

DATE PREPARED:  
JULY, 1999

DATE REVISED: JUNE 2004

BLUE GEL PRODUCTS

MATERIAL SAFETY DATA SHEET

## CHEMICAL PRODUCT AND COMPANY IDENTIFICATION



PRODUCT NAME	PRODUCT CODE
JACK FROST COOL ONLY GEL PACK	61115
JACK FROST REUSABLE MICRO HOT/COLD	70204
JACK FROST GEL REUSABLE INSULATED HOT/COLD	80204A
JACK FROST GEL REUSABLE INSULATED HOT/COLD	80600
JACK FROST GEL REUSABLE INSULATED HOT/COLD	80304A
NOVA+REUSABLE INSULATED GEL PACK	V80104
REUSABLE GEL HOT/COLD	GM24
TIKOOR	DR55
JACK FROST GEL REUSABLE MICRO HOT/COLD	70304
JACK FROST GEL REUSABLE MICRO HOT/COLD W/SLEEVE	70304A
JACK FROST GEL REUSABLE INSULATED HOT/COLD	80104
JACK FROST GEL REUSABLE INSULATED HOT/COLD	80701
REUSABLE GEL HOT/COLD	GS24

USER CODE/IDENTIFICATION:

MANUFACTURER:  
CARDINAL HEALTH  
1500 WAUKEGAN ROAD  
MCGAW PARK, IL 60085  
1-800-964-5227 (CUSTOMER SERVICE  
8:00 A.M. TO 4:30 P.M. CST M-F)

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

## COMPOSITION/INFORMATION ON INGREDIENTS



COMPONENT (SYNONYM)	CAS NO.	EXPOSURE LIMIT*
WATER	7732-18-5	NONE

PROPYLENE GLYCOL	57-55-6	NONE
TRIETHANALOMINE 99% (TEA 99) (DILUTE TEA 99 50% + TAP WATER 50%)	102-71-6	5 MG/M3
POLYACRYLIC ACID (CARBOPOL)	9003-01-4	NONE
FD&C BLUE DYE #1 (220-405-55)	3844-45-9	NONE
COSEPT 200 (QUATERNIUM-15)	51229-78-8	NONE

\*LIMIT ESTABLISHED BY ACGIH AS AN 8 HOUR TIME WEIGHTED AVERAGE

## HAZARDS IDENTIFICATION



### EMERGENCY OVERVIEW:

NONVOLATILE, NONFLAMMABLE MIXTURE IN WATER PACKAGED IN A WATERPROOF CONTAINER.

IF PACKAGING IS BROKEN, DIRECT CONTACT WITH SOLUTION MAY BE SLIGHTLY IRRITATING TO THE SKIN, EYES AND RESPIRATORY TRACT.

### POTENTIAL HEALTH EFFECTS:

#### EYE CONTACT:

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

#### INGESTION:

UNLIKELY UNDER NORMAL CONDITIONS OF HANDLING OR USAGE.  
NOT EXPECTED TO BE HAZARDOUS BY INGESTION IN SMALL QUANTITIES.

#### INHALATION:

INHALATION NOT LIKELY UNDER NORMAL USE CONDITIONS.  
INHALATION OF SOLUTION MAY BE IRRITATING TO RESPIRATORY TRACT.

#### SKIN CONTACT:

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

### CARCINOGEN STATUS:

OSHA: NOT LISTED.

### NTP:

TRIETHANOLAMIDE:  
EQUIVOCAL EVIDENCE OF CARCINOGENIC ACTIVITY IN MALE F344/N RATS.  
NO EVIDENCE OF CARCINOGENIC ACTIVITY IN FEMALE F344/N RATS.

### IARC:

POLYACRYLIC ACID AND FD& C BLUE DYE #1:  
IARC GROUP 3 - UNCLASSIFIABLE AS TO CARCINOGENICITY IN HUMANS.

### MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE:

NOT APPLICABLE FROM ACCIDENTAL EXPOSURE.

## 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:

CALL A PHYSICIAN OR POISON CONTROL CENTER FOR MOST CURRENT INFORMATION.  
DO NOT INDUCE VOMITING UNLESS DIRECTED TO DO SO BY MEDICAL PERSONNEL.  
NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON.

### 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 EFFECTED AREA WITH MILD DETERGENT  
AND WATER. FLUSH AREA WITH WATER FOR AT LEAST 15 MINUTES. IF REDNESS OR  
IRRITATION OCCURS, SEEK MEDICAL ATTENTION.

## FIRE FIGHTING MEASURES



NONFLAMMABLE WATER SOLUTION.

## 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).

## HANDLING AND STORAGE



### STORE UNDER THE FOLLOWING CONDITIONS:

STORE AT ROOM TEMPERATURE (NOT TO EXCEED 104 DEG. F/40 DEG. C).  
FOR CONVENIENCE, THE PRODUCT MAY BE STORED IN THE FREEZER BETWEEN USES.

## EXPOSURE CONTROLS/PERSONAL PROTECTION



CLOTHING: IF WATERPROOF PACKAGING IS BROKEN, WEAR SAFETY GLASSES.

