

# SAFETY DATA

**PRODUCT NAME: KF-7**

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SPR INTERNATIONAL INC.  
320 Northpoint Pkwy. Suite L  
Acworth, Ga. 30102

02/01/2012

OFFICE TELEPHONE NUMBER: Acworth, Ga. (770) 966-1331

**EMERGENCY TELEPHONE NUMBER: 3-E 1-800-451-8346**, Office 8:00 am to 5pm Mon -  
Fri E.S.Time 1- 800-346-7882

**PRODUCT: Alcohol 99% Isopropyl (KF-7)**

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+ ACUTE HEALTH	FIRE	REACTIVITY
	HAZARD RATING	
	LEAST-0 SLIGHT-1	
	MODERATE-2	
	HIGH-3 EXTREME-4	

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\*For acute and chronic health effects refer to the discussion in Section III

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PRODUCT > ISOPROPYL ALCOHOL (KF-7)

CHEMICAL > IPA. ISOPROPANOL, 2-PROPANOL

CHEMICAL FAMILY > ALCOHOL

SHELL CODE > 31105 SPR CODE > KF-7

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SECTION II-A PRODUCT/INGREDIENT

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NO.	COMPOSITION	CAS NUMBER	PERCENT
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1 ISOPROPYL ALCHOL	67-63-0	100
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SECTION II-B ACUTE TOXICITY DATA

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NO. ACUTE ORAL LD50 ACUTE DERMAL LD50 ACUTE INHALATION LC50  
5840 MG/KG (RAT) 13000 MG/KG (RABBIT) 12000 PPM (RAT) 8 HRS

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## SECTION III HEALTH INFORMATION

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THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH  
REQUIREMENTS  
UNDER THE OSHA HAZARD COMMUNICATION STANDARD.(29 CFR 1910. 1200)

EYE CONTACT  
MODERATELY IRRITATING TO THE SKIN

SKIN CONTACT  
MILDLY IRRITATING TO THE SKIN

INHALATION  
MAY CAUSE MILD IRRITATION TO THE NOSE, THROAT AND RESPIRATORY  
TRACT AND MAY RESULT IN CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION

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## INGESTION

GENERALLY CONSIDERED TO HAVE A LOW ORDER OF ACUTE ORAL TOXICITY.

## SIGNS AND SYMPTONS

IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS, AND NAUSEA.

## AGGRAVATED MEDICAL CONDITIONS

PREEEXISTING SKIN, EYE AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO IPA.

## OTHER HEALTH EFFECTS

INTENTIONAL ABUSE. MISUSE OR OTHER MASSIVE EXPOSURE TO IPA MAY RESULT IN DIFFICULT BREATHING. NAUSEA VOMITING AND HEADACHED ACCOMPANIED BY VARIOUS DEGREES OF CNS DEPRESSION. COMA AND/OR DEATH ARE EVEN POSSIBLE.

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SEE SECTION VI FOR ADDITIONAL HEALTH INFORMATION

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## SECTION IV OCCUPATIONAL EXPOSURE LIMITS

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	OSHA	ACGIG	OTHER
NO. PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL

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1 400 PPM                      400 PPM      500 PPM

50% ODOR RECOGNITION THRESHOLD IS 7.5 PPM.

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## SECTION V EMERGENCY AND FIRST AID PROCEDURES

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### EYE CONTACT

IMMEDIATELY FLUSH EYES WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE HOLDING EYELIDS OPEN. GET MEDICAL ATTENTION.

### SKIN CONTACT

FLUSH SKIN WITH WATER. IF IRRITATION OCCURS. GET MEDICAL ATTENTION.

### INHALATION

REMOVE VICTIM TO FRESH AIR AND PROVIDE OXYGEN IF BREATHING IS DIFFICULT. GET MEDICAL ATTENTION.

### INGESTION

DO NOT GIVE LIQUIDS IF VICTIM IS UNCONSCIOUS OR VERY DROWSY. GIVE

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NO MORE THAN 2 GLASSES OF WATER AND INDUCE VOMITING BY GIVING 30 CC (2 TABLESPOONS) SYRUP OF IPECAC.\* IF IPECAC IS UNAVAILABLE. GIVE 2 GLASSES OF WATER AND INDUCE VOMITING BY TOUCHING FINGER TO BACK OF VICTIM'S THROAT. KEEP VICTIM'S HEAD BELOW HIPS WHILE VOMITING. GET MEDICAL ATTENTION.

NOTE TO PHYSICIAN

\*IF VICTIM IS A CHILD. GIVE NO MORE THAN 1 GLASS OF WATER AND 15 CC (1 TABLESPOONS) SYRUP OF IPECAC. IF SYMPTOMS SUCH AS LOSS OF GAG REFLEX, CONVULSIONS OR UNCONSCIOUSNESS OCCUR BEFORE EMESIS, GASTRIC LAVAGE SHOULD BE CONSIDERED FOLLOWING INTUBATION WITH A CUFFED ENDOTRACHEAL TUBE.

