

SECTION I.

MATERIAL SAFETY DATA SHEET

MANUFACTURER

DATE 08/17/88

BURTON RUBBER PROCESSING, INC.

14330 KINSMAN ROAD

BURTON, OHIO 44021

216-834-4644

CHEMICAL NAME AND SYNONYMS

CHEMICAL FAMILY
POLYMERIC

TRADE NAME

[546-86017-71]

FORMULA PROPRIETARY-GENERATED BY
DOW CHEMICAL

SECTION II.

HAZARDOUS INGREDIENTS

ACGIH OSHA OTH
TLV PEL **

MATERIALS LISTED IN THIS SECTION ARE IN CONCENTRATIONS OF 0.1% OR MORE IF CARCINOGENIC AND 1% OR MORE IF TOXIC, IRRITANT, ETC. PER 29CFR 1910.1200.

DIOCTYL PHTHALATE (DOP); BIS-2-ETHYL ANIMAL CARCINOGEN

5.00 5.00 10.
MG/M3 MG/M3 MG/

HEXYL PHTHALATE (DEHP), CAS 117-81-7

** SOURCE FOR OTHER- ACGIH STEL FOR OIL MIST

HEAVY PARAFFINIC DISTILLATE SOLVENT ANIMAL CARCINOGEN

NE NE
MG/

EXTRACT, CAS 64742-04-7

** SOURCE FOR OTHER- SUN RECOMMENDED

* NE- NOT ESTABLISHED

SECTION III.

PHYSICAL DATA

BOILING POINT (° F.) NA*

SPECIFIC GRAVITY (H2O=1) 1.44

VAPOR PRESSURE (MM HG.) NA

PERCENT VOLATILE NA
BY VOLUME (%)

VAPOR DENSITY (AIR=1) NA

SOLUBILITY IN WATER NIL

EVAPORATION RATE NA

APPEARANCE AND ODOR BLACK

POLYMERIC SOLID; CHARACTERISTIC ODOR

*NA- NOT APPLICABLE

SECTION IV.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) NA*

FLAMMABLE LIMITS NA

EXTINGUISHING MEDIA - WATER SPRAY, PROTEIN TYPE AIR FOAM, ABC DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES- WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS- NONE

*NA- NOT APPLICABLE

DO 085954
CONFIDENTIAL

SECTION V.

REACTIVITY DATA

STABILITY-

HAZARDOUS POLYMERIZATION-
MATERIALS TO AVOID-

STABLE; AVOID DECOMPOSITION TEMPERATURES
WILL NOT OCCUR; NO CONDITIONS TO AVOID
STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO2, HCL

SECTION VI.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE- SEE SECTION II. ENTRY ROUTE: INHALATION, SKIN, EYE

EFFECTS OF OVEREXPOSURE

CONTAINMENT IN POLYMERIC BINDER GREATLY REDUCES RISK OF CONTACT WITH
HAZARDOUS MATERIALS.

DCP/DEHP MAY CAUSE EYE, SKIN, MUCCUS MEMBRANE, UPPER RESPIRATORY TRACT IRRITA-
TION; VERY HIGH LEVELS FED TO RATS/MICE PRODUCED LIVER TUMORS (IARC/NTP);
ANIMAL TESTS ALSO INDICATE THAT TARGET ORGANS ARE THE LIVER, TESTES, AND FETUS.
THE HEAVY PARAFFINIC DISTILLATE CONTAINS AROMATIC PETROLEUM OIL, AN ANIMAL
CARCINOGEN PER IARC WHICH CAUSED SKIN TUMORS DURING ANIMAL TESTING; EXCESSIVE
EXPOSURE MAY CAUSE EYE/NOSE/THROAT IRRITATION.

