

MORTON, AEROSPACE POLYMERS -- THIOKOL MC-236 ACCELERATOR -- 8030-00-723-5344
===== Product Identification =====

Product ID:THIOKOL MC-236 ACCELERATOR
MSDS Date:03/15/1996
FSC:8030
NIIN:00-723-5344
Kit Part:Y
MSDS Number: CGMGK
=== Responsible Party ===
Company Name:MORTON, AEROSPACE POLYMERS
Address:7341 ANACONDA AVE
City:GARDEN GROVE
State:CA
ZIP:92641-4208
Country:US
Info Phone Num:714-373-2837

Emergency Phone Num:800-424-9300(CHEMTREC)
Preparer's Name:DAVID WIENSCKOWSKI,DABT
CAGE:LO855
=== Contractor Identification ===
Company Name:MORTON INTERNATIONAL AEROSPACE POLYMER SYSTEMS
Address:7341 ANACONDA AVENUE
Box:City:GARDEN GROVE
State:CA
ZIP:92641
Country:US
Phone:714-373-2837
CAGE:0U317
Company Name:MORTON, AEROSPACE POLYMERS
Address:7341 ANACONDA AVE
Box:City:GARDEN GROVE
State:CA
ZIP:92641-4208
Country:US
Phone:714-373-2837
CAGE:LO855

===== Composition/Information on Ingr

edients =====

Ingred Name:MANGANESE OXIDE
CAS:1317-35-7
RTECS #:OP0895000
Fraction by Wt: 1-100%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 5 MG(MN)/M3
ACGIH TLV:5 MG (MN)/M3; 9596

Ingred Name:HYDROGENATED TERPHENYLS
CAS:61788-32-7
RTECS #:WZ6535000
Fraction by Wt: 10-30%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:0.5 PPM
ACGIH TLV:0.5 PPM; 9596

Ingred Name:1,3 DIPHENYL GUANIDINE,
CAS:102-06-7
RTECS #:MF0875000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:TER
PHENYL
CAS:26140-60-3
RTECS #:WZ6450000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:C 1.0 PPM
ACGIH TLV:C 0.53 PPM; 9596

Ingred Name:POLYOXYETHYLENE NONYL PHENYL PHOSPHATE
CAS:51811-79-1
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED

Ingred Name:SODIUM HYDROXIDE (CERCLA)
CAS:1310-73-2
RTECS #:WB4900000
Fraction by Wt: 1-5%
Other REC Limits:NONE RECOMMENDED
OSHA PEL:2 MG/M3
ACGIH TLV:C 2 MG/M3; 9596
EPA Rpt Qty:1000 LBS
DOT Rpt Qty:1000 LBS

Ingred Name:NON-HAZARDOUS

AND OTHER INGREDIENTS BELOW REPORTABLE LEVELS
(PROPRIETARY)

Fraction by Wt: BALANCE

Other REC Limits:NONE RECOMMENDED

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

LD50 LC50 Mixture:NONE SPECIFIED BY MANUFACTURER.

Routes of Entry: Inhalation:YES Skin:YES Ingestion:NO

Reports of Carcinogenicity:NTP:NO IARC:NO OSHA:NO

Health Hazards Acute and Chronic:CAUSES EYE/SKIN IRRIT.MAY CAUSE
ALLERGIC SKIN RX.DONT SWALLOW MAY CAUSE DIGESTIVE TRACT
IRRITATION.INHAL:M

AY CAUSE RESPIRATORY SYST IRRIT.EYE:CAUSES

MODERATE IRRIT.SKIN:CAUSES SLIGHT TO MILD IRRIT.MAY CAUSE SKIN
REACTIONS.INHAL:IRRIT EYE/SNOE/RESP TRACT.CAN CAUSE
DIZZ,HEAD,INCOORDINATION.INGEST:IRRIT MOUTH/(SIGN/SYMP)

Explanation of Carcinogenicity:PER MSDS:INGREDS NOT CARCINOGENIC BY
IARC/OSHA/NTP/ACGIH.

Effects of Overexposure:HEALTH:THROAT/RESP TRACT.CAN CAUSE
NAU,VOMIT,PAIN,STOMACH UPSET(DIARRHEA). EYE/SKIN/MOUTH/THROAT/RESP
TRACTGI TRACT IRRIT.NAU,VOMIT,PAIN,STOMACH UPS

ET,ALLERGIC SKIN RX,

Medical Cond Aggravated by Exposure:LIVER/KIDNEYS,LUNGS,SKIN,IMMUNE
SYSTE &/OR SPECIFIC CHEM ALLERGY. TARGET ORGANS:LIV.KIDNEY,NERVOUS
SYSTE,BLOOD-FORMING ORGANS,LUNGS,RESP SYS,REPRODUCTIVE
SYS,EYE,SKIN,IMMUNE SYSTEM.

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

First Aid:EYE:FLUSH W/LOTS OF H2O 15MINS.IRRIT OCCURS GET MED

ATTN.SKIN:REMOVE CONTAM CLOTH.WASH W/SOAP/WATER.IRRIT DVLPS GET MED

ATTN.INHAL:REMOVE TO FRESH AIR.SYMP TOM

OCUCR GET IMMED MED ATTN.NOT

BREATH GIVE ARTIFICIAL RESP.INGEST:SEEK MED ATTN.INDUCE VOMIT PER
DIRECTED BY MED PERSONNEL.DONT GIVE ANYTHING BY MOUTH IF

UNCONSC.NOTE TO DR:TREATMENT SHOULD BE DIRECTED AT PREVENTION,ADMIN
TO SYM,PROVIDE SUPPOR

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

Flash Point Method:SCC

Flash Point:>200F,>93C

Autoignition Temp:Autoignition Temp Text:NA

Lower Limits:NA

Upper Limits:NA

Extinguishing Media:SM FIRES:DRY CHEM,CARBON DIO

XIDE,WATER

SPRAY,FOAM.LG FIRES:WATERSPRAY,FOG,ALCOHOL.

