

SAFETY DATA

PRODUCT NAME: **KF-1 (Acetone)**

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SPR INTERNATIONAL INC.
Northpoint Pkwy SE, 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

+ACUTE HEALTH HAZARD RATING> FIRE REACTIVITY 3 4 0
Least - 0
Slight- 1 Moderate-2
High-3 Extreme-4

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

CHEMICAL NAME > 2-PROPANONE

CHEMICAL FAMILY > KETONE

SHELL PRODUCT CODE > 31125 SPR PRODUCT CODE > KF-1

SECTION II-A PRODUCT\INGREDIENT

NO.	COMPOSITION	CAS NUMBER	PERCENT
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P	ACETONE	67-64-1	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

P 9.75 G/KG (RAT) 20.0 G/KG (RABBIT) 16,000 PPM\4H (RAT)

SECTION III HEALTH INFORMATION

THE HEALTH EFFECTS NOTED BELOW ARE CONSISTENT WITH REQUIREMENTS UNDER THE OSHA COMMUNICATION STANDARD (29 CFR 1910.1200).

EYE CONTACT LIQUID IS SEVERELY IRRITATING TO THE EYES. HIGH VAPOR CONCENTRATIONS ARE ALSO IRRITATING.

SKIN CONTACT

LIQUID IS MILDLY IRRITATING TO THE EYES. PROLONGED OR REAPEATED LIQUID CONTACT CAN RESULT IN DEFATTING AND DRYING OF THE SKIN WHICH MAY RESULT IN SKIN IRRITATION AND DERMATITIS.

INHALATION

HIGH VAPOR CONCENTRATIONS MAY PRODUCE CNS DEPRESSION.

INGESTION

MAY PRODUCE CNS DEPRESSION

SIGNS AND SYMPTONS

IRRITATION AS NOTED ABOVE. EARLY TO MODERATE CNS (CENTRAL NERVOUS SYSTEM) DEPRESSION MAY BE EVIDENCED BY GIDDINESS, HEADACHE, DIZZINESS AND NAUSEA; IN EXTREME CASES, UNCONSCIOUSNESS AND DEATH MAY OCCUR.

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AGGRAVATED MEDICAL CONDITIONS
PREEXISTING EYE AND SKIN DISORDERS MAY BE AGGRAVATED BY
EXPOSURE TO ACETONE.

PRODUCT NAME ACETONE

MSDS 5,380JJ-4

SECTION IV OCCUPATIONAL EXPOSURE LIMITS

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.
OTHERWISE, GIVE NO MORE THAN 2 GLASSES OF WATER AND INDUCE
VOMITING BY GIVING 30CC (2 TABLESPOONS) SYRUP OF IPECAC.* IF IPECAC
IF 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.

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NOTE TO PHYSICIAN

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

SECTION VI SUPPLEMENTAL HEALTH INFORMATION

NONE IDENTIFIED.

SECTION VII PHYSICAL DATA

BOILING POINT	SPECIFIC GRAVITY	VAPOR PRESSURE
133 (DEG F)	0.8 (60 DEG F) (H2O=1)	186 o 60 DEG F (MM HG)

MELTING POINT	SOLUBILITY IN	VAPOR DENSITY
139 (DEG F)	COMPLETE (WATER)	2.0 (AIR=1)

EVAPORATION RATE (N-BUTYL ACETATE = 1) 5.6

APPEARANCE AND ODOR: COLORLESS, MOBILE LIQUID, MILD ODOR.

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SECTION VIII FIRE AND EXPLOSION HAZARDS

FLASH POINT AND METHOD: FLAMMABLE LIMITS/% VOLUME IN AIR
-15 DEG F (TCC) LOWER: 2.6 HIGHER: 12.8

EXTINGUISHING MEDIA

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

SPECIAL FIRE FIGHTING PROCEDURES AND PRECAUTIONS

DANGER. EXTREMELY FLAMMABLE. CLEAR FIRE AREA OF UNPROTECTED PERSONNEL AND ISOLATE. DO NOT ENTER CONFINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER 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

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 WEAKING OF CONTAINER STRUCTURE.

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SECTION IX REACTIVITY

STABILITY: STABLE HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID:
AVOID HEAT, SPARKS, FLAME AND CONTACT WITH STRONG OXIDIZING
AGENTS. PREVENT VAPOR ACCUMULATION.

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

SECTION X EMPLOYEE PROTECTION

RESPIRATORY PROTECTION:
AVOID PROLONGED OR REPEATED BREATHING OF VAPORS. IF EXPOSURE
MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS (SEC. IV) USE A
NIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. IN ACCORD
WITH 29 CFR 1910. 134 USE EITHER AN ATMOSPHERE-SUPPLYING
RESPIRATOR OR AN AIR-PURIFYING FOR ORGANIC VAPORS.

PROTECTIVE CLOTHING:
AVOID CONTACT WITH EYES. WEAR CHEMICAL GOGGLES IF THERE IS
LIKELIHOOD OF CONTACT WITH EYES. AVOID PROLONGED OR REPEATED
CONTACT WITH SKIN. WEADR GLOVES AND OTHER CLOTHING AS REQUIRED
TO MINIMIZE CONTACT.