EMERGENCY AND FIRST AID PROCEDURES

FLUSH EYES/SKIN WITH PLENTY OF WATER - CONSULT PHYSICIAN IF IRRITATION PERSISTS

IF INHALED REMOVE TO FRESH AIR -

IF INGESTED, CONSULT PHYSICIAN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS (I.E., ASTHMA, CHRONIC BRONCHITIS,
EMPHYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE
EXPOSURE. SENSITIVE INDIVIDUALS MAY BE SUSCEPTABLE TO ALLERGIC REACTION UPON
CONTACT WITH SKIN, EYES, OR RESPIRATORY TRACT.

SECTION VII.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

COLLECT: RETURN TO CONTAINER

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

RECOMMEND NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IF VENTILATION IS INADEQUATE
VENTILATION: LOCAL EXHAUST - YES

MECHANICAL (GENERAL) - YES

PROTECTIVE GLOVES: RECOMMEND IMPERVIOUS

EYE PROTECTION - RECOMMENDED

SECTION IX.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
STORE BELOW 120 F AWAY FROM DIRECT SOURCES OF HEAT AND SUNLIGHT.

OTHER PRECAUTIONS: WASH THOROUGHLY AFTER HANDLING

A CLASS OF MATERIALS CALLED NITROSAMINES ARE ANIMAL CARCINOGENS AND SHOULD BE TREATED AS POSSIBLE HUMAN CARCINOGENS. BECAUSE MANY RUBBER MATERIALS CONTAIN AMINE-BASED INGREDIENTS, TRACE RESIDUAL AMOUNTS (WELL BELOW 0.1%) OF NITROSAMINE ARE LIKELY TO EXIST IN MOST RUBBER COMPOUNDS AS A RESULT OF BEING FORMED IN EARLIER PROCESSING STEPS; CERTAIN PROCESSING STEPS CAN FORM HIGHER AMOUNTS OF NITROSAMINES. AVOID MIXING OR EXPOSING THIS PRODUCT WITH: NITRATES, NITRITES, NITROGEN OXIDES OR OTHER NITROSAMINES AS POTENTIALLY HAZARDOUS LEVELS OF NITROSAMINES MAY BE FORMED. SALT BATH CURING WITH NITRATE/NITRITE SALTS CAN BE EXPECTED TO PRODUCE HAZARDOUS AMOUNTS OF VOLATILE NITROSAMINES. EMISSIONS FROM SUCH PROCESSES MUST BE EXHAUSTED. EMPLOYEES MUST AVOID INHALING FUMES FROM HOT RUBBER PROCESSING.

SIGNATURE

Glenn L. Lecher

TITLE

CHEMIST

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LAST REVISED (06/30/87)

DO 085956
CONFIDENTIAL

SECTION I.

MATERIAL SAFETY DATA SHEET

DATE 4/10/1978

MANUFACTURER

BURTON RUBBER PROCESSING, INC.

14330 KINSMAN ROAD

BURTON, OHIO 44021

216-834-4644

CHEMICAL NAME AND SYNONYMS

CHEMICAL FAMILY
POLYMERIC

TRADE NAME

87009-24-2

FORMULA PROPRIETARY-GENERATED BY
DOW CHEMICAL

SECTION II.

HAZARDOUS INGREDIENTS

ACGIH OSHA OTHER
TLV PEL **

MATERIALS LISTED IN THIS SECTION ARE IN CONCENTRATIONS OF 0.1% OR MORE IF CARCINOGENIC AND 1% OR MORE IF TOXIC, IRRITANT, ETC. PER 29CFR 1910.1200.

BASIC SILICATE WHITE LEAD

CAS 11120-22-2

BLOOD TOXIN

.15 .05 NE
MG/M3 MG/M3

N-BUTYL-4,4-BIS-(T-BUTYLPEROXY)

IRRITANT-EYE, SKIN, RESPIRATORY

NE NE NE

VALERATE, CAS 995-33-5

EPOXIDIZED SOYBEAN OIL

IRRITANT-EYE, SKIN

NE NE NE

DIALLYL PHTHALATE (DAP) MONOMER,

HEPATOTOXIN (LIVER)

NE NE NE

CAS 131-17-9

* NE- NOT ESTABLISHED

SECTION III.

