (W/V)	EXPOSURE LIMIT*
WATER	7732-1B-5	60	NONE
AMMONIUM NITRATE	6484-52-2	40	NONE

*LIMIT ESTABLISHED BY ACGIH OR OSHA.

----- 3. HAZARDS IDENTIFICATION -----

AGENCY OVERVIEW

INSTANT COLD UPON MIXING OF COMPONENTS/INGREDIENTS.

IF PACKAGING IS BROKEN, DIRECT CONTACT WITH SOLUTION MAY BE IRRITATING TO THE SKIN, EYES, THROAT, AND MUCOUS MEMBRANES. INGESTION MAY CAUSE VOMITING, STOMACH UPSET, AND GASTRITIS.

POTENTIAL HEALTH EFFECTS:

EYE CONTACT:

UNLIKELY UNDER NORMAL CONDITIONS OF HANDLING OR USAGE. DIRECT CONTACT WITH SOLUTION MAY BE IRRITATING TO THE SKIN.

INGESTION,

UNLIKELY UNDER NORMAL CONDITIONS OF HANDLING OR USAGE MAY CAUSE VOMITING,

STOMACH UPSET, GASTRITIS (STOMACH INFLAMMATION) , METABOLIC ACIDOSIS, DIURESIS (INCREASED URINATION), VASODILATATION, AND METHEMOGLOBINEMIA.

INHALATION: UNLIKELY UNDER NORMAL CONDITIONS OF HANDLING OR USAGE. INHALATION OF SOLUTION MAY HE IRRITATING TO MUCOUS MEMBRANES.

SKIN CONTACT: UNLIKELY UNDER NORMAL CONDITIONS OF HANDLING OR USAGE. DIRECT CONTACT WITH SOLUTION MAY BE IRRITATING TO THE SKIN.

CARCINOGEN STATUS

OSHA: NOT LISTED.

NTP: NOT LISTED,

IARC: NOT LISTED,

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: KIDNEY OR INTESTINAL DYSFUNCTION.

POTENTIAL PHYSICAL EFFECTS: AMMONIUM NITRATE PELLETS, PRIOR TO MIXING, MAY EXPLODE FROM HEAT OR CONTAMINATION, CAN ACCELERATE BURNING WHEN INVOLVED IN A FIRE, CAN REACT EXPLOSIVELY WITH HYDROCARBONS.

----- 4. FIRST AID MEASURES -----

EYE CONTACT: FLUSH WITH LARGE AMOUNT OF WATER FOR AT LEAST 15 MINUTES. IF REDNESS OR IRRITATION OCCURS, SEEK MEDICAL ATTENTION.

INGESTION: SEEK MEDICAL ATTENTION. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF PATIENT IS ALERT, DILUTE WITH 4 TO 8 OUNCES OF WATER OR MILK. SINCE AMMONIUM NITRATE HAS SOME IRRITATIVE EFFECTS ON THE GASTROINTESTINAL TRACT, REMOVING THE MATERIAL IMMEDIATELY BY GASTRIC LAVAGE MAY BE PREFERABLE TO INDUCING VOMITING WITH SYRUP OF IPECAC, WHICH OFTEN TAKES AT LEAST 20 MINUTES TO ACT.

INHALATION: NONVOLATILE LIQUID. REMOVE PERSON TO FRESH AIR. IF BREATHING IS DIFFICULT, GIVE OXYGEN AND GET MEDICAL ATTENTION. IF PERSON IS NOT BREATHING, ADMINISTER ARTIFICIAL RESPIRATION OR CPR AND GET MEDICAL ATTENTION.

SKIN CONTACT'

REMOVE CONTAMINATED CLOTHING, WASH THE AFFECTED AREA WITH MILD DETERGENT AND WATER~ FLUSH AREA WITH WATER FOR AT LEAST 15 MINUTES~ IF REDNESS OR IRRITATION OCCURS, SEEK MEDICAL ATTENTION,

----- 5. FIRE FIGHTING MEASURES -----

NONFLAMMABLE SOLUTION. AMMONIUM NITRATE PELLETS, PRIOR TO MIXING, MAY EXPLODE FROM HEAT OR CONTAMINATION, CAN ACCELERATE BURNING WHEN INVOLVED IN A FIRE, CAN REACT EXPLOSIVELY WITH HYDROCARBONS.

----- 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 NON-HAZARDOUS 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 FREEZING.

--- 8~ EXPOSURE CONTROLS/PERSONAL PROTECTION -----

EYE PROTECTION IF WATERPROOF PACKAGING IS BROKEN, WEAR SAFETY GLASSES.

IF WATERPROOF PACKAGING IS BROKEN, USE LATEX OR OTHER IMPERVIOUS GLOVES~

RESPIRATORY PROTECTION: NO RESPIRATORY PROTECTION NEEDED UNDER NORMAL CONDITIONS OF HANDLING AND USE.

SKIN PROTECTION: NO SKIN PROTECTION NEEDED UNDER NORMAL CONDITIONS OF HANDLING AND USE.

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

EXPOSURE GUIDELINES OR LIMITS
NO OCCUPATIONAL EXPOSURE LIMITS ESTABLISHED BY ACGIH OR OSHA~

--- 9~ PHYSICAL AND CHEMICAL PROPERTIES -

APPEARANCE:
CLEAR TO OFF WHITE LIQUID PACKAGED IN A WATERPROOF CONTAINER~

BOILING POINT: NOT ESTABLISHED.

FREEZING POINT: NOT ESTABLISHED.

VAPOR PRESSURE: NOT ESTABLISHED.

SPECIFIC GRAVITY: NOT ESTABLISHED.