Fire Fighting Procedures:FIREFIGHTERS/OTHERS EXPO TO PRODUCTS OF COMBUSTION SHOULD BE EQUIPPED W/NIOSH/MSHA APPROV +PRESSURE SELF-CONTAINED BREATHING APPARATUS & FULL PROTECTIVE CLOTH

Unusual Fire/Explosion Hazard:DURING FIRE IRRIT/TOXIC GASES MAY BE GENERATED DURING COMBUSTION OR DECOMPOSITION.

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

Spill Release Procedures:EVACUATE:ISOLATE HAZ AREA.KEEP UN

NECESSARY/UNPROTECTED PERSONS FROM ENTERING.ELIMINATE ALL IGN SOURCES.SAF STOP LEAK.CONTAIN W/DIKE/BARRIER.STOP CONTAM SOIL/SEWER/BODIES OF H2O.WEAR PPE;ENCLSD SPACE U SE SCBA.COVER W/ABSORBENT CLAY;PLACE IN(SUPPLEM)

Neutralizing Agent:NONE SPECIFIED BY MANUFACTURER.

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

Handling and Storage Precautions:STORE IN COOL DRY WELL VENTI AREA AWAY FRM HEAT/IGN SOURCES/DIRECT SUNLIGHT.KEEP CNTNR TIGHTLY CLSD.FOLLOW GO

OD STORAGE/HDNLG PRACTS.

Other Precautions:ATTN CNTNR CAN BE HAZ WHEN EMPTIED.FOLLOW LABEL WARNINGS EVEN AFT CNTNR IS EMPTY-CONTAINERS MAY RETAIN PRODU RESIDUES.DONT REUSE EMPTIED CNTNR W/O PROF CLEAN FOR FOOD/CLOTH/PROD FOR ANIMAL CONSUMPTION /WHERE SKIN CONTACT CAN OCCUR.

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

Respiratory Protection:AVOID BREATHING VAP/MIST.USE NIOSH/MSHA APPROV EQPMT.DETERMINE APPROPRIATE TYPE FROM RESPIRATOR MFG.HIGH AIRBORN E

CONCEN PRESENT USE SELF-CONTAINED BREATHING APPARATUSOR SUPPLIED AIR RESPIRATOR.RESP P ROT PROGRAMS MUST COMPLY W/OSHA 1910.134

Ventilation:LOC EXHAU VENTI WHEN VAP/MIST/DUST CAN BE RELESED IN EXCESS OF AIRBORNE EXPO LIMITS(TLV/PEL).

Protective Gloves:APPROP GLOVE-CONSULT GLOVE MFG FOR TYPE

Eye Protection:CHEM SPLASH GOGG.

Other Protective Equipment:EYEWASH FOUNTAIN READILY AVAIL.PROTECTIVE CLOTH

Work Hygienic Practices:WASH CLOTH SEPARATELY BEF REUSE.WASH WELL AFT HNDLG ES

PECIALLY BEF EAT/DRINK/SMOKE/USE RESTRM FAC.WASH PPE.

Supplemental Safety and Health

SPILL:CLSD CHEM WASTE CNTNR.DISPO IAW LOC/STATE/FED REGS.SPILLS OF MATL
IN EXCESS OF COMPO REPORT TO NRC 800-424-8802/APPROP STATE/LOC
EMERG RESPO ORGANIZ.NAOH RQ=1000LBS. DISPO:INCINERATE AT AUTHORIZ
ED FAC,OR TREAT @ACCEPTABLE WASTE TREATMENT FAC.BE SURE TO CONTACT
APPROP ENVIRO AGENCY FOR FURTHER GUIDANCE.SARA 313.

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

HCC:N1

B

Boiling Pt:B.P. Text:NP

Melt/Freeze Pt:M.P/F.P Text:NP

Decomp Temp:Decomp Text:NP

Vapor Pres:0.1

Vapor Density:>1

Spec Gravity:2.1

pH:NA

Viscosity:NP

Evaporation Rate & Reference:NP

Solubility in Water:INSOLUBLE

Appearance and Odor:BLACK PASTE, DISTINCT ODOR

Percent Volatiles by Volume:0

Corrosion Rate:NP

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

Stability Indicator/Materials to Avoid:YES

OXIDIZERS, ACIDS.

Stability Condition to Avoid:HIGH TEMPERATURES.

Hazardous D

Decomposition Products:SMOKE,SOOT,TOXIC/IRRIT FUMES(CARBON
DIOXIDE,CARBON MONOXIDE,OXIDES OF NITROGEN,METAL OXIDES).

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

Waste Disposal Methods:DISPOSE IN ACCORDANCE WITH ALL LOCAL,STATE AND
FEDERAL REGULATIONS.FED REGS MAY APPLY TO EMPTY CNTNR.STATE/LOC
REGS MAY BE DIFFERENT.OF METHODS OF DISPO CURENTLY USED RECOMMENDED
THAT ALTERNATIVE BE S ELECTED ACCORDING TO REWORK IF
FEASIBLE,(SUPPLEM)

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ed with this information by the compiling agencies):

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