PHYSICAL DATA

BOILING POINT (O F.) NA*

SPECIFIC GRAVITY (H2O=1) 1.34

VAPOR PRESSURE (MM HG.) NA

PERCENT VOLATILE NA
BY VOLUME (%)

VAPOR DENSITY (AIR=1) NA

SOLUBILITY IN WATER NIL

EVAPORATION RATE NA

APPEARANCE AND ODOR BLACK

POLYMERIC SOLID; CHARACTERISTIC ODOR

*NA- NOT APPLICABLE

SECTION IV.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) NA*

FLAMMABLE LIMITS NA

EXTINGUISHING MEDIA - WATER SPRAY, PROTEIN TYPE AIR FOAM, ABC DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES- WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS- NONE

*NA- NOT APPLICABLE

DO 085957
CONFIDENTIAL

TION V.

REACTIVITY DATA

ABILITY-

HAZARDOUS POLYMERIZATION-
MATERIALS TO AVOID-STABLE; AVOID DECOMPOSITION TEMPERATURES
WILL NOT OCCUR; NO CONDITIONS TO AVOID
STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

, CO2 , HCL, LEAD, LEAD OXIDE, MGO FUME

TION VI.

HEALTH HAZARD DATA

RESHOLD LIMIT VALUE- SEE SECTION II. ENTRY ROUTE: INHALATION, SKIN, EYE

EFFECTS OF OVEREXPOSURE

CONTAINMENT IN POLYMERIC BINDER GREATLY REDUCES RISK OF CONTACT WITH
HAZARDOUS MATERIALS.EXPOSURE TO LEAD MAY CAUSE LEAD INTOXICATION, ABDOMINAL PAIN, FATIGUE,
DIZZINESS, CONSTIPATION, NAUSEA, HIGH LEAD LEVEL IN BLOOD.T-BUTYLPEROXY VALERATE MAY CAUSE SKIN IRRITATION/REDNESS UPON PROLONGED
CONTACT; MAY CAUSE EYE IRRITATION/DAMAGE; NOSE, THROAT, RESPIRATORY IRRITANT; MAY
USE UNKNOWN TOXIC EFFECTS.HYDROLYZED SOYBEAN OIL MAY CAUSE MILD EYE IRRITATION; PROLONGED/REPEATED
CONTACT MAY CAUSE SKIN IRRITATION.MONOMER INHALATION MAY CAUSE COUGHING, DIZZINESS, INTOXICATION, COLLAPSE;
VALERATE EYE IRRITANT WITH BURNING SENSATION, TEARING, REDNESS, SWELLING; MAY
USE DELAYED SKIN IRRITATION; CHRONIC EXPOSURE MAY CAUSE LUNG/LIVER DAMAGE.

D. AGENCY AND FIRST AID PROCEDURES

FLUSH EYES/SKIN WITH PLENTY OF WATER - CONSULT PHYSICIAN IF IRRITATION PERSISTS

IF INHALED REMOVE TO FRESH AIR -

IF INGESTED, CONSULT PHYSICIAN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS (I.E., ASTHMA, CHRONIC BRONCHITIS,
EMPHYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE
EXPOSURE. SENSITIVE INDIVIDUALS MAY BE SUSCEPTABLE TO ALLERGIC REACTION UPON
CONTACT WITH SKIN, EYES, OR RESPIRATORY TRACT.

TION VII.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

COLLECT: RETURN TO CONTAINER

BEST DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

TION VIII.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

RECOMMEND NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IF VENTILATION IS INADEQUATE

VENTILATION: LOCAL EXHAUST - YES

MECHANICAL (GENERAL) - YES

DETECTIVE GLOVES: RECOMMEND IMPERVIOUS

EYE PROTECTION - RECOMMENDED

DO 085958
CONFIDENTIAL

SECTION I.