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ADDITIONAL PROTECTIVE MEASURES

USE EXPLOSION-PROOF VENTILATION AS REQUIRED TO CONTROL VAPOR CONCENTRATIONS. AIR DRY CONTAMINATED CLOTHING IN A WELL-VENTILATED AREA. THEN LAUNDRER BEFORE REUSING.

SECTION XI ENVIRONMENTAL PROTECTION

SPILL OR LEAK PROCEDURES

DANGER! EXTREMELY FLAMMABLE. ELIMINATE ALL IGNITION SOURCES. HANDLING EQUIPMENT MUST BE GROUNDED TO PREVENT SPARKING. --- LARGE SPILLS --- ISOLATE THE HAZARD AREA AND DENY ENTRY TO UNNECESSARY PERSONNES. WEAR APPROPRIATE RESPIRADTOR AND PROTECTIVE CLOTHING . SHUT OFF SOURCE OF LEAK ONLY IF SAFE TO DO SO. DIKE AND CONTAIN. WATER FOG MAY BE USEFUL IN SUJPPRESSING VAPOR CLOUD; CONTAIN RUN-OFF. REMOVE WITH VACUM TRUCKS OR PUMP TO STORAGE/SALAVAGE VESSELS. SOAK UP RESIDUE WITH AN ABSORBENT SUCH AS CLAY, SAND OR OTHER SUITABLE MATERIAL; PLACE IN NON-LEAKING CONTAINERS FOR PROPER SMALL SPILLS --- TAKE UP WITH A ABSORBENT MATERIAL AND PLACE IN NON-LEAKING CONTAINERS; SEAL TIGHTLY FOR PROPER DISPOSAL.

WASTE DISPOSAL

UNDER EPA - RCRA (40CFR 261.33). IF ACETONE BECOMES A WASTE MATERIAL. IT WOULD BE A HAZARDOUS WASTE. HAZARDOUS WASTE NUMBER U002. REFER LATEST EPA OR STATE REGULATIONS REGARDING PROPER DISPOSAL.

ENVIRONMENTAL HAZARDS

EPA - COMPREHENSIVE ENVIRONMENTAL RESPONSE. COMPENSATION AND

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LIABILITY ACT. UNDER EPA-CERCLA ("SUPERFUND") RELEASES TO AIR, LAND OR WATER WHICH EXCEED THE REPORTABLE QUANTITY MUST BE REPORTED TO THE NATIONAL RESPONSE CENTER. 800-424-8802

SECTION XII SPECIAL PRECAUTIONS

KEEP LIQUID AND VAPOR AWAY FROM HEAT, SPARKS AND FLAME. SURFACES THAT ARE SUFFICIENTLY HOT MAY IGNITE EVEN LIQUID PRODUCT IN THE ABSENCE OF SPARKS OR FLAME. EXTINGUISH PILOT LIGHTS, CIGARETTES AND TURN OFF OTHER SOURCES OF IGNITION PRIOR TO USE AND UNTIL ALL VAPORS ARE GONE. VAPORS MAY ACCUMULATE AND TRAVEL TO IGNITION SOURCES DISTANT FROM THE HANDLING SITE; FLASH-FIRE CAN RESULT. KEEP CONTAINERS CLOSED WHEN NOT IN USE. USE WITH ADEQUATE VENTILATION.

CONTAINERS, EVEN THOSE THAT HAVE BEEN EMPTIED, CAN CONTAIN EXPLOSIVE VAPORS. DO NOT CUT, DRILL, GRIND, WELD OR PERFORM SIMILAR OPERATIONS ON OR NEAR CONTAINERS.

STATIC ELECTRICITY MAY ACCUMULATE AND CREATE A FIRE HAZARD. GROUND FIXED EQUIPMENT. BOND AND GROUND TRANSFER CONTAINERS AND EQUIPMENT.

SECTION XIII TRANSPORTATION REQUIREMENTS

DEPARTMENT OF TRANSPORTATION REQUIREMENTS

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DEPARTMENT OF TRANSPORTATION CLASSIFICATION: FLAMMABLE LIQUID
D.O.T. PROPER SHIPPING NAME: ACETONE

OTHER REQUIREMENTS:
UN 1090. GUIDE SHEET 26.

SECTION XIV OTHER REGULATORY CONTROLS

THIS PRODUCT IS LISTED ON THE EPA\TSCA INVENTORY OF CHEMICAL
CONTROLS.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE
TO US AND IS BELIEVED TO BE CORRECT. HOWEVER, SHELL MAKES NO
WARRANTY. EXPRESSED OR IMPLIED THE ACCURACY OF THESE DATA OR
THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. SHELL ASSUMES
NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT
DESCRIBED HEREIN

DATE PREPARED: 02/01/2012 ORIGINAL SIGNED BY:

BE SAFE READ OUR PRODUCT SAFETY INFORMATION...AND PASS IT ON
(PRODUCT LIABILITY LAW REQUIRES IT)