### GLOVES:

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:**

5 MG/M3 AS AN 8 HOUR TIME WEIGHTED AVERAGE FOR TEA 99.

## **PHYSICAL AND CHEMICAL PROPERTIES**



APPEARANCE: BLUISH GEL 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: NOT ESTABLISHED

VAPOR DENSITY: NOT ESTABLISHED

MELTING POINT: NOT ESTABLISHED

FLASH POINT: NOT ESTABLISHED

## **;STABILITY AND REACTIVITY**



HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

INCOMPATIBILITIES (SPECIFIC MATERIALS TO AVOID): OXIDIZING AGENTS.

**DECOMPOSITION PRODUCTS:**

PROPIONALDEHYDE, CARBON MONOXIDE IN THE PRESENCE OF LIMITED OXYGEN IN FIRE SITUATIONS.

## **;TOXICOLOGICAL INFORMATION**



**ACUTE AND CHRONIC TOXICITY:**

THE FINAL PRODUCT HAS NOT BEEN EVALUATED FOR OCCUPATION EXPOSURE.  
THE FOLLOWING TOXICOLOGY DATA IS FOR THE COMPONENTS.

**PROPYLENE GLYCOL:**

**ACUTE:**

LD50 ORAL, RAT: 20 G/KG

LD50 ORAL, GUINEA PIG: 18,350 MG/KG  
LD50 SKIN, RABBIT: 20,800 MG/KG  
DERMAL IRRITATION, HUMAN: MODERATE (DRAIZE, 104 MG/3 D INTERMITTENT)  
EYE IRRITATION, RABBIT: MILD (DRAIZE, 500MG/24 HR)  
LCLO INHALATION, RAT: 2180 MG/M3/6H/90D INTERMITTENT

IN VITRO MUTAGENICITY STUDIES WERE NEGATIVE.  
ANIMAL MUTAGENICITY STUDIES WERE NEGATIVE

CHRONIC: NONE KNOWN

TRIEETHANALOMINE 99%:

ACUTE:

LD50 ORAL, RAT: 4920 MG/KG  
LD50 ORAL, RABBIT: 2200 MG/KG  
LD50 SKIN, RABBIT: >16 MG/KG  
DERMAL IRRITATION, HUMAN: MILD (DRAIZE, 15 MG/3 D INTERMITTENT)  
IRRITATING TO SKIN AND EYES, MAY BE ABSORBED THROUGH INTACT SKIN.  
POSSIBLE RESPIRATORY TRACT IRRITANT.

NOT MUTAGENIC IN SALMONELLA TYPHIMURIUM, SISTER CHROMATID EXCHANGES AND  
CHROMOSOMAL ABERRATIONS IN CULTURED CHINESE HAMSTER OVARY CELLS WITH AND  
WITHOUT S9 METABOLIC ACTIVATION.

CHRONIC:

EQUIVOCAL EVIDENCE OF CARCINOGENIC ACTIVITY IN MALE F344/N RATS.  
NO EVIDENCE OF CARCINOGENIC ACTIVITY IN FEMALE F344/N RATS.  
STUDY IN MALE AND FEMALE B6C3F(1) MICE WAS CONSIDERED INADEQUATE.

POLYACRYLIC ACID (CARBOPOL):

ACUTE:

LD50 ORAL, RAT: 2500 MG/KG  
IRRITATING TO EYES AND RESPIRATORY TRACT.

CHRONIC:

LISTED AS GROUP 3 - UNCLASSIFIABLE AS TO CARCINOGENICITY IN HUMANS.  
DERMATITIS MAY OCCUR UNDER EXTREME CONDITIONS OF PROLONGED OR REPEATED  
CONTACT.

FD&C BLUE DYE:

ACUTE:

LD50 SUBCUTANEOUS, RAT: 4600 MG/KG  
IRRITATING TO EYES AND RESPIRATORY TRACT.

CHRONIC:

LISTED AS GROUP 3 - UNCLASSIFIABLE AS TO CARCINOGENICITY IN HUMANS.

COSEPT 200:

ACUTE:

LD50 ORAL, RAT: 1500 MG/KG  
LD50 ORAL, RABBIT: 78 MG/KG  
LD50 SKIN (ABSORPTION), RABBIT: 600 MG/KG (STRONG SOLUTION)  
LD50 INHALATION, RAT: >4.7 MG/L FOR 4 HOURS

CHRONIC: NONE KNOWN

IRRITATING TO SKIN AND EYES, MAY BE ABSORBED THROUGH INTACT SKIN.  
POSSIBLE RESPIRATORY TRACT IRRITANT.

## **;ECOLOGICAL INFORMATION**



ENVIRONMENTAL IMPACT RATING (0-4): NO DATA

ACUTE AQUATIC TOXICITY: NO DATA AVAILABLE FOR FINAL PRODUCT

DEGRADABILITY: YES

LOG BIOCONCENTRATIONS FACTOR: DATA NOT AVAILABLE

LOG OCTANOL/WATER PARTITION COEFFICIENT: NO DATA

## **;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.

## **;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

## **;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.

## **;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