MATERIAL SAFETY DATA SHEET

MANUFACTURER

DATE 08/17/88

BURTON RUBBER PROCESSING, INC.

14330 KINSMAN ROAD

BURTON, OHIO 44021

216-834-4644

CHEMICAL NAME AND SYNONYMS

CHEMICAL FAMILY
POLYMERIC

TRADE NAME

87021-20-6

FORMULA PROPRIETARY-GENERATED BY
DOW CHEMICAL

SECTION II.

HAZARDOUS INGREDIENTS

ACGIH OSHA OTH
TLV PEL **

MATERIALS LISTED IN THIS SECTION ARE IN CONCENTRATIONS OF 0.1% OR MORE IF CARCINOGENIC AND 1% OR MORE IF TOXIC, IRRITANT, ETC. PER 29CFR 1910.1200.

TRIALLYL CYANURATE (TAC)
CAS 101-37-1

IRRITANT-EYE, SKIN, RESPIRATORY

NE NE NE

DIOCTYL PHTHALATE (DOP); BIS-2-ETHYL ANIMAL CARCINOGEN
HEXYL PHTHALATE (DEHP), CAS 117-81-75.00 5.00 10.
MG/M3 MG/M3 MG/

** SOURCE FOR OTHER- ACGIH STEL FOR OIL MIST

* NE- NOT ESTABLISHED

SECTION III.

PHYSICAL DATA

BOILING POINT (O F.) NA*

SPECIFIC GRAVITY (H2O=1) 1.49

VAPOR PRESSURE (MM HG.) NA

PERCENT VOLATILE NA
BY VOLUME (%)

VAPOR DENSITY (AIR=1) NA

SOLUBILITY IN WATER NIL

EVAPORATION RATE NA

APPEARANCE AND ODOR BLACK

POLYMERIC SOLID; CHARACTERISTIC ODOR

*NA- NOT APPLICABLE

SECTION IV.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) NA*

FLAMMABLE LIMITS NA

EXTINGUISHING MEDIA - WATER SPRAY, PROTEIN TYPE AIR FOAM, ABC DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES- WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS- NONE

*NA- NOT APPLICABLE

DO 085959
CONFIDENTIAL

SECTION V.

REACTIVITY DATA

STABILITY-

HAZARDOUS POLYMERIZATION-
MATERIALS TO AVOID-

STABLE; AVOID DECOMPOSITION TEMPERATURES
WILL NOT OCCUR; NO CONDITIONS TO AVOID
STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO2, HCL, MGO FUME, HCN, N OXIDES, ALLYL CMPD

SECTION VI.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE- SEE SECTION II. ENTRY ROUTE: INHALATION, SKIN, EYE

EFFECTS OF OVEREXPOSURE

CONTAINMENT IN POLYMERIC BINDER GREATLY REDUCES RISK OF CONTACT WITH
HAZARDOUS MATERIALS.

TAC MAY CAUSE SKIN, EYE, RESPIRATORY TRACT IRRITATION.

DOP/DEHP MAY CAUSE EYE, SKIN, MUCCUS MEMBRANE, UPPER RESPIRATORY TRACT IRRITA-
TION; VERY HIGH LEVELS FED TO RATS/MICE PRODUCED LIVER TUMORS (IARC/NTP);
ANIMAL TESTS ALSO INDICATE THAT TARGET ORGANS ARE THE LIVER, TESTES, AND FETUS.

EMERGENCY AND FIRST AID PROCEDURES

FLUSH EYES/SKIN WITH PLENTY OF WATER - CONSULT PHYSICIAN IF IRRITATION PERSISTS

IF INHALED REMOVE TO FRESH AIR -

IF INGESTED, CONSULT PHYSICIAN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS (I.E., ASTHMA, CHRONIC BRONCHITIS,
EMPHYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE
EXPOSURE. SENSITIVE INDIVIDUALS MAY BE SUSCEPTABLE TO ALLERGIC REACTION UPON
CONTACT WITH SKIN, EYES, OR RESPIRATORY TRACT.

