

PARKER HANNIFIN CORPORATION CHOMERICS DIVISION -- CHO-SHIELD 596, PART A --
5999-01-192-8825

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

Product ID:CHO-SHIELD 596, PART A

MSDS Date:06/24/1999

FSC:5999

NIIN:01-192-8825

Status Code:A

Kit Part:Y

MSDS Number: CLNTP

=== Responsible Party ===

Company Name:PARKER HANNIFIN CORPORATION CHOMERICS DIVISION

Address:77 DRAGON COURT

City:WOBURN

State:MA

ZIP:01888

Count

ry:US

Info Phone Num:617-935-4850

Emergency Phone Num:(781) 935-4850

Resp. Party Other MSDS Num.:596A

Preparer's Name:CHOMERICS SAFETY DEPT

CAGE:18565

=== Contractor Identification ===

Company Name:FOXTRONIX

Address:2240 E CENTRAL AVE

Box:City:MIAMISBURG

State:OH

ZIP:45342-3629

Country:US

Phone:(937) 866-2112

Contract Num:SP0905-01-M-5723

CAGE:3T833

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

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Composition/Information on Ingredients
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Ingred Name:SILVER
CAS:7440-22-4
RTECS #:VW3500000
Minumum % Wt:65.
Maxumum % Wt:75.
OSHA PEL:0.01 MG/M3
ACGIH TLV:0.1 MG/M3
EPA Rpt Qty:1 LB
DOT Rpt Qty:1 LB

Ingred Name:EPOXY RESIN
CAS:25036-25-3
< Wt:15.

Ingred Name:TOLUENE
CAS:108-88-3
RTECS #:XS5250000
< Wt:15.
OSHA PEL:200 PPM TWA
OSHA STEL:500 PPM
ACGIH TLV:188 MG/M3;50 PPM
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:METHYL ISO-BUTYL KETO
NE
CAS:108-10-1
RTECS #:SA9275000
< Wt:10.
OSHA PEL:410 MG/M3;100 PPM
ACGIH TLV:205 MG/M3;50 PPM
ACGIH STEL:307 MG/M3;75 PPM
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:TALC
CAS:14807-96-6
RTECS #:WW2710000
< Wt:2.
OSHA PEL:20 MPPCF TWA
ACGIH TLV:2 MG/M3

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Hazards Identification
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Health Hazards Acute and Chronic:ACUTE-EYE: CONTACT MAY CAUSE MODERATE
EYE IRRITATION. SKIN: PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE
DEFATTING O

R DRYING OF THE SKIN WHICH MAY LEAD TO IRRITATION AND/OR DERMATITIS (RASH). MAY BE ABSORBED THROUGH THE SKIN. INHALATION: INHALATION OF HIGH CONCENTRATIONS OF PRODUCT SOLVENTS MAY CAUSE RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM EFFECTS. INHALATION OF EXTREMELY HIGH CONCENTRATIONS OF TOLUENE MAY CAUSE HEART IRREGULARITIES & CARDIAC SENSITIZATION. INGESTION: HARMFUL IF INGESTED. CHRONIC: SILVER MAY CAUSE ARGYRIA. MIBK & TOLUENE MAY CAUSE LIVER & KIDNEY TOXICITY/

DAMAGE, HEARING LOSS.

Effects of Overexposure: EYE: IRRITATION. SKIN: DEFATTING OR DRYING OF THE SKIN WHICH MAY LEAD TO IRRITATION AND/OR DERMATITIS (RASH). MAY BE ABSORBED THROUGH THE SKIN. INHALATION: INHALATION OF HIGH CONCENTRATIONS OF PRODUCT SOLVENTS MAY CAUSE RESPIRATORY IRRITATION AND CENTRAL NERVOUS SYSTEM EFFECTS PROGRESSING FROM HEADACHE, DIZZINESS, STAGGERING GAIT AND CONFUSION TO UNCONSCIOUSNESS, COMA, AND DEATH. INHALATION OF EXTREMELY HIGH CONCENTRATIONS OF TOLUENE MAY CAUSE HEART IRREGULARITIES & CARDIAC SENSITIZATION. TALC DUST MAY CAUSE LUNG DAMAGE.

Medical Conditions Aggravated by Exposure: PREEXISTING RESPIRATORY CONDITIONS MAY BE AGGRAVATED.

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

First Aid: EYE: IMMEDIATELY FLUSH THE EYES WITH LARGE AMOUNTS OF WATER OCCASIONALLY LIFTING THE UPPER & LOWER EYELIDS. GET MEDICAL ATTENTION IF IRRITATION PERSISTS. SKIN: REMOVE CONTAMINATED CLOTHING. WASH SKIN WITH SOAP & WATER FOR AT LEAST 15 MINUTES. GET IMMEDIATE MEDICAL ATTENTION IF IRRITATION PERSISTS. INHALATION: REMOVE TO FRESH AIR. GET IMMEDIATE MEDICAL ATTENTION IF IRRITATION PERSISTS, BREATHING BECOMES DIFFICULT OR IF SYMPTOMS DEVELOP. INGESTION: GET MEDICAL ATTENTION. DO NOT INDUCE VOMITING, POTENTIAL ASPIRATION HAZARD. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS, DROWSY OR CONVULSING PERSON.

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

Flash

Point Method: TCC

Flash Point: =7.2C, 45.F

BASED ON TOLUENE

Lower Limits: 1.0

Upper Limits: 7.0

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

Fire Fighting Procedures: USE SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. IF LARGE QUANTITIES OF MATERIAL ARE INVOLVED, EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

Unusual Fire/Explosion Hazard: DECOMPOSITION & COMBUSTION PRODUCTS MAY BE TOXIC. FLAMMABLE LIQUID CAN FORM FLAMMABLE/EXPLOSIVE MIXTURE IN

AIR AT OR ABOVE THE FLASH POINT TEMPERATURE. THIS PRODUCT CONTAINS SOLVENT WITH VAPORS THAT ARE HEAVIER THAN AIR & CAN TRAVEL ALONG THE GROUND TO AN IGNITION SOURCE, RESULTING IN A FLASHBACK TO THE SOURCE.

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

Spill Release Procedures:EVACUATE PERSONNEL OR ISOLATE THE SPILL AREA. ELIMINATE ALL SOURCES OF IGNITION. VENTILATE THE AREA USING EXPLOSION-PROOF EQUIPMENT. USE ONLY TOOLS APPROVED FOR USE IN FLammable ENVIRONMENTS. PREVENT THE RELEASE FROM ENTERING SEWERS OR WATERWAYS. COLLECT MATERIAL FOR REUSE OR SALVAGE. ABSORB REMAINING SPILL WITH INERT MATERIAL & TRANSFER TO A CONTAINER FOR DISPOSAL.

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

Handling and Storage Precautions:PREVENT CONTACT WITH EYES. DO NOT ALLOW SKIN CONTACT. SKIN ABSORPTION PRESENTS A SIGNIFICANT ROUTE OF EXPOSURE TO THIS PRODUCT. AVOID EXPOSURE BY INHALATION. WASH THOROUGHLY

AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. USE WITH ADEQUATE VENTILATION.

Other Precautions:CONTROL STATIC ELECTRICITY ACCUMULATION AND DISCHARGE BY EFFECTIVELY GROUNDING AND BONDING CONTAINERS WHEN TRANSFERRING LIQUIDS, AND DURING STORAGE AND USE. THE USE OF EXPLOSION-PROOF EQUIPMENT IS RECOMMENDED AND MAY BE REQUIRED. STORE IN A COOL, DRY LOCATION WITH ADEQUATE VENTILATION. STORE IN TIGHTLY CLOSED CONTAINER

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

Respiratory Protection:USE NIOSH/MSHA APPROVED RESPIRATORY PROTECTION IF ADEQUATE EXHAUST VENTILATION IS NOT PROVIDED OR AIR SAMPLING INDICATED EXPOSURE LIMITS ARE EXCEEDED. THE TYPE OF RESPIRATOR SELECTED WILL DEPEND ON THE CONDITIONS OF USE. RESPIRATORY PROTECTION PROGRAMS MUST COMPLY WITH 29 CFR 1910.134.

Ventilation:PROVIDE LOCAL EXHAUST VENTILATION TO CAPTURE VAPORS OR MIST GENERATED BY THE PROCESS. (SEE SUPPLEMENTAL)

Protective Gloves:WEAR PROTECT

IVE GLOVES, IF APPROPRIATE

Eye Protection:SAFETY EYE WEAR INCLUDING SAFETY GLASSES WITH SIDE SHIELDS & CHEMICAL GOGGLES

Other Protective Equipment:CHEMICAL RESISTANT CLOTHING TO PREVENT SKIN CONTACT AND POSSIBLE SKIN ABSORPTION.

Work Hygienic Practices:WASH THOROUGHLY AFTER HANDLING AND BEFORE EATING, DRINKING OR SMOKING. REMOVE CONTAMINATED CLOTHING OR SHOES AS SOON AS PRACTICAL AND THOROUGHLY CLEAN BEFORE REUSE.

Supplemental Safety and Health

USE EXPLOSION-PROOF EXHAUST VENTILATION EQUIPMENT UNLESS A PROCESS AND

EQUIPMENT EVALUATION INDICATES THIS ACTION IS NOT REQUIRED.

VENTILATION MUST BE SUFFICIENT TO MAINTAIN AIRBORNE LEVELS BELOW THEIR EXPOSURE LIMITS. TWO PART KIT, SAME NSN, PART A & B.

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

HCC:F2

Vapor Density:>AIR

Spec Gravity:>1

Solubility in Water:INSOLUBLE

Appearance and Odor:SILVER LIQUID

Percent Volatiles by Volume:APPROX. 12

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

Stability Indicator/Materials to Avoid:YES

STRONG OXIDIZERS, ACIDS AND BASES.

Stability Condition to Avoid:STORAGE IN OPEN CONTAINERS, EXPOSURE TO HEAT/SPARKS/OPEN FLAME OR EXPOSURE TO INCOMPATIBLE SUBSTANCES.

Hazardous Decomposition Products:THERMAL OR CHEMICAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE, CARBON DIOXIDE, SILVER COMPOUNDS, AND TRACES OF INCOMPLETELY BURNED CARBON PRODUCTS.

Conditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxic

ological Information =====

Toxicological Information:COMPLETE DATA NOT YET AVAILABLE.

===== Ecological Information =====

Ecological:COMPLETE DATA NOT YET AVAILABLE.

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

Waste Disposal Methods:COMPLETE DATA NOT YET AVAILABLE. DISPOSAL MUST BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

===== MSDS Transport Information =====

Transport

Information:COMPLETE DATA NOT YET AVAILABLE.

===== Regulatory Information =====

SARA Title III Information:SARA 313 CHEMICALS: SILVER 7440-22-4,
TOLUENE 108-88-3, METHYL ISOBUTYL KETONE (MIK) 101-10-1.

Federal Regulatory Information:TSCA INVENTORY: ALL COMPONENTS OF THIS
PRODUCT ARE LISTED ON THE TSCA INVENTORY.

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