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## SECTION VI SUPPLEMENTAL HEALTH INFORMATION

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IN RATS: 1) LIVER AND KIDNEY ENLARGEMENT HAS BEEN SEEN AT LEVELS >6250 PPM IN DRINKING WATER. 2) ANEMIA HAS BEEN SEEN AT 12500 AND 25000 PPM IN DRINKING WATER.

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## SECTION VII PHYSICAL DATA

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BOILING POINT: 180 (DEG F)    SPECIFIC GRAVITY: 0.79 (H2O=1)    VAPOR PRESSURE:  
33 @ 68 DEG F (MM HG)

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MELTING POINT: -127 SOLUBILITY: COMPLETE VAPOR DENSITY:  
(DEG F) (IN WATER) (AIR=1)  
2.1

EVAPORATION RATE (N-BUTYL ACETATE = 1): 1.4

APPEARANCE AND ODOR: COLORLESS, LIQUID. MILD ODOR.

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## SECTION VIII FIRE AND EXPLOSION HAZARDS

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FLASH POINT AND METHOD: 53 DEG F -TCC FLAMMABLE LIMITS/% VOLUME IN AIR  
LOWER: 2 UPPER: 12

### EXTINGUISHING MEDIA

USE WATER FOG. "ALCOHOL" FOAM. DRY CHEMICAL OR CO2.

### SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

WARNING. FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL.

DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR  
(HELMET WITH FACE SHIEL. BUNKER COATS, GLOVES AND RUBBER BOOTS.)  
INCLUDING A POSITIVE PRESSURE NIOSH APPROVED SELF-CONTAINED  
BREATHING APPARATUS. COOL FIRE EXPOSED CONTAINERS WITH WATER.

### UNUSUAL FIRE AND EXPLOSION HAZARDS

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CONTAINERS EXPOSED TO INTENSE HEAT FROM FIRES SHOULD BE COOLED WITH WATER TO PREVENT VAPOR PRESSURE BUILDUP WHICH COULD RESULT IN CONTAINER RUPTURE. CONTAINER AREAS EXPOSED TO DIRECT FLAME CONTACT SHOULD BE COOLED WITH LARGE QUANTITIES OF WATER AS NEEDED TO PREVENT WEAKENING OF CONTAINER.

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## SECTION IX REACTIVITY

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STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:  
AVOID HEAT, SPARKS, FLAME AND CONTACT WITH STRONG OXIDIZING AGENTS. DO NOT STORE OR HANDLE IN ALUMINUM EQUIPMENT AT TEMPERATURES ABOVE 120 DEG. G.

HAZARDOUS DECOMPOSITION PRODUCTS  
CARBON MONOXIDE AND UNIDENTIFIED ORGANIC COMPOUNDS MAY BE FORMED DURING COMBUSTION.

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## SECTION X EMPLOYEE PROTECTION

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RESPIRATORY PROTECTION  
IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS  
(SEC. IV) USE A NIOSH-APPROVED RESPIRATOR TO PREVENT

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OVEREXPOSURE. IN ACCORD WITH 29 CFR 1910. 134 USE EITHER AN ATMOSPHERE-SUPPLYING RESPIRATOR OR AN AIR-PURIFYING RESPIRATOR FOR ORGANIC VAPORS.

## PROTECTIVE CLOTHING

AVOID CONTACT WITH EYES. WEAR CHEMICAL GOGGLES IF THERE IS LIKELIHOOD OF CONTACT WITH EYES. AVOID PROLONGED OR REAPTED CONTACT WITH SKIN. WEAR CHEMICAL-RESISTANT GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT.

## ADDITIONAL PROTECTIVE MEASURES

\*TEST DATA FROM PUBLISHED LITERATURE AND/OR GLOVE AND CLOTHING MANUFACTURERS INDICATE THE BEST PROTECTION IS PROVIDED BY NITRILE, NEOPRENE AND NATURAL RUBBER GLOVES AND OTHER CLOTHING AS REQUIRED TO MINIMIZE CONTACT.\*

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## SECTION XI ENVIRONMENTAL PROTECTION

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## SPILL OR LEAK PROCEDURES

WARNING. FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. \*\*\*LARGE SPILLS\*\*\* EVACUATE THE HAZARD AREA OF UNPROTECTED PERSONNEL. WEAR APPROPRIATE RESPIRATOR AND PROTECTIVE CLOTHING.



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SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN . IF VAPOR CLOUD FORMS, WATER FOG MAY BE USED TO SUPPRESS; CONTAIN RUN-OFF. REMOVE WITH VACUUM TRUCKS OR PUMP TO STORAGE/SALVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL: PLACE IN NON-LEAKING CONTAINERS FOR PROPER DISPOSAL.

FLUSH AREA WITH WATER TO REMOVE TRACE RESIDUE: DISPOSE OF FLUSH SOLUTIONS AS ABOVE \*\*\*SMALL SPILLS\*\*\* TAKE UP WITH AN ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS: SEAL TIGHTLY FOR PROPER DISPOSAL.

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