SECTION VII.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

COLLECT: RETURN TO CONTAINER

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

RECOMMEND NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IF VENTILATION IS INADEQUATE
VENTILATION: LOCAL EXHAUST - YES

MECHANICAL (GENERAL) - YES

PROTECTIVE GLOVES: RECOMMEND IMPERVIOUS EYE PROTECTION - RECOMMENDED

SECTION IX.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
BE BELOW 120 F AWAY FROM DIRECT SOURCES OF HEAT AND SUNLIGHT.

OTHER PRECAUTIONS: WASH THOROUGHLY AFTER HANDLING

A CLASS OF MATERIALS CALLED NITROSAMINES ARE ANIMAL CARCINOGENS AND SHOULD BE TREATED AS POSSIBLE HUMAN CARCINOGENS. BECAUSE MANY RUBBER MATERIALS CONTAIN AMINE BASED INGREDIENTS, TRACE RESIDUAL AMOUNTS (WELL BELOW 0.1%) OF NITROSAMINE ARE LIKELY TO EXIST IN MOST RUBBER COMPOUNDS AS A RESULT OF BEING FORMED IN EARLIER PROCESSING STEPS; CERTAIN PROCESSING STEPS CAN FORM HIGHER AMOUNTS OF NITROSAMINES AVOID MIXING OR EXPOSING THIS PRODUCT WITH: NITRATES, NITRITES, NITROGEN OXIDES OR OTHER NITROSAMINES AS POTENTIALLY HAZARDOUS LEVELS OF NITROSAMINES MAY BE FORMED. SALT BATH CURING WITH NITRATE/NITRITE SALTS CAN BE EXPECTED TO PRODUCE HAZARDOUS AMOUNTS OF VOLATILE NITROSAMINES. EMISSIONS FROM SUCH PROCESSES MUST BE EXHAUSTED. EMPLOYEES MUST AVOID INHALING FUMES FROM HOT RUBBER PROCESSING.

SIGNATURE Glenn K. Lecher TITLE CHEMIST

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LAST REVISED (06/30/87)

SECTION I.

MATERIAL SAFETY DATA SHEET

DATE 08/17/88

MANUFACTURER

BURTON RUBBER PROCESSING, INC.

14330 KINSMAN ROAD

BURTON, OHIO 44021

216-834-4644

CHEMICAL NAME AND SYNONYMS

CHEMICAL FAMILY
POLYMERIC

TRADE NAME

87021-20-8

FORMULA PROPRIETARY-GENERATED BY
DCW CHEMICAL

SECTION II.

HAZARDOUS INGREDIENTS

ACGIH OSHA OTH
TLV PEL **

MATERIALS LISTED IN THIS SECTION ARE IN CONCENTRATIONS OF 0.1% OR MORE IF CARCINOGENIC AND 1% OR MORE IF TOXIC, IRRITANT, ETC. PER 29CFR 1910.1200.

TRIALLYL CYANURATE (TAC)
CAS 101-37-1

IRRITANT-EYE, SKIN, RESPIRATORY

NE NE NE

DIOCTYL PHTHALATE (DOP); BIS-2-ETHYL ANIMAL CARCINOGEN
HEXYL PHTHALATE (DEHP), CAS 117-81-75.00 5.00 10.
MG/M3 MG/M3 MG/

** SOURCE FOR OTHER- ACGIH STEL FOR OIL MIST

* NE- NOT ESTABLISHED

SECTION III.

