

CARBOLINE CO -- URETHANE CONVERTER 553, (0899B1NL) -- 8010-00N040379

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

Product ID:URETHANE CONVERTER 553, (0899B1NL)
MSDS Date:01/12/1996
FSC:8010
NIIN:00N040379
MSDS Number: CGRTG
=== Responsible Party ===
Company Name:CARBOLINE CO
Address:350 HANLEY INDUSTRIAL CT
City:ST LOUIS
State:MO
ZIP:63144-1599
Country:US
Info Phone Num:314-644-1000
Emergency Phone Num:412-681-6669;800-424-9300 (CHEMTREC)
CAGE:06634

=== Contractor Identification ===

Company Name:CARBOLINE CO
Address:350 S HANLEY INDUSTRIAL CT
Box:City:ST. LOUIS
State:MO
ZIP:63144-1599
Country:US
Phone:314-644-1000
CAGE:06634
Company Name:CARBOLINE CO TOCH DIV
Address:350 HANLEY INDUSTRIAL CT W
Box:City:ST. LOUIS
State:MO
ZIP:63144-1510
Country:US
Phone:314-644-1000
CAGE:16793

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

Ingred Name:ISOCYANIC ACID, HEXAMETHYLENE ESTER, POLYMERS; (POLYMERIC
(HDI))
CAS:28182-81-2
RTECS #:NQ9170000
Fraction by Wt: <75%
OSHA PEL:0.005 PPM (MFR)
ACGIH TLV:0.02 PPM STEL (MFR)

Ingred Name:ACETIC ACID, BUTYL ESTER; (BUTYL ACETATE) (CERCLA)
CAS:123-86-4
RTECS #:AF7350000
Fraction by Wt: <15%
OSHA PEL:150 PPM
ACGIH TLV:150 PPM;200 STEL
EPA Rpt Qty:5000 LBS
DOT Rpt Qty:5000 LBS

Ingred Name:XYLENE (SARA 313) (CERCLA). LD50:(ORAL,RAT) 4300 MG/KG.
CAS:1330-20-7
RTECS #:ZE2100000

Fraction by Wt: <10%
 OSHA PEL:100 PPM
 ACGIH TLV:100 PPM;150 STEL
 EPA Rpt Qty:1000 LBS
 DOT Rpt Qty:1000 LBS

Ingred Name:BENZENE, ETHYL-; (ETHYL BENZENE) (SARA 313)
 CAS:100-41-4
 RTECS #:DA0700000
 Fraction by Wt: <5%
 OSHA PEL:100 PPM
 ACGIH TLV:100 PPM;125 STEL
 EPA Rpt Qty:1000 LBS
 DOT Rpt Qty:1000 LBS

Ingred Name:HEXANE, 1,6-DIISOCYANATO-; (HEXAMETHYLENE DIISOCYANATE)
 (HDI ISOCYANATE) (CERCLA)
 CAS:822-06-0
 RTECS #:MO1740000
 Fraction by Wt: <2%
 Other REC Limits:0.02 PPM STEL (MFR)
 OSHA PEL:0.005 PPM (MFR)
 ACGIH TLV:0.005 PPM
 EPA Rpt Qty:1 LB
 DOT Rpt Qty:1 LB

Ingred Name:PIGMENT; (COLOR PIGMENT MIXTURE MAY CONTAIN INGS 7 - 10 IN
 VARYING AMOUNTS DEPENDING ON COLOR OF PRODUCT)
 OSHA PEL:N/K
 ACGIH TLV:N/K

Ingred Name:MAGNETITE
 CAS:1309-38-2
 RTECS #:OM4800000
 OSHA PEL:N/K
 ACGIH TLV:N/K

Ingred Name:TITANIUM OXIDE; (TITANIUM DIOXIDE)
 CAS:13463-67-7
 RTECS #:XR2275000
 OSHA PEL:15 MG/M3 TDUST
 ACGIH TLV:10 MG/M3 TDUST

Ingred Name:CARBON BLACK
 CAS:1333-86-4
 RTECS #:FF5800000
 OSHA PEL:3.5 MG/M3
 ACGIH TLV:3.5 MG/M3

Ingred Name:OTHER INGREDIENTS; (OTHER PARTICULATES NOT OTHERWISE
 REGULATED)
 OSHA PEL:N/K
 ACGIH TLV:N/K

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

LD50 LC50 Mixture:SEE INGREDIENT 3.
 Routes of Entry: Inhalation:YES Skin:YES Ingestion:YES
 Reports of Carcinogenicity:NTP:NO IARC:YES OSHA:NO
 Health Hazards Acute and Chronic:INHALATION:CONTAINS HDI POLYISOCYANATE

WHICH MAY CAUSE ALLERGIC RESPIRATORY REACTION, EFFECTS MAY BE PERMANENT. HARMFUL IF INHALED, MAY AFFECT BRAIN OR NERVOUS SYSTEM, CAUSING DIZZINESS, HEADACHE OR N AUSEA. MAY CAUSE NOSE AND THROAT IRRITATION. MAY CAUSE LUNG IRRITATION. CONTACT:MAY CAUSE EYE AND SKIN (EFTS OF OVEREXP)

Explanation of Carcinogenicity:CARBON BLACK:IARC MONOGRAPHS, VOL 65, PG 24-27, 1995:GROUP 2B.

Effects of Overexposure:HLTH HAZ:IRRITATION. MAY CAUSE ALLERGIC SKIN REACTION. NOTICE:REPORTS HAVE ASSOCIATED REPEATED & PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS W/PERMANENT BRAIN & NERVOUS SYSTEM DAMAGE.

Medical Cond Aggravated by Exposure:IF SENSITIZED TO ISOCYANATES OR OTHER CHEMICALS, DO NOT USE. SEE MD IF A MEDICAL CONDITION EXISTS.

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 ===== First Aid Measures =====
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First Aid:WHEN EXPOSED ALWAYS GET MEDICAL ATTENTION. EYES:FLUSH W/WATER FOR AT LEAST 15 MINUTES. SKIN:WASH W/SOAP & WATER. REMOVE CONTAMINATED CLOTHING & CLEAN BEFORE REUSE. INHAL:REMOVE TO FRESH AIR. PROVIDE O XYGEN IF BREATHING IS DIFFICULT. USE ARTIFICIAL RESPIRATION IF NOT BREATHING. GET MEDICAL ATTENTION. INGEST:DO NOT INDUCE VOMITING! ALWAYS GET MEDICAL ATTENTION.

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 ===== Fire Fighting Measures =====
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Flash Point Method:SCC
 Flash Point:91.0F,32.8C
 Lower Limits:1%
 Upper Limits:7.6%
 Extinguishing Media:DRY CHEMICAL, FOAM, CARBON DIOXIDE, WATER FOG.
 Fire Fighting Procedures:USE NIOSH APPROVED SCBA & FULL PROTECTIVE EQUIPMENT . EVACUATE HAZARD AREA OF UNPROTECTED PERS. COOL SURROUNDING CNTNRS W/WATER IN CASE OF FIRE EXPOS.
 Unusual Fire/Explosion Hazard:FLAMM LIQ. VAPS ARE HVR/AIR & WILL ACCUM. VAPS WILL FORM EXPLO CONCS W/AIR. VAPS TRAVEL LONG DISTS & WILL FLASHBACK. USE MECH VENT WHEN NEC TO KEEP PERCENT VAP BELOW LEL.

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 ===== Accidental Release Measures =====
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Spill Release Procedures:ELIM ALL IGNIT SOURCES. HNDLG EQUIP MUST BE GROUNDED TO PVNT SPARKING. EVACUATE AREA OF UNPROT PERS. WEAR APPROP PERSONAL PROT CLTHG & EQUIP. FOLLOW SAFE HNDLG & USE GUIDELINES IN SAFE HNDLG & USE INF O SECTION. CONTAIN & SOAK UP RESIDUAL W/ABSORB (CLAY/SAND). TAKE UP ABSORB MATL & SEAL TIGHTLY FOR PROPER DISP.

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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 ===== Handling and Storage =====
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Handling and Storage Precautions:KEEP AWAY FROM HEAT, SPARKS, OPEN FLAME & STRONG OXIDIZING AGENTS. KEEP CONTAINERS CLOSED. STORE IN COOL, DRY PLACE W/ADEQUATE VENTILATION.

Other Precautions:IF POURING OR TRANSFERRING MATERIALS, GROUND ALL CONTAINERS & TOOLS. DO NOT WELD, HEAT, CUT OR DRILL ON FULL OR EMPTY CONTAINERS. FOR INDUSTRIAL USE ONLY.

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 ===== Exposure Controls/Personal Protection =====
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Respiratory Protection:USE ONLY W/VENTILATION TO KEEP LEVELS BELOW EXPOSURE GUIDELINES. USER SHOULD TEST & MONITOR EXPOSURE LEVELS TO

INSURE ALL PERSONNEL ARE BELOW GUIDELINES. IF NOT SURE OR IF NOT
ABLE TO MONITOR, USE NIO SH APPROVED SUPPLIED AIR RESPIRATOR.

Ventilation:USE EXPLOSION-PROOF VENTILATION WHEN REQUIRED TO KEEP BELOW
HEALTH EXPOSURE GUIDELINES & LOWER EXPLOSION LIMIT (LEL).

Protective Gloves:IMPERVIOUS GLOVES.

Eye Protection:ANSI APPROVED CHEM WORKERS GOGGS .

Other Protective Equipment:ANSI APPRVD EYE WASH FOUNTAIN & DELUGE
SHOWER . RECOMMEND IMPERVIOUS CLTHG TO AVOID SKIN CONT. USE OF HAND
CLEANER IS REC.

Work Hygienic Practices:WASH W/SOAP & WATER BEFORE EATING, DRINKING,
APPLYING COSMETICS/USING TOILET FACILITES. IF MATL PENETRATES SKIN,
CHANGE GLOVES & CLTHG. LAUNDER CONTAM CLTHG BEFORE REUSE. LEATHER
SHOES CAN (SUPDAT)

Supplemental Safety and Health

HYGIENE PRACT: ABSORB & PASS THRU HAZ MATLS. CHECK SHOES CAREFULLY
AFTER SOAKING BEFORE REUSE.

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

Boiling Pt:B.P. Text:>259F,>126C

Vapor Density:HVR/AIR

Spec Gravity:1.07

Evaporation Rate & Reference:SLOWER THAN ETHER

Appearance and Odor:NONE SPECIFIED BY MANUFACTURER.

Percent Volatiles by Volume:29

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

Stability Indicator/Materials to Avoid:YES

AVOID CONTACT W/STRONG OXIDIZING AGENTS.

Stability Condition to Avoid:HEAT, SPARKS & OPEN FLAMES.

Hazardous Decomposition Products:CARBON MONOXIDE, NITROGEN OXIDES &
UNIDENTIFIED ORG CMPDS. CONSIDER ALL SMOKE & FUMES FROM BURNING
MATL AS VERY HAZ. WELDING, CUTTING/ABRASIVE GRINDING CAN CREATE
SMOKE & FUMES. DO NOT BREATHE.

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

Waste Disposal Methods:DISPOSE OF I/A/W LOCAL, STATE & FEDERAL
REGULATIONS.

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