SOLUBILITY IN WATER
SOLUBLE~

PH: 3.0 (SOLUTION).

----- 10. STABILITY AND REACTIVITY

HAZARDOUS POLYMERIZATION:

NOT REPORTED TO OCCUR UNDER NORMAL TEMPERATURES AND PRESSURES-

REACTIVITY: YES, INSTANT COLD UPON MIXING OF INGREDIENTS. AMMONIUM NITRATE PELLETS, PRIOR TO MIXING, REACT VIOLENTLY WITH REDUCING AGENTS, STRONG ACIDS, POWDERED METALS, AND ORGANIC MATERIALS.

INCOMPATIBILITIES (SPECIFIC MATERIALS TO AVOID):
STRONG ACIDS, NITRATE SALTS, CHLORIDE SALTS, METAL SALTS, ALKALI METALS,
POWDERED METALS, HYDROCARBON OILS-

DECOMPOSITION PRODUCTS:

THERMAL DECOMPOSITION MAY RELEASE TOXIC AND/OR HAZARDOUS GASES. HIGHLY TOXIC OXIDES OF NITROGEN, INCLUDING AMMONIA ARE PRODUCED DURING COMBUSTION OF AMMONIUM NITRATE.

----- 11. TOXICOLOGICAL INFORMATION -----

ACUTE TOXICITY
THE FOLLOWING TOXICOLOGY INFORMATION IS FOR PURE AMMONIUM NITRATE

LD50 ORAL RAT: 4500 MG/KG

LD50 DERMAL, RABBIT: 3000 MG/KG

INHALATION, HUMAN: IRRITATING TO MUCOUS MEMBRANES

ORAL, LIVESTOCK: 400 MG/L TOXIC LIMIT

IRRITATING TO EYES, NOSE, AND THROAT, AND MUCOUS MEMBRANES
ACUTE EFFECTS

INHALATION:
UNLIKELY UNDER NORMAL CONDITIONS OF HANDLING OR USAGE. INHALATION OF SOLUTION
MAY BE IRRITATING TO MUCOUS MEMBRANES

INGESTION:
UNLIKELY UNDER NORMAL CONDITIONS OF HANDLING OR USAGE. MAY CAUSE VOMITING,
STOMACH UPSET, GASTRITIS (STOMACH INFLAMMATION), METABOLIC ACIDOSIS, DIURESIS
(INCREASED URINATION), VASODILATATION, AND METHEMOGLOBINEMIA

SKIN:
UNLIKELY UNDER NORMAL CONDITIONS OF HANDLING OR USAGE. DIRECT CONTACT WITH SOLUTION
MAY BE IRRITATING TO THE SKIN.

EYES: UNLIKELY UNDER NORMAL CONDITIONS OF HANDLING OR USAGE. DIRECT CONTACT WITH
SOLUTION MAY BE IRRITATING TO THE EYES.

CHRONIC EFFECTS

CARCINOGENIC EFFECTS OSHA: NOT LISTED. NTP: NOT LISTED~ IARC: NOT LISTED.

----- 12. ECOLOGICAL INFORMATION -----

ENVIRONMENTAL IMPACT RATING (0-4):
NO DATA

ACUTE AQUATIC TOXICITY:
NO DATA FOR CHEMICAL MIXTURE

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 (BOTH GROUND AND AIR TRANSPORTATION) DO APPLY TO THIS PRODUCT.

TRANSPORTATION AND HAZARDOUS MATERIALS DESCRIPTION:

DOT SHIPPING NAME: CONSUMER COMMODITY*

DOT HAZARD CLASS: ORM-D*

LTN/RA NUMBER: NOT APPLICABLE

PRODUCT RQ (LBS): NOT APPLICABLE

DOT LABEL: NOT APPLICABLE

DOT PLACARD: NOT APPLICABLE

PRODUCT LABEL: NOT APPLICABLE

*NOT AN ACCEPTABLE CLASSIFICATION WHEN USING IATA DANGEROUS GOODS REGULATIONS-

----- 15. REGULATORY INFORMATION -----

FEDERAL REGULATORY INFORMATION:

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

CERCLA/SUPERFUND (40 CFR 117.102)
NON-APPLICABLE

OSHA PROCESS SAFETY (29 CFR 1910.119)
NON-APPLICABLE

RCRA STATUS: IF DISCARDFD IN ITS USED 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 CONTAINED IN THE PRODUCT OR DERIVED FROM THE PRODUCT SHOULD BE CLASSIFIED AS A HAZARDOUS WASTE. IF DISCARDED IN ITS PURCHASED FORM, THIS

PRODUCT WOULD BE A HAZARDOUS WASTE BY CHARACTERISTIC.(40 CFR 261.20-24)

SARA SECTION 302 (40 CFR 355.30), EXTRE14ELY HAZARDOUS SU13STANCES NON-APPLICABLE

SARA SECTION .104 (40 CFR 355.4e))
NON APPLICABLE

SARA HAZARD CATEGORIES, TITLE III SECTIONS 311 AM 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
AMMONIUM NITRATE (SOLUTION)

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:

CFRCLA COMPREHENSIVE ENVIRONMENTAL RESPONSE, COM2ENSATION AND LIABILITY ACT.
ADMINISTERED BY EPA.

HSDB:
HAZA2MOUS SUBSTANCE DATA BANK~

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 A&M COMMUNITY RIGHT-TO-KNOW ACT. ADMINISTERED BY EPA.

TSCA; TOXIC SUBSTANCES CONTROL ACT.

ALLEGIANCE HEALTHCARE CORPORATION DISCLAIMER

NEITHER ALLEGIANCE HEALTHCARE 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.