PHYSICAL DATA

BOILING POINT (O F.) NA*

SPECIFIC GRAVITY (H2O=1) 1.49

VAPOR PRESSURE (MM HG.) NA

PERCENT VOLATILE NA
BY VOLUME (%)

VAPOR DENSITY (AIR=1) NA

SOLUBILITY IN WATER NIL

EVAPORATION RATE NA

APPEARANCE AND ODOR BLACK

POLYMERIC SOLID; CHARACTERISTIC ODOR

*NA- NOT APPLICABLE

SECTION IV.

FIPE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) NA*

FLAMMABLE LIMITS NA

EXTINGUISHING MEDIA - WATER SPRAY, PROTEIN TYPE AIR FOAM, ABC DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES- WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS- NONE

*NA- NOT APPLICABLE

DO 085962
CONFIDENTIAL

SECTION V.

REACTIVITY DATA

STABILITY-

HAZARDOUS POLYMERIZATION-
MATERIALS TO AVOID-

STABLE; AVOID DECOMPOSITION TEMPERATURES
WILL NOT OCCUR; NO CONDITIONS TO AVOID
STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO2, HCL, MGO FUME, HCN, N OXIDES, ALLYL CMPD

SECTION VI.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE- SEE SECTION II. ENTRY ROUTE: INHALATION, SKIN, EYE

EFFECTS OF OVEREXPOSURE

CONTAINMENT IN POLYMERIC BINDER GREATLY REDUCES RISK OF CONTACT WITH
HAZARDOUS MATERIALS.

TAC MAY CAUSE SKIN, EYE, RESPIRATORY TRACT IRRITATION.

DOP/DEHP MAY CAUSE EYE, SKIN, MUCOUS MEMBRANE, UPPER RESPIRATORY TRACT IRRITA-
TION; VERY HIGH LEVELS FED TO RATS/MICE PRODUCED LIVER TUMORS (IARC/NTP);
ANIMAL TESTS ALSO INDICATE THAT TARGET ORGANS ARE THE LIVER, TESTES, AND FETUS.

EMERGENCY AND FIRST AID PROCEDURES

FLUSH EYES/SKIN WITH PLENTY OF WATER - CONSULT PHYSICIAN IF IRRITATION PERSISTS

IF INHALED REMOVE TO FRESH AIR -

IF INGESTED, CONSULT PHYSICIAN

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EXPOSURE. SENSITIVE INDIVIDUALS MAY BE SUSCEPTABLE TO ALLERGIC REACTION UPON
CONTACT WITH SKIN, EYES, OR RESPIRATORY TRACT.

SECTION VII.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

COLLECT: RETURN TO CONTAINER

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

RECOMMEND NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IF VENTILATION IS INADEQUATE
VENTILATION: LOCAL EXHAUST - YES

MECHANICAL (GENERAL) - YES

PROTECTIVE GLOVES: RECOMMEND IMPERVIOUS

EYE PROTECTION - RECOMMENDED

DO 085963
CONFIDENTIAL

SECTION IX.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
BE BELOW 120 F AWAY FROM DIRECT SOURCES OF HEAT AND SUNLIGHT.

OTHER PRECAUTIONS: WASH THOROUGHLY AFTER HANDLING

A CLASS OF MATERIALS CALLED NITROSAMINES ARE ANIMAL CARCINOGENS AND SHOULD BE TREATED AS POSSIBLE HUMAN CARCINOGENS. BECAUSE MANY RUBBER MATERIALS CONTAIN AMINE-BASED INGREDIENTS, TRACE RESIDUAL AMOUNTS (WELL BELOW 0.1%) OF NITROSAMINE ARE LIKELY TO EXIST IN MOST RUBBER COMPOUNDS AS A RESULT OF BEING FORMED IN EARLIER PROCESSING STEPS; CERTAIN PROCESSING STEPS CAN FORM HIGHER AMOUNTS OF NITROSAMINES. AVOID MIXING OR EXPOSING THIS PRODUCT WITH: NITRATES, NITRITES, NITROGEN OXIDES OR OTHER NITROSAMINES AS POTENTIALLY HAZARDOUS LEVELS OF NITROSAMINES MAY BE FORMED. SALT BATH CURING WITH NITRATE/NITRITE SALTS CAN BE EXPECTED TO PRODUCE HAZARDOUS AMOUNTS OF VOLATILE NITROSAMINES. EMISSIONS FROM SUCH PROCESSES MUST BE EXHAUSTED. EMPLOYEES MUST AVOID INHALING FUMES FROM HOT RUBBER PROCESSING.

