

ATOFINA CHEMICALS, INC. -- 00683, TURCO 4460-BK -- 6850-01-406-0408

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Product Identification  
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Product ID:00683, TURCO 4460-BK

MSDS Date:07/18/2000

FSC:6850

NIIN:01-406-0408

Status Code:A

MSDS Number: CLGZW

=== Responsible Party ===

Company Name:ATOFINA CHEMICALS, INC.

Address:2000 MARKET STREET

City:PHILADELPHIA,

State:PA

ZIP:19103

Country:US

Info Phone Num:800-848-0085

Emergency Phone N

um:703-527-3887

Chemtrec Ind/Phone:(800)424-9300

CAGE:UO550

=== Contractor Identification ===

Company Name:ATOFINA CHEMICALS, INC.

Address:2000 MARKET STREET

Box:City:PHILADELPHIA,

State:PA

ZIP:19103

Country:US

Phone:800-848-0085

CAGE:UO550

Company Name:CHEMICAL SPECIALISTS AND DEVELOPMENT

Address:2275 TUCKER INDUSTRIAL RD

Box:City:TUCKER

State:GA

ZIP:30084

Country:US

Phone:770-938-4513/FAX 770-938-3966

Contract Num:SP0450-01-M-ZE75

CAGE:1MDA6

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Composition/Information on Ingredient  
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ts =====

Ingred Name:PETROLEUM NAPHTHA  
CAS:64742-89-8  
Minumum % Wt:40.  
Maxumum % Wt:50.

Ingred Name:TOLUENE  
CAS:108-88-3  
RTECS #:XS5250000  
Minumum % Wt:25.  
Maxumum % Wt:35.  
OSHA PEL:SEE TABLE Z-2  
ACGIH TLV:188 MG/M3;50 PPM  
EPA Rpt Qty:1000 LBS  
DOT Rpt Qty:1000 LBS

Ingred Name:ETHYL ACETATE  
CAS:141-78-6  
RTECS #:AH5425000  
Minumum % Wt:15.  
Maxumum % Wt:25.  
OSHA PEL:1400 MG/M3;400 PPM  
ACGIH TLV:1440 MG/M3;400 PPM  
EPA Rpt Qty:5000 LBS  
DOT Rpt Qty:5000 LBS

Ingred Name:METHYL ISOBUTYL KETO  
NE  
CAS:108-10-1  
RTECS #:SA9275000  
Minumum % Wt:15.  
Maxumum % Wt:25.  
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:ISOPROPANOL  
CAS:67-63-0  
RTECS #:NT8050000  
Minumum % Wt:5.  
Maxumum % Wt:15.  
OSHA PEL:980 MG/M3;400 PPM  
ACGIH TLV:983 MG/M3;400 PPM  
ACGIH STEL:1230 MG/M3;500 PPM

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

Health Hazards Acute and Chronic:BASED ON ITS COMPOSITION, IT IS

ANTICIPATED TO BE IRRITATING TO THE EYES & RESPIRATORY TRACT, PRODUCING EYE DAMAGE IF NOT REMOVED PROMPTLY, & MAY BE RAPIDLY ABSORBED AFTER INHALATION EXPOSURE & SKIN CONTACT. PROLONGED OR REPEATED CONTACT REMOVES OILS FROM THE SKIN & MAY DRY SKIN. ALTHOUGH THIS MIX IS EXPECTED TO HAVE A LOW LEVEL OF LETHALITY, INTENTIONAL EXPOSURE TO A COMPONENT BY REPEATED INHALATION HAS RESULTED IN BRAIN DAMAGE. MILD TO SEVERE LUNG INJURY MAY OCCUR IF DRAWN INTO THE LUNGS (ASPIRATED) DURING SWALLOWING OR VOMITING. IN SEVERE CASES, DEATH DUE TO RESPIRATORY ARREST MAY OCCUR, OR PNEUMONIA MAY DEVELOP.

Effects of Overexposure: PROLONGED OR REPEATED CONTACT CAUSE IRRITATION, REDNESS & RASH. OVEREXPOSURE TO VAPOR MAY CAUSE POSSIBLE EFFECTS SUCH AS HEADACHES, FATIGUE, LOSS OF COORDINATION, DECREASES IN VISUAL ACCURACY, DIZZINESS, & NAUSEA. EXTREME EXPOSURES MAY PRODUCE NAUSEA, VOMITING, IRREGULAR HEARTBEAT, EXTREME WEAKNESS, TREMORS, IMPAIRED SPEECH, HEARING & VISION, AS WELL AS PRONOUNCED LOSS OF COORDINATION & IMPAIRMENT OF REACTION TIME. LONG-TERM, REPEATED EXPOSURE MAY PRODUCE NERVOUSNESS, MUSCULAR FATIGUE & PERSISTENT SLEEPINESS. IF SWALLOWED MAY CAUSE MOUTH & THROAT IRRITATION, NAUSEA, VOMITING & CNS EFFECTS. SYMPTOMS OF INJURY ARE INCREASED BREATHING.

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

First Aid: IF IN EYES, IMMEDIATELY FLUSH WITH PLENTY OF WATER FOR 15 MINS. GET MEDICAL AID. IF ON SKIN, IMMEDIATELY FLUSH WITH PLENTY OF WATER. REMOVE CONTAMINATED CLOTHING & SHOES. GET MEDICAL AID. WASH CLOTHING BEFORE REUSE. DESTROY CONTAMINATED SHOES. IF SWALLOWED, DO NOT INDUCE VOMITING. GIVE WATER TO DRINK. GET MEDICAL AID IMMEDIATELY. NEVER GIVE ANYTHING BY MOUTH TO AN UNCONSCIOUS PERSON. IF INHALES, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET MEDICAL AID.

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

Flash Point Method: TCC  
Flash Point: -3.7C, 25.F  
Extinguishing Media: USE, FOAM, CARBON DIOXIDE OR DRY CHEMICAL.  
Fire Fighting Procedures: FIRE FIGHTERS AND OTHERS WHO MAY BE EXPOSED TO PRODUCTS OF COMBUSTION SHOULD WEAR FULL FIRE FIGHTING TURN OUT GEAR (FULL BUNKER GEAR) AND SELF-CONTAINED BREATHING APPARATUS (PRESSURE DEMAND NIOSH APPROVED OR EQUIVALENT). FIRE FIGHTING EQUIPMENT SHOULD BE THOROUGHLY DECONTAMINATED AFTER USE.

Unusual Fire/Explosion Hazard: VAPORS ARE HEAVIER THAN AIR AND MAY TRAVEL ALONG THE GROUND OR BE MOVED BY VENTILATION AND IGNITED BY HEAT, PILOT LIGHTS, AND OTHER FLAMES AND IGNITION SOURCES AT LOCATIONS DISTANT FROM MATERIAL HANDLING POINT.

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

Spill Release Procedures: EXTINGUISH OR TURN OFF ALL IGNITION SOURCES. VENTILATE THE SPACE INVOLVED. WEAR APPROPRIATE PERSONAL PROTECTION EQUIPMENT AS INDICATED IN CONTROL MEASURES. CONTAIN SPILL WITH INERT MATERIALS. CONSTRUCT A DIKE TO PREVENT SPREADING. COLLECT WITH NON-SPARKING TOOLS TO A SUITABLE CONTAINER. PREVENT WATERWAY CONTAMINATION. ABSORB LIQUID ONTO INERT ABSORBENT & PLACE IN DOT APPROVED DRUMS FOR DISPOSAL.

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

Handling and Storage Precautions: DO NOT GET IN EYES, ON SKIN OR CLOTHING. AVOID BREATHING VAPOR/MIST. KEEP CONTAINER CLOSED. USE ONLY WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. KEEP AWAY FROM HEAT, SPARKS & FLAME. USE GROUNDING/BONDING CONNECTION WHEN TRANSFERRING MATERIAL TO PREVENT STATIC DISCHARGES/FIRE/EXPLOSION.

