

CHOMERICS, INC. -- CHO-FLEX 601 -- 8030-01-327-0587

===== Product Identification =====

Product ID:CHO-FLEX 601

MSDS Date:03/06/1990

FSC:8030

NIIN:01-327-0587

MSDS Number: BKJXC

=== Responsible Party ===

Company Name:CHOMERICS, INC.

Address:77 DRAGON COURT

City:WOBURN

State:MA

ZIP:01888

Country:US

Info Phone Num:617-935-4851 OR 617-978-5631

Emergency Phone Num:617-935-4851 OR 617-978-5631

Preparer'

s Name:DAVID HAAS

CAGE:18565

=== Contractor Identification ===

Company Name:PARKER HANNIFIN CORPORATION CHOMERICS DIVISION

Address:77 DRAGON COURT

Box:City:WOBURN

State:MA

ZIP:01888

Country:US

Phone:617-935-4850

CAGE:18565

===== Composition/Information on Ingredients =====

Ingred Name:SILVER (SARA III)

CAS:7440-22-4

RTECS #:VW3500000

Fraction by Wt: 40-50%

Other REC Limits:NONE SPECIFIED

OSHA PEL:0.01 MG/M3

ACGIH TLV:0.1 MG/M3; 9192

EPA Rpt Qty:1 LB

DOT Rpt Qty:1 LB

Ingred

Name:2-ETHOXYETHYL ACETATE (CELLOSOLVE ACETATE) (EGEEA)  
CAS:111-15-9  
RTECS #:KK8225000  
Fraction by Wt: < 25%  
Other REC Limits:NONE SPECIFIED  
OSHA PEL:S,100 PPM  
ACGIH TLV:S, 5 PPM; 9192

Ingred Name:THERMOPLASTIC POLYURETHANE  
Fraction by Wt: < 25%  
Other REC Limits:NONE SPECIFIED

Ingred Name:DIMETHYL GLUTARATE  
CAS:1119-40-0  
Fraction by Wt: 10-15%  
Other REC Limits:NONE SPECIFIED

Ingred Name:DIMETHYL SUCCINATE  
CAS:106-65-0  
Fraction by Wt: < 5%  
Other REC Limits:NONE SPECIFIED

Ingred Name:DIMETHYL  
ADIPATE  
CAS:627-93-0  
RTECS #:AV1645000  
Fraction by Wt: < 5%  
Other REC Limits:NONE SPECIFIED

Ingred Name:MELAMINE-FORMALDEHYDE RESIN  
Fraction by Wt: < 5%  
Other REC Limits:NONE SPECIFIED

===== Hazards Identification =====

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO  
Health Hazards Acute and Chronic:EXCESSIVE OR PROLONGED CONTACT WITH  
SILVER COMPOUNDS HAS BEEN KNOWN TO CAUSE ARGYRIA, A BLUE-GRAY  
DISCOLORATION OF THE SKIN. OVEREXPOSURE TO CELLO  
SOLVE ACETATE  
(2-ETHOXYETHYL ACETATE) HAS RESULTED IN BLOOD CHANGES AND LIVER  
AND REPRODUCTIVE INJURY IN LABORATORY ANIMALS.  
Effects of Overexposure:EYE:CONTAINS MATERIALS IRRITATING TO THE EYES.  
BLURRED VISION, BURNING SENSATION AND TEARING. SKIN:IRRIT.DEFATTING  
OR DRYING ACTION ON THE SKIN, POSSIBLY RESULTING IN DERMATITIS.  
INHALATION:VAPORS MAY CAUSE RESPIRATORY IRRITATION, NAUSEA AND  
HEADACHES. INGESTION:HARMFUL IF SWALLOWED.  
Medical Cond Aggravated by Exposure:EXPO

SURE MAY AGGRAVATE PREEXISTING  
SKIN, EYE AND/OR RESPIRATORY DISORDERS.

===== First Aid Measures =====

First Aid:EYE:FLUSH THOROUGHLY WITH WATER FOR 15 MIN WHILE HOLDING EYELIDS OPEN.GET MED ATTN.SKIN:REMOVE ANY CONTAMINATED CLOTHES AND FLUSH THOROUGHLY WITH WATER.FOLLOW BY WASHING WITH SOAP AND WATER.GET MED AT TN IF IRRIT PERSISTS.DO NOT REUSE CONTAMINATED CLOTHING UNTIL PROPERLY CLEANED.CONTAMINATED LEATHER ARTICLES,INCLUDING SHOE S,CANNOT BE DECONTAMINATED & SHOULD BE DESTROYED.\*\*

===== Fire Fighting Measures =====

Flash Point:126F,52C\*

Lower Limits:1.7

Upper Limits:6.7

Extinguishing Media:USE CARBON DIOXIDE, DRY CHEMICAL FOAM, WATER FOG.

\*BASED ON 2-ETHOXYETHANOL ACETATE.

Fire Fighting Procedures:FIREFIGHTERS SHOULD WEAR POSITIVE PRESSURE SCBA & FULL PROTECT EQUIP.COOL EXPOSED CONTAINERS W/WATER TO PREVENT PRESS BUILDUP.IF LOTS OF MAT'L INVOLVED,EVACUATE

Unusual

Fire/Explosion Hazard:DECOMP/COMBUST PRODUCTS MAY BE TOXIC.CLOSED CNTNRS MAY RUPTURE W/FIRE CONDITIONS.VAPORS MAY FORM FLAMM MIX W/AIR.VAPORS HEAVIER THAN AIR,TRAVEL & FLASHBACK.

===== Accidental Release Measures =====

Spill Release Procedures:ACTIVATE ALL EXPLOS-PROOF EXHAUST VENT.EXTINGUISH OPEN FLAMES/ELIMINATE SOURCES OF IGNIT.WIPE UP,ABSORB W/VERMICULITE/OTHER SIMILAR MAT'L.DIKE AREA TO CONTAIN SPILL.WASH AREA W/SOAPY WATER.COLLECT ABS ORBED MAT'L/WATER RINSES IN CHEM WASTE CONTAINERS.

===== Handling and Storage =====

Handling and Storage Precautions:STORE IN A COOL, DRY LOCATION WITH ADEQUATE VENTILATION. KEEP CONTAINER TIGHTLY SEALED WHEN NOT IN USE.DO NOT STORE NEAR HEAT,SPARKS OR OPEN FLAME.

Other Precautions:GROUND STORAGE AND TRANSFER CONTAINERS IN ACCORDANCE WITH NFPA STANDARDS. EMPTY CONTAINERS MAY CONTAIN FLAMMABLE LIQUID OR VAPOR RESIDUE. DO NOT CUT,WELD,SOLDER,DRIL

L,GRIND OR EXPOSE  
CONTAINERS TO HEAT,FLAME OR OTHER SOURCES OF IGNITION.

===== Exposure Controls/Personal Protection =====

Respiratory Protection:USE AN APPROPRIATE FITTED RESPIRATOR IF  
EXPOSURES EXCEED PEL/TLV VALUES. THE TYPE OF RESPIRATORY PROTECTION  
SELECTED WILL DEPEND UPON THE CONDITIONS OF USE. OBSERVE OSHA  
REGULATIONS FOR RESPIRATORY PROTECTION.

Ventilation:PROVIDE MECHANICAL EXHAUST SUFFICIENT TO MAINTAIN AIRBORNE  
CONCENTRATIONS BELOW THEIR PEL/  
TLV VALUES.

Protective Gloves:WEAR IMPERVIOUS PROTECTIVE GLOVES.

Eye Protection:CHEM SAFETY GLASSES,SPLASH-PROOF GOGGLES

Other Protective Equipment:PROPER CHEM RESISTANT APRON & IMPERVIOUS  
CLOTHING TO PREVENT SKIN CONTACT.EMERGENCY EYEWASH FACILITIES &  
SAFETY SHOWER.

Work Hygienic Practices:WASH HANDS AND FACE THOROUGHLY AFTER HANDLING  
THIS PRODUCT AND BEFORE EATING, DRINKING OR SMOKING.

Supplemental Safety and Health

\*\*INHALATION:REMOVE VICTIM TO FRESH AIR.PROVIDE OXYGEN IF BREATHING IS

DIFFICULT.GIVE ARTIFICIAL RESPIRATION IF NOT BREATHING.GET IMMEDIATE  
MED ATTENTION.INGESTION:DILUTE BY GIVING PLENTY OF WATER TO DRINK,IF  
VICTIM IS CONSCIOUS AND ALERT.NEVER GIVE ANYTHING BY MOUTH TO A  
DROWSY,UNCONSCIOUS,OR CONVULSING PERSON.GET MED ATTENTION.

===== Physical/Chemical Properties =====

Vapor Pressure:< 1

Vapor Density:> AIR

Spec Gravity:> 1.5

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER-GRAY LIQUID

Percent Volatiles by Volume:< 25

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===== Stability and Reactivity Data =====

Stability Indicator/Materials to Avoid:YES

INCOMPATIBLE WITH STRONG OXIDIZERS, ACIDS, BASES.

Stability Condition to Avoid:STORAGE IN OPEN CONTAINERS,EXPOSURE TO OPEN  
FLAME OR UNCONTROLLED EXPOSURE TO HEAT,MIXING WITH CURING AGENTS.

Hazardous Decomposition Products:CO<sub>2</sub>,CO,ALDEHYDES,ORGANIC  
ACIDS,ACRYLATES/OTHER ORGANIC SUBSTANCES MAY BE FORMED.THE CHEMICAL  
NATURE/QUANTITY OF DECOMPOSITION\*

===== Disposal Considerations =====

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Waste Disposal Methods:DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE AND  
LOCAL REGULATIONS.

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