SIGNATURE *Donna L. Decker* TITLE CHEMIST

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LAST REVISED (06/30/87)

SECTION I.

MATERIAL SAFETY DATA SHEET

MANUFACTURER

DATE 08/17/88

BURTON RUBBER PROCESSING, INC.

14330 KINSMAN ROAD

BURTON, OHIO 44021

216-834-4644

CHEMICAL NAME AND SYNONYMS

CHEMICAL FAMILY
POLYMERIC

TRADE NAME

37021-20-9

FORMULA PROPRIETARY-GENERATED BY
DOW CHEMICAL

SECTION II.

HAZARDOUS INGREDIENTS

ACGIH OSHA OTH
TLV PEL **

MATERIALS LISTED IN THIS SECTION ARE IN CONCENTRATIONS OF 0.1% OR MORE IF CARCINOGENIC AND 1% OR MORE IF TOXIC, IRRITANT, ETC. PER 29CFR 1910.1200.

TRIALLYL CYANURATE (TAC)
CAS 101-37-1

IRRITANT-EYE, SKIN, RESPIRATORY

NE NE NE

DIOCTYL PHTHALATE (DOP); BIS-2-ETHYL ANIMAL CARCINOGEN
HEXYL PHTHALATE (DEHP); CAS 117-81-75.00 5.00 10.
MG/M3 MG/M3 MG/

** SOURCE FOR OTHER- ACGIH STEL FOR OIL MIST

* NE- NOT ESTABLISHED

SECTION III.

PHYSICAL DATA

BOILING POINT (O F.) NA*

SPECIFIC GRAVITY (H2O=1) 1.49

VAPOR PRESSURE (MM HG.) NA

PERCENT VOLATILE NA
BY VOLUME (%)

VAPOR DENSITY (AIR=1) NA

SOLUBILITY IN WATER NIL

EVAPORATION RATE NA

APPEARANCE AND ODOR BLACK

POLYMERIC SOLID; CHARACTERISTIC ODOR

*NA- NOT APPLICABLE

SECTION IV.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) NA*

FLAMMABLE LIMITS NA

EXTINGUISHING MEDIA - WATER SPRAY, PROTEIN TYPE AIR FOAM, ABC DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES- WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS- NONE

*NA- NOT APPLICABLE

DO 085965
CONFIDENTIAL

SECTION V.

REACTIVITY DATA

STABILITY-

HAZARDOUS POLYMERIZATION-
MATERIALS TO AVOID-

STABLE; AVOID DECOMPOSITION TEMPERATURES
WILL NOT OCCUR; NO CONDITIONS TO AVOID
STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO2, HCL, MGO FUME, HCN, N OXIDES, ALLYL CMPD

SECTION VI.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE- SEE SECTION II. ENTRY ROUTE: INHALATION, SKIN, EYE

EFFECTS OF OVEREXPOSURE

CONTAINMENT IN POLYMERIC BINDER GREATLY REDUCES RISK OF CONTACT WITH
HAZARDOUS MATERIALS.

TAC MAY CAUSE SKIN, EYE, RESPIRATORY TRACT IRRITATION.

DOP/DEHP MAY CAUSE EYE, SKIN, MUCOUS MEMBRANE, UPPER RESPIRATORY TRACT IRRITA-
TION; VERY HIGH LEVELS FED TO RATS/MICE PRODUCED LIVER TUMORS (IARC/NTP);
ANIMAL TESTS ALSO INDICATE THAT TARGET ORGANS ARE THE LIVER, TESTES, AND FETUS.