Other Precautions: STORAGE-STORE IN A COOL, DRY PLACE. AVOID EXCESSIVE HEAT. STORE OUT OF DIRECT SUNLIGHT IN A COOL, WELL-VENTILATED PLACE.

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

Respiratory Protection: AVOID BREATHING VAPOR OR MIST. WHEN AIRBORNE EXPOSURE LIMITS ARE EXCEEDED (SEE BELOW), USE NIOSH APPROVED RESPIRATORY PROTECTION EQUIPMENT APPROPRIATE TO THE MATERIAL AND/OR ITS COMPONENTS. CONSULT RESPIRATOR MANUFACTURER TO DETERMINE APPROPRIATE TYPE EQUIPMENT FOR GIVEN APPLICATION. OBSERVE RESPIRATOR USE LIMITATIONS SPECIFIED BY NIOSH OR THE MANUFACTURER.

Ventilation: INVESTIGATE ENGINEERING TECHNIQUES TO REDUCE EXPOSURES BELOW AIRBORNE EXPOSURE LIMITS. PROVIDE VENTILATION IF NECESSARY TO CONTROL EXPOSURE LEVELS.

Protective Glo

ves:PROTECTIVE GLOVES, CONSULT GLOVE MANUFACTURER.

Eye Protection:WEAR A FACE SHIELD, CHEMICAL GOGGLES.

Other Protective Equipment:EYE FLUSHING EQUIPMENT. APPROPRIATE CHEMICAL RESISTANT PROTECTIVE CLOTHING.

Work Hygienic Practices:RINSE CONTAMINATED SKIN PROMPTLY. WASH CONTAMINATED CLOTHING AND CLEAN PROTECTIVE EQUIPMENT BEFORE REUSE.WASH SKIN THOROUGHLY AFTER HANDLING.

Supplemental Safety and Health

SPILL: CONSULT A REGULATORY SPECIALIST TO DETERMINE APPROPRIATE STATE OR LOCAL R

PORTING REQUIREMENTS, FOR ASSISTANCE IN WASTE CHARACTERIZATION &/OR HAZARDOUS WASTE DISPOSAL & OTHER REQUIREMENTS LISTED IN PERTINENT ENVIRONMENTAL PERMITS.

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

HCC:F2

Boiling Pt:=76.7C, 170.F

Vapor Pres:40 MMHG

Vapor Density:>1

Spec Gravity:0.81

Evaporation Rate & Reference:>1

Solubility in Water:APPRECIABLE

Appearance and Odor:WATER-WHITE CLEAR LIQUID, ESTER/KETONE ODOR

Percent Volatiles by Volume:100%

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

Stability Indicator/Materials to Avoid:YES

CONTACT WITH STRONG ACIDS, STRONG ALKALIES, STRONG OXIDIZERS.

Stability Condition to Avoid:THIS MATERIAL IS CHEMICALLY STABLE UNDER SPECIFIED CONDITIONS OR STORAGE, SHIPMENT AND/OR USE. SEE HANDLING AND STORAGE SECTION OF THIS MSDS FOR SPECIFIED CONDITIONS.

Hazardous Decomposition Products:THERMAL DECOMPOSITION MAY PRODUCE CARBON MONOXIDE, DIOXIDE AND OTHER TOXIC ORGANIC COMPOUND.

Co

nditions to Avoid Polymerization:WILL NOT OCCUR.

