

ITEM: 3KB82 - Aerosol Spray 24 Oz

PICK_REQ: 1020990528

MATERIAL SAFETY DATA SHEET (MSDS)

MSDS: A7030

This MSDS should be attached or kept with the respective product with which it is associated.

MATERIAL SAFETY DATA SHEET - A7030

Associated Grainger Item: 3KB82 - Aerosol Spray 24 Oz

3M

3M MATERIAL SAFETY DATA SHEET

3M(TM) SPRAY ADHESIVE 72, BLUE

02/04/2005

MATERIAL SAFETY DATA SHEET

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME: 3M(TM) SPRAY ADHESIVE 72, BLUE

MANUFACTURER: 3M

DIVISION: INDUSTRIAL ADHESIVES AND TAPES

ADDRESS:
3M CENTER
ST. PAUL, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 OR (651) 737-6501 (24 HOURS)

ISSUE DATE: 02/04/2005

SUPERCEDES DATE: 12/13/2004

DOCUMENT GROUP: 16-5452-4

PRODUCT USE:
INTENDED USE: AEROSOL ADHESIVE
SPECIFIC USE: PRESSURE SENSITIVE AEROSOL ADHESIVE

SECTION 2: INGREDIENTS

INGREDIENT	C.A.S. NO.	% BY WT
METHYL ACETATE	79-20-9	25-35
DIMETHYL ETHER	115-10-6	25-35
NONVOLATILE COMPONENTS - N.J. TRADE SECRET REGISTRY NO. 04499600-6452P	TRADE SECRET	10-20
ISOBUTANE	75-28-5	10-20
CYCLOHEXANE	110-82-7	5-10
PENTANE	109-66-0	1-5
1,1-DIFLUOROETHANE	75-37-6	1-5
METHYL ALCOHOL	67-56-1	<0.4

SECTION 3: HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW:

SPECIFIC PHYSICAL FORM: AEROSOL

ODOR, COLOR, GRADE: BLUE, FRUITY ODOR

GENERAL PHYSICAL FORM: GAS

IMMEDIATE HEALTH, PHYSICAL, AND ENVIRONMENTAL HAZARDS:
CLOSED CONTAINERS EXPOSED TO HEAT FROM FIRE MAY BUILD PRESSURE AND EXPLODE. EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY TRAVEL LONG DISTANCES ALONG THE GROUND OR FLOOR TO AN IGNITION SOURCE AND FLASH BACK. AEROSOL CONTAINER CONTAINS FLAMMABLE MATERIAL UNDER PRESSURE. MAY CAUSE TARGET ORGAN EFFECTS.

3.2 POTENTIAL HEALTH EFFECTS:

EYE CONTACT:
MODERATE EYE IRRITATION:
SIGNS/SYMPTOMS MAY INCLUDE REDNESS, SWELLING, PAIN, TEARING, AND BLURRED OR HAZY VISION.

SKIN CONTACT:
PROLONGED OR REPEATED EXPOSURE MAY CAUSE:
MILD SKIN IRRITATION:
SIGNS/SYMPTOMS MAY INCLUDE LOCALIZED REDNESS, SWELLING, AND ITCHING.

INHALATION:
UPPER RESPIRATORY TRACT IRRITATION:
SIGNS/SYMPTOMS MAY INCLUDE COUGH, SNEEZING, NASAL DISCHARGE, HEADACHE, HOARSENESS, AND NOSE AND THROAT PAIN.

MAY BE ABSORBED FOLLOWING INHALATION AND CAUSE TARGET ORGAN EFFECTS.

INTENTIONAL CONCENTRATION AND INHALATION MAY BE HARMFUL OR FATAL.

INGESTION:
GASTROINTESTINAL IRRITATION:

SIGNS/SYMPTOMS MAY INCLUDE ABDOMINAL PAIN, NAUSEA, DIARRHEA AND VOMITING.

CHEMICAL (ASPIRATION) PNEUMONITIS:
SIGNS/SYMPTOMS MAY INCLUDE COUGHING, GASPING, CHOKING, BURNING OF THE MOUTH, DIFFICULTY BREATHING, BLuish COLORED SKIN (CYANOSIS), AND MAY BE FATAL.

TARGET ORGAN EFFECTS:
CENTRAL NERVOUS SYSTEM (CNS) DEPRESSION:
SIGNS/SYMPTOMS MAY INCLUDE HEADACHE, DIZZINESS, DROWSINESS, INCOORDINATION, NAUSEA, SLOWED REACTION TIME, SLURRED SPEECH, GIDDINESS, AND UNCONSCIOUSNESS.

PROLONGED OR REPEATED EXPOSURE, ABOVE RECOMMENDED GUIDELINES, MAY CAUSE:

LIVER EFFECTS:
SIGNS/SYMPTOMS MAY INCLUDE LOSS OF APPETITE, WEIGHT LOSS, FATIGUE, WEAKNESS, ABDOMINAL TENDERNES AND JAUNDICE.

KIDNEY EFFECTS:
SIGNS/SYMPTOMS MAY INCLUDE REDUCED OR ABSENT URINE PRODUCTION, INCREASED SERUM CREATININE, LOWER BACK PAIN, INCREASED PROTEIN IN URINE, AND INCREASED BLOOD UREA NITROGEN (BUM).

SECTION 4: FIRST AID MEASURES

4.1 FIRST AID PROCEDURES:
THE FOLLOWING FIRST AID RECOMMENDATIONS ARE BASED ON AN ASSUMPTION THAT APPROPRIATE PERSONAL AND INDUSTRIAL HYGIENE PRACTICES ARE FOLLOWED.

EYE CONTACT:
FLUSH EYES WITH LARGE AMOUNTS OF WATER. IF SIGNS/SYMPTOMS PERSIST, GET MEDICAL ATTENTION.

SKIN CONTACT:
WASH AFFECTED AREA WITH SOAP AND WATER. IF SIGNS/SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

INHALATION:
REMOVE PERSON TO FRESH AIR. IF SIGNS/SYMPTOMS DEVELOP, GET MEDICAL ATTENTION.

IF SWALLOWED:
DO NOT INDUCE VOMITING. GIVE VICTIM TWO GLASSES OF WATER. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. GET IMMEDIATE MEDICAL ATTENTION.

SECTION 5: FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES:

AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE

FLASH POINT: -42.00 DEG. F
(TEST METHOD: TAGLIABUE CLOSED CUP)

FLAMMABLE LIMITS - LEL: NO DATA AVAILABLE
FLAMMABLE LIMITS - UEL: NO DATA AVAILABLE

OSHA FLAMMABILITY CLASSIFICATION: CLASS IA FLAMMABLE LIQUID

5.2 EXTINGUISHING MEDIA:
USE FIRE EXTINGUISHERS WITH CLASS B EXTINGUISHING AGENTS (E.G., DRY CHEMICAL, CARBON DIOXIDE).

5.3 PROTECTION OF FIRE FIGHTERS:

SPECIAL FIRE FIGHTING PROCEDURES:
WEAR FULL PROTECTIVE EQUIPMENT (BUNKER GEAR) AND A SELF-CONTAINED BREATHING APPARATUS (SCBA).

UNUSUAL FIRE AND EXPLOSION HAZARDS:
CLOSED CONTAINERS EXPOSED TO HEAT FROM FIRE MAY BUILD PRESSURE AND EXPLODE. EXTREMELY FLAMMABLE LIQUID AND VAPOR. VAPORS MAY TRAVEL LONG DISTANCES ALONG THE GROUND OR FLOOR TO AN IGNITION SOURCE AND FLASH BACK. AEROSOL CONTAINER CONTAINS FLAMMABLE MATERIAL UNDER PRESSURE.

NOTE:
SEE STABILITY AND REACTIVITY (SECTION 10) FOR HAZARDOUS COMBUSTION AND THERMAL DECOMPOSITION INFORMATION.

SECTION 6: ACCIDENTAL RELEASE MEASURES

ACCIDENTAL RELEASE MEASURES:
REFER TO OTHER SECTIONS OF THIS MSDS FOR INFORMATION REGARDING PHYSICAL AND HEALTH HAZARDS, RESPIRATORY PROTECTION, VENTILATION, AND PERSONAL PROTECTIVE EQUIPMENT. CALL 3M-HELPS LINE (1-800-364-3577) FOR MORE INFORMATION ON HANDLING AND MANAGING THE SPILL. EVACUATE UNPROTECTED AND UNTRAINED PERSONNEL FROM HAZARD AREA. THE SPILL SHOULD BE CLEANED UP BY QUALIFIED PERSONNEL. REMOVE ALL IGNITION SOURCES SUCH AS FLAMES, SMOKING MATERIALS, AND ELECTRICAL SPARK SOURCES. USE ONLY NON-SPARKING TOOLS. VENTILATE THE AREA WITH FRESH AIR. IF POSSIBLE, SEAL LEAKING CONTAINER. PLACE LEAKING CONTAINERS IN A WELL-VENTILATED AREA, PREFERABLY AN OPERATING EXHAUST HOOD, OR IF NECESSARY OUTDOORS ON AN IMPERMEABLE SURFACE UNTIL APPROPRIATE PACKAGING FOR THE LEAKING CONTAINER OR ITS CONTENTS IS AVAILABLE.

IN THE EVENT OF A RELEASE OF THIS MATERIAL, THE USER SHOULD DETERMINE IF THE RELEASE QUALIFIES AS REPORTABLE ACCORDING TO LOCAL, STATE, AND FEDERAL REGULATIONS.

SECTION 7: HANDLING AND STORAGE

7.1 HANDLING:
DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER. KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME, PILOT LIGHTS AND OTHER SOURCES OF IGNITION. DO NOT PIERCE OR BURN CONTAINER, EVEN AFTER USE. NO SMOKING WHILE HANDLING THIS MATERIAL. DO NOT SPRAY NEAR FLAMES OR SOURCES OF IGNITION. AVOID PROLONGED OR REPEATED SKIN CONTACT. AEROSOL CONTAINER CONTAINS FLAMMABLE GAS UNDER PRESSURE. AVOID EYE CONTACT

WITH VAPORS, MISTS, OR SPRAY. KEEP OUT OF THE REACH OF CHILDREN.

7.2 STORAGE:
STORE AWAY FROM ACIDS. STORE AWAY FROM HEAT. STORE OUT OF DIRECT SUNLIGHT.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 ENGINEERING CONTROLS:
USE WITH APPROPRIATE LOCAL EXHAUST VENTILATION. DO NOT USE IN A CONFINED AREA OR AREAS WITH LITTLE OR NO AIR MOVEMENT. USE GENERAL DILUTION VENTILATION AND/OR LOCAL EXHAUST VENTILATION TO CONTROL AIRBORNE EXPOSURES TO BELOW OCCUPATIONAL EXPOSURE LIMITS AND/OR CONTROL MIST, VAPOR, OR SPRAY. IF VENTILATION IS NOT ADEQUATE, USE RESPIRATORY PROTECTION EQUIPMENT.

8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE):

8.2.1 EYE/FACE PROTECTION:
AVOID EYE CONTACT WITH VAPORS, MISTS, OR SPRAY. THE FOLLOWING EYE PROTECTION(S) ARE RECOMMENDED:
SAFETY GLASSES WITH SIDE SHIELDS.

8.2.2 SKIN PROTECTION:
GLOVES NOT NORMALLY REQUIRED. AVOID PROLONGED OR REPEATED SKIN CONTACT.

8.2.3 RESPIRATORY PROTECTION:
AVOID BREATHING OF VAPORS, MISTS OR SPRAY. SELECT ONE OF THE FOLLOWING NIOSH APPROVED RESPIRATORS BASED ON AIRBORNE CONCENTRATION OF CONTAMINANTS AND IN ACCORDANCE WITH OSHA REGULATIONS: HALF FACEPIECE OR FULLFACE AIR-PURIFYING RESPIRATOR WITH ORGANIC VAPOR CARTRIDGES. CONSULT THE CURRENT 3M RESPIRATORY SELECTION GUIDE FOR ADDITIONAL INFORMATION OR CALL 1-800-243-4630 FOR 3M TECHNICAL ASSISTANCE.

8.2.4 PREVENTION OF SWALLOWING:
DO NOT EAT, DRINK OR SMOKE WHEN USING THIS PRODUCT. WASH EXPOSED AREAS THOROUGHLY WITH SOAP AND WATER.

8.3 EXPOSURE GUIDELINES:

INGREDIENT	AUTHORITY	TYPE	LIMIT	ADDITIONAL INFORMATION
1,1-DIFLUOROETHANE	AIHA	TWA	1000 PPM	
1,1-DIFLUOROETHANE	CMRG	TWA	1000 PPM	
CYCLOHEXANE	ACGIH	TWA	100 PPM	
CYCLOHEXANE	OSHA	TWA	300 PPM	TABLE Z-1
DIMETHYL ETHER	AIHA	TWA	1000 PPM	
DIMETHYL ETHER	CMRG	TWA	1000 PPM	
ISOBUTANE	ACGIH	TWA	1000 PPM	
METHYL ACETATE	ACGIH	TWA	200 PPM	
METHYL ACETATE	ACGIH	STEL	250 PPM	
METHYL ACETATE	OSHA	TWA	200 PPM	TABLE Z-1A
METHYL ACETATE	OSHA	STEL	250 PPM	TABLE Z-1A
METHYL ALCOHOL	ACGIH	TWA	200 PPM	SKIN NOTATION*
METHYL ALCOHOL	ACGIH	STEL	250 PPM	SKIN NOTATION*
METHYL ALCOHOL	OSHA	TWA	200 PPM	SKIN NOTATION*; TABLE Z-1A
METHYL ALCOHOL	OSHA	STEL	250 PPM	SKIN NOTATION*; TABLE Z-1A
PENTANE	ACGIH	TWA	600 PPM	
PENTANE	OSHA	TWA, VACATED	600 PPM	
PENTANE	OSHA	STEL, VACATED	750 PPM	
PENTANE	OSHA	TWA	1000 PPM	TABLE Z-1

* SUBSTANCE(S) REFER TO THE POTENTIAL CONTRIBUTION TO THE OVERALL EXPOSURE BY THE CUTANEOUS ROUTE INCLUDING MUCOUS MEMBRANE AND EYE, EITHER BY AIRBORNE OR, MORE PARTICULARLY, BY DIRECT CONTACT WITH THE SUBSTANCE. VEHICLES CAN ALTER SKIN ABSORPTION.

VAC VACATED PEL:
VACATED PERMISSIBLE EXPOSURE LIMITS (PEL) ARE ENFORCED AS THE OSHA PEL IN SOME STATES. CHECK WITH YOUR LOCAL REGULATORY AGENCY.

SOURCE OF EXPOSURE LIMIT DATA:

ACGIH: AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS

CMRG: CHEMICAL MANUFACTURER RECOMMENDED GUIDELINE

OSHA: OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION

AIHA:
AMERICAN INDUSTRIAL HYGIENE ASSOCIATION WORKPLACE ENVIRONMENTAL EXPOSURE LEVEL (WEEL)

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

SPECIFIC PHYSICAL FORM: AEROSOL

ODOR, COLOR, GRADE: BLUE, FRUITY ODOR

GENERAL PHYSICAL FORM: GAS

AUTOIGNITION TEMPERATURE: NO DATA AVAILABLE

FLASH POINT: -42.00 DEG. F
(TEST METHOD: TAGLIABUE CLOSED CUP)

FLAMMABLE LIMITS - LEL: NO DATA AVAILABLE
FLAMMABLE LIMITS - UEL: NO DATA AVAILABLE

VAPOR DENSITY: 2.97
(REF STD: AIR=1)

SPECIFIC GRAVITY: 0.749
(REF STD: WATER=1)

pH NO: DATA AVAILABLE

MELTING POINT: NO DATA AVAILABLE

SOLUBILITY IN WATER: NIL

EVAPORATION RATE: 1.90
(REF STD: ETHER=1)

HAZARDOUS AIR POLLUTANTS: </=.4 % WEIGHT
(TEST METHOD: CALCULATED)

VOLATILE ORGANIC COMPOUNDS: </=55 %
(TEST METHOD: CALCULATED SCAQMD RULE 443.1)

PERCENT VOLATILE: APPROXIMATELY 85 % WEIGHT

VISCOSITY: NOT APPLICABLE

SECTION 10: STABILITY AND REACTIVITY

STABILITY: STABLE.

MATERIALS AND CONDITIONS TO AVOID: HEAT

HAZARDOUS POLYMERIZATION: HAZARDOUS POLYMERIZATION WILL NOT OCCUR.

HAZARDOUS DECOMPOSITION OR BY-PRODUCTS:

SUBSTANCE	CONDITION
CARBON MONOXIDE	DURING COMBUSTION
CARBON DIOXIDE	DURING COMBUSTION
TOXIC VAPOR, GAS, PARTICULATE	DURING COMBUSTION

SECTION 11: TOXICOLOGICAL INFORMATION

PLEASE CONTACT THE ADDRESS LISTED IN SECTION 1 OF THIS MSDS FOR TOXICOLOGICAL INFORMATION ON THIS MATERIAL AND/OR ITS COMPONENTS.

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICOLOGICAL INFORMATION: NOT DETERMINED.

CHEMICAL FATE INFORMATION: NOT DETERMINED.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD:
INCINERATE IN A PERMITTED HAZARDOUS WASTE INCINERATOR. AS A DISPOSAL ALTERNATIVE, DISPOSE OF WASTE PRODUCT IN A PERMITTED HAZARDOUS WASTE FACILITY. FACILITY MUST BE CAPABLE OF HANDLING AEROSOL CANS. RECYCLE EMPTY AEROSOL CONTAINERS WHERE AVAILABLE.

EPA HAZARDOUS WASTE NUMBER (RCRA): D001 (IGNITABLE)

SINCE REGULATIONS VARY, CONSULT APPLICABLE REGULATIONS OR AUTHORITIES BEFORE DISPOSAL.

SECTION 14: TRANSPORT INFORMATION

ID NUMBER UPC

62-4933-4930-2

62-4933-4935-1

PLEASE CONTACT THE EMERGENCY NUMBERS LISTED IN SECTION 1 OF THIS MSDS FOR TRANSPORTATION INFORMATION FOR THIS MATERIAL.

SECTION 15: REGULATORY INFORMATION

US FEDERAL REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

311/312 HAZARD CATEGORIES:

FIRE HAZARD - YES
PRESSURE HAZARD - YES
REACTIVITY HAZARD - NO
IMMEDIATE HAZARD - YES
DELAYED HAZARD - YES

SECTION 313 TOXIC CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF THAT SECTION AND 40 CFR PART 372 (EPCRA):

INGREDIENT	C.A.S. NO	% BY WT
CYCLOHEXANE	110-82-7	5-10

THIS MATERIAL CONTAINS A CHEMICAL WHICH REQUIRES EXPORT NOTIFICATION UNDER TSCA SECTION 12 (B):

INGREDIENT (CATEGORY IF APPLICABLE)	C.A.S. NO	REGULATION
PENTANE	109-66-0	TOXIC SUBSTANCES CONTROL ACT (TSCA) 4 TEST RULE CHEMICALS
CYCLOHEXANE	110-82-7	TOXIC SUBSTANCES CONTROL ACT (TSCA) 4 TEST RULE CHEMICALS
METHYL ACETATE	79-20-9	TOXIC SUBSTANCES CONTROL ACT (TSCA) 4 TEST RULE CHEMICALS

INGREDIENT (CATEGORY IF APPLICABLE)	STATUS
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PENTANE APPLICABLE
CYCLOHEXANE APPLICABLE
METHYL ACETATE APPLICABLE

STATE REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

CHEMICAL INVENTORIES:
THE COMPONENTS OF THIS PRODUCT ARE IN COMPLIANCE WITH THE CHEMICAL
NOTIFICATION REQUIREMENTS OF TSCA.

CONTACT 3M FOR MORE INFORMATION.

INTERNATIONAL REGULATIONS: CONTACT 3M FOR MORE INFORMATION.

THIS MSDS HAS BEEN PREPARED TO MEET THE U.S. OSHA HAZARD COMMUNICATION
STANDARD, 29 CFR 1910.1200.

SECTION 16: OTHER INFORMATION

NFPA HAZARD CLASSIFICATION:

HEALTH: 2
FLAMMABILITY: 4
REACTIVITY: 0
SPECIAL HAZARDS: NONE

AEROSOL STORAGE CODE: 3

NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) HAZARD RATINGS ARE DESIGNED FOR
USE BY EMERGENCY RESPONSE PERSONNEL TO ADDRESS THE HAZARDS THAT ARE
PRESENTED BY SHORT-TERM, ACUTE EXPOSURE TO A MATERIAL UNDER CONDITIONS OF
FIRE, SPILL, OR SIMILAR EMERGENCIES. HAZARD RATINGS ARE PRIMARILY BASED ON
THE INHERENT PHYSICAL AND TOXIC PROPERTIES OF THE MATERIAL BUT ALSO INCLUDE
THE TOXIC PROPERTIES OF COMBUSTION OR DECOMPOSITION PRODUCTS THAT ARE KNOWN
TO BE GENERATED IN SIGNIFICANT QUANTITIES.

REVISION CHANGES:

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SECTION 3: IMMEDIATE PHYSICAL HAZARD(S) WAS MODIFIED.
SECTION 5: UNUSUAL FIRE AND EXPLOSION HAZARD INFORMATION WAS MODIFIED.
SECTION 14: ID NUMBER(S) AND/OR UPC(S) WAS ADDED.
SECTION 14: ID NUMBER HEADING WAS DELETED.
SECTION 14: ID NUMBER(S) WAS DELETED.

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APPLICATION.

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3M MSDSS ARE AVAILABLE AT WWW.3M.COM

ORDER: 1020990528

ITEM: 3KB82 - Aerosol Spray 24 Oz

HAZMAT: 3KB82

HAZARD MATERIAL WARNING SHEET (HAZMAT)

When shipment is complete, retain for daily Hazmat audit

GRAINGER SHIPPING INFORMATION

STOCK # : 3KB82
MSDS # : A7030
FREIGHT CODE : 0863
DOT PROPER SHIP NAME : CONSUMER COMMODITY, ORM-D FLASHPOINT -41 DGS C, -42 DGS F

FLASHPOINT : -41 DEGREES CELSIUS, -42 DEGREES FAHRENHEIT

UPS RESTRICTIONS : 20 LB. & UNDER REQUIRES 200 LB. BSC/32 ECT, 21 LB. & OVER REQUIRES 275 LB. BSC/44 ECT.

HAZARDOUS CLASS NUMBER : ORM-D
UN ID # :
PACKING GROUP :
SHIPPING LABEL : Consumer Commodity ORM-D

LIMITED QUANTITY : YES
CARTON INSTRUCTIONS : CAN REPACK IN GRAINGER S CARTON
DOT/UPS EXEMPTION NO. :
COMMENTS : HAZARDOUS MATERIAL. DO NOT SHIP AIR!!
SHIPPING-PAPERS :

PLACARD OFFERED ? YES () NO () PLEASE MARK ONE