EMERGENCY AND FIRST AID PROCEDURES

FLUSH EYES/SKIN WITH PLENTY OF WATER - CONSULT PHYSICIAN IF IRRITATION PERSISTS

IF INHALED REMOVE TO FRESH AIR -

IF INGESTED, CONSULT PHYSICIAN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS (I.E., ASTHMA, CHRONIC BRONCHITIS,
EMPHYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE
EXPOSURE. SENSITIVE INDIVIDUALS MAY BE SUSCEPTIBLE TO ALLERGIC REACTION UPON
CONTACT WITH SKIN, EYES, OR RESPIRATORY TRACT.

SECTION VII.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

COLLECT: RETURN TO CONTAINER

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION-

RECOMMEND NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IF VENTILATION IS INADEQUATE

VENTILATION: LOCAL EXHAUST - YES

MECHANICAL (GENERAL) - YES

PROTECTIVE GLOVES: RECOMMEND IMPERVIOUS

EYE PROTECTION - RECOMMENDED

SECTION IX.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
STORE BELOW 120 F AWAY FROM DIRECT SOURCES OF HEAT AND SUNLIGHT.

OTHER PRECAUTIONS: WASH THOROUGHLY AFTER HANDLING

A CLASS OF MATERIALS CALLED NITROSAMINES ARE ANIMAL CARCINOGENS AND SHOULD BE TREATED AS POSSIBLE HUMAN CARCINOGENS. BECAUSE MANY RUBBER MATERIALS CONTAIN AMINE-BASED INGREDIENTS, TRACE RESIDUAL AMOUNTS (WELL BELOW 0.1%) OF NITROSAMINE ARE LIKELY TO EXIST IN MOST RUBBER COMPOUNDS AS A RESULT OF BEING FORMED IN EARLIER PROCESSING STEPS; CERTAIN PROCESSING STEPS CAN FORM HIGHER AMOUNTS OF NITROSAMINES. AVOID MIXING OR EXPOSING THIS PRODUCT WITH: NITRATES, NITRITES, NITROGEN OXIDES OR OTHER NITROSAMINES AS POTENTIALLY HAZARDOUS LEVELS OF NITROSAMINES MAY BE FORMED. SALT BATH CURING WITH NITRATE/NITRITE SALTS CAN BE EXPECTED TO PRODUCE HAZARDOUS AMOUNTS OF VOLATILE NITROSAMINES. EMISSIONS FROM SUCH PROCESSES MUST BE EXHAUSTED. EMPLOYEES MUST AVOID INHALING FUMES FROM HOT RUBBER PROCESSING.

SIGNATURE

Klara L. Lecher

TITLE

CHEMIST

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LAST REVISED 06/30/87

DO 085967
CONFIDENTIAL

SECTION I.

MATERIAL SAFETY DATA SHEET

MANUFACTURER

DATE 70/11/88

BURTON RUBBER PROCESSING, INC.

14330 KINSMAN ROAD

BURTON, OHIO 44021

216-834-4644

CHEMICAL NAME AND SYNONYMS

CHEMICAL FAMILY
POLYMERIC

TRADE NAME

88003-10-2

FORMULA PROPRIETARY-GENERATED BY
DOW CHEMICAL

SECTION II.

HAZARDOUS INGREDIENTS

ACGIH OSHA OTHER
TLV PEL **

MATERIALS LISTED IN THIS SECTION ARE IN CONCENTRATIONS OF 0.1% OR MORE IF CARCINOGENIC AND 1% OR MORE IF TOXIC, IRRITANT, ETC. PER 29CFR 1910.1200.

DIOCTYL PHTHALATE (DOP); BIS-2-ETHYL ANIMAL CARCