

ARCO CHEMICAL COMPANY, DIV OF ATLANTIC RICHFIELD -- STYRENE MONOMER --
6810-00-987-4126

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

Product ID:STYRENE MONOMER

MSDS Date:01/03/1991

FSC:6810

NIIN:00-987-4126

MSDS Number: BJYKX

=== Responsible Party ===

Company Name:ARCO CHEMICAL COMPANY, DIV OF ATLANTIC RICHFIELD

Address:3801 WEST CHESTER PIKE

Box:7258

City:NEWTOWN SQUARE

State:PA

ZIP:19073

Country:US

Info

Phone Num:800-321-7000

Emergency Phone Num:215-353-8300/800-424-9300

CAGE:3D253

=== Contractor Identification ===

Company Name:ARCO CHEMICAL COMPANY, DIV OF ATLANTIC RICHFIELD

Address:1500 MARKET STREET

Box:7258

City:PHILADELPHIA

State:PA

ZIP:19101

Country:US

Phone:215-353-8300,CHEMTREC 800-424-9300

CAGE:3D253

Company Name:TEXTILE CHEMICAL CO

Address:POTTSVILLE PIKE & HULLER LANE

Box:City:READING

State:PA

ZIP:19605

Country:US

Phone:215-926-4151

CAGE:2H096

===== Composition/Information

on Ingredients =====

Ingred Name:STYRENE, MONOMER (SARA III)
CAS:100-42-5
RTECS #:WL3675000
Fraction by Wt: 99.8%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:100 PPM
ACGIH TLV:S,50PPM/100STEL;9394
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:P-TERTIARY BUTYL CATECHOL
CAS:98-29-3
Fraction by Wt: 10-60%PP
Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:ORAL LD50 (RAT) IS 5000 MG/KG
Routes of Entry: Inha
lation:YES Skin:YES Ingestion:YES
Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
Health Hazards Acute and Chronic:ACUTE:INHAL:IRRIT TO RESP TRACT &
OTHER MUC MEM. EYE:MODERATE IRRIT. SKIN:DELAYED IRRIT.
INGEST:SLIGHT HEALTH HAZARD IF SKIN ABSORPTION EXPOSURE.
CHRONIC:CNS DEPRESSANT, ALLERGIC SENSITIZER, ASPIRATIO N HAZARD.
Explanation of Carcinogenicity:PER IARC STYRENE "IS PROBABLY
CARCINOGENIC TO HUMANS" HOWEVER "NO ADEQUATE EVIDENCE" IS
AVAILABLE.
Effects of Over
exposure:INHAL:COUGHING, SHORTNESS OF BREATH, SNEEZING,
SORE THROAT. EYE:BURNING SENSATION, TEARING, REDNESS OR SELLING.
SKIN:BLISTERING, REDNESS, SWELLING, ITCHING, DISCOMFORT. OTHER
SYMPTOMS MAY BE NAUSEA, L OSS OF APPETITE, CNS DEPRESSION AND
GENERAL WEAKNESS.
Medical Cond Aggravated by Exposure:PRE-EXISTING CNS DISORDERS.

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

First Aid:INHAL:REMOVE TO FRESH AIR.GIVE OXYGEN OR ARTIFICIAL RESP AS
NEEDED. EYE

:RINSE W/WATER FOR 20MIN OPENING EYELIDS. SKIN:REMOVE
CONTAMINATED CLOTHING. WASH THOROUGHLY W/MILD SOAP/WATER. FLUSH
W/LUKEWARM WATER FOR 15MINS. IF STICKY USE WATERLESS CLEANER
FIRST. INGEST:IF LG AMT GIVE LUKEWARM WATER "PINT" IF
CONSCIOUS/ALERT. DO NOT INDUCE VOMITING. SEEK MEDICAL ATTENTION IN
ALL CASES.

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

Flash Point Method:CC
Flash Point:90.0F,32.2C
Lower Limits:1.1
Upper Limits:6.1

Extinguishing Medi

a:DRY CHEMICL, CARBON DIOXIDE, FOAM, USE WATER
SPRAY/WATER FOG FOR COOLING.

Fire Fighting Procedures:DON'T ENTER FIRE AREA W/O PROPER PROTECTION.
FIGHT FIRE FROM SAFE DISTANCE/PROTECTED LOCATION. HEAT MAY INCREASE
CONTAINER'S PRESSURE RUPTURING & SPREADING FIRE

Unusual Fire/Explosion Hazard:HEAT/EXPSORUE TO AIR/IMPURITIES CAUSE
SPONTANEOUS REACTION/CREATE HEAT/PRESSURE.VAPORS MAY CONDENSE AS
SOLIDS,PLUGGING PRESSURE RELIEF DEVICES,CAUSING RUPTURE.

===== Accide
ntal Release Measures =====

Spill Release Procedures:WEAR PROPER SAFETY EQUIP.REMOVE IGNITION
SOURCES.PREVENT FLOW TO SEWERS/PUBLIC WATERS.RESTRICT WATER USE FOR
CLEANUP;MATERIAL FLOATS/INSOLUBLE.SOAK SM SPILLS W/INERT SOLIDS &
COLLECT HARDEN SPILLS FOR DISPOSAL.REPORT ENVIRONMENTAL
AUTHORITIES.

Neutralizing Agent:SMALL QUANTITIES CAN BE REACTED WITH THE APPROPRIATE
HARDENER TO SOLIDIFY.

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

Han

dling and Storage Precautions:CHECK INHIBITOR LEVELS
PERIODICALLY.STORE TIGHTLY CLOSED VENTED CONTAINERS AWAY FROM
IGNITION SOURCES,STRONG OXIDIZERS.USE NON-SPARKING TOOLS.

Other Precautions:CAN SELF-REACT/POLYMERIZE/LIBERATE HEAT/RAISING TEMP
PRESSURE/POSSIBLE RUPTURE CONTAINER UNLESS PROPERLY INHIBITED.
AVOID CONDITIONS THAT REMOVES OXYGEN FROM STORED LIQUID.

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

Respiratory Protection:USE NIOSH/MSHA APPROVED AIR

-PURIFYING OR

SUPPLIED AIR RESPIRATOR AS APPROPRIATE.

Ventilation:LOCAL EXHAUST VENTILATION MAY BE REQUIRED TO MEET EXPOSURE STANDARD IN ADDITION TO GENERAL ROOM VENTILATION.

Protective Gloves:CHEM GLOVES (NOT RUBBER).

Eye Protection:CHEM SPLASH GOGGLES, FACE SHIELD.

Other Protective Equipment:APRON, SLEEVES, BOOTS, FULL HEAD/FACE PROTECTION. EYEWASH FOUNTAINS & SAFETY SHOWERS.

Work Hygienic Practices:WASH HANDS BEFORE EATING/DRINKING/SMOKING/TOILET FACILITIES.WASH CONTAMINATED

CLOTHING & SHOWER AFT WORK W/LOTS SOAP/WAT

Supplemental Safety and Health

DO NOT WEAR CONTACT LENS WHILE WORKING W/MATERIAL.

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

HCC:F4

Boiling Pt:B.P. Text:295F,146C

Melt/Freeze Pt:M.P/F.P Text:N/D

Vapor Pres:4.5

Vapor Density:3.6

Spec Gravity:0.90 @ 77F

Evaporation Rate & Reference:COMPLETE

Solubility in Water:NEGLIGIBLE

Appearance and Odor:COLORLESS LIQUID WITH AROMATIC, SWEET ODOR.

Percent Volatiles by Volume:100

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

Stability Indicator/Materials to Avoid:NO

OXIDIZERS, PEROXIDES, STRONG ACIDS, OLEUM, ALUMINUM CHLORIDE, ALKAL, METALGRAPHITE, PURE OXYGEN, VINYL POLYMERS.

Stability Condition to Avoid:AVOID HEAT, FLAME, CONTAMINANTS. CORROSIVE TO COPPER & COPPER ALLOYS. DISSOLVES RUBBER.

Hazardous Decomposition Products:EMITS ACRID FUMES, INCOMPLETE COMBUSTION MAY PRODUCE CARBON MONOXIDE AND CARBON DIOXIDE.

Conditions to Avoid Polymeriz

ation:PRODUCT IS STABLE W/AN APPROPRIATE

LEVEL OF INHIBITOR, BUT REACTIVE "UNSTABLE" WITHOUT. CONTACT ARCO SALES REP FOR INFO.

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

Waste Disposal Methods:CONTAMINATED MATERIAL MAY BE RCRA/OSHA HAZ WASTE DUE TO POTENTIAL FOR INTERNAL HEAT GENERATION. LANDFILL SOLIDS @ PERMITTED SITES. BURN CONC LIQ IN SYS THAT USE COMPATIBLE FUEL;DILUTE W/CLEAN LOW VISC OSITY FUEL. DISPOSE IAW FED/STATE/LOCALREGULATION

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