===== Toxicological Information =====

Toxicological Information:PETROLEUM NAPHTHA-WORKPLACE EXPERIENCE INDICATES THAT SHORT-TERM OVEREXPOSURE CAUSES SKIN, EYE & UPPER RESPIRATORY TRACT IRRITATION, NAUSEA & DIZZINESS. REPEATED SKIN CONTACT IN THE WORKPLACE HAS BEEN REPORTED TO CAUSE DEFATTING RESULTING IN DERMATITIS.. SKIN ALLERGY WAS OBSERVED IN GUINEA PIGS FOLLOWING REPEATED SKIN CONTACT. FOLLOW

ING REPEATED INHALATION

EXPOSURE, KIDNEY CHANGES WERE OBSERVED IN MALE RATS. KIDNEY TUBULE EFFECTS WERE OBSERVED IN LONG-TERM INHALATION STUDIES IN GUINEA PIGS, PETROLEUM NAPHTHA.

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Ecological Information  
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Ecological:CHEMICAL FATE INFORMATION: THIS MATERIAL IS READILY DEGRADED BY ACTIVATED SLUDGE & BY BACTERIA IN ESTUARINE & MARINE ENVIRONMENTS. IF IS BIODEGRADADED BY A VARIETY OF SOIL MICROORGANISMS USING THIS MA TERIAL (UP T O 0.1%) AS THE SOLE CARBON SOURCE. BIODEGRADABILITY RANGED FROM 63% TO 86% AFTER UP TO 20 DAYS USING DOMESTIC FILTERED WASTE WATER EFFLUENT. THIS MATERIAL IS NOT EXPECTED TO BIOCONCENTRATE IN FISH OR OTHER AQUATIC ORGANISMS. THE LOG OCTANOL/WATER PARTITION COEFFICIENT (LOG KOW) IS 2.79.

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Disposal Considerations  
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Waste Disposal Methods:RECOVER, RECLAIM OR RECYCLE WHEN PRACTICAL. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE & LOCAL REGULATIONS.

NOTE: CHEMICAL ADDITIONS TO, PROCESSING OF, OR OTHERWISE ALTERING THIS MATERIAL MAY MAKE T HIS WASTE MANAGEMENT INFORMATION INCOMPLETE, INACCURATE, OR OTHERWISE INAPPROPRIATE. STATE & LOCAL WASTE DISPOSAL REGS MAY BE DIFFERENT FROM FEDERAL.

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MSDS Transport Information  
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Transport Information:DOT NAME: FLAMMABLE LIQUID, NOS. DOT TECHNICAL NAME: (TOLUENE, ETHYL ACETATE). DOT HAZARD CLASS: 3. UN NUMBER: UN1993. DOT PACKING GROUP: PG II. RQ: "BLANK".

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Regulatory Information  
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SARA Title III Information:HAZARD CATEGORIES UNDER CRITERIA OF SARA TITLE III RULES (40 CFR PART 370): IMMEDIATE (ACUTE) HEALTH: Y. DELAYED (CHRONIC) HEALTH: Y. FIRE: Y. REACTIVE : N. SUDDEN RELEASE OF PRESSURE: N. SARA REPORTA BLE QUANTITIES: METHYL ISOBUTYL KETONE: CERCLA=5000 LBS. TOLUENE=1000 LBS. ETHYL ACETATE=5000 LBS. SARA TITLE III, SECTION 313: ISOPROPANOL, METHYL ISOBU

TYL KETONE,  
TOLUENE.

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

State Regulatory Information:CALIFORNIA PROP 65-DEVELOPMENTAL TOXIN:  
TOLUENE. MASSACHUSETTES RIGHT TO KNOW: ETHYL ACETATE, ISOPROPANOL,  
METHYL ISOBUTYL KETONE, TOLUENE. NEW JERSEY RIGHT TO KNOWN: ETHYL  
ACETATE, ISOPROPANOL, METHY L ISOBUTYL KETONE, TOLUENE.

PENNSYLVANIA ENVIRONMENTAL HAZARD: ETHYL ACETATE, ISOPROPANOL,  
METHYL ISOBUTYL KETONE, TOLUENE.

PENNSYLVANIA RIGHT TO KNOW: ETHYL  
ACETATE, ISOPROPANOL, METHYL ISOBUTYL KETO NE, TOLUENE.

===== Other Information =====

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assume responsibility for the suitability of this information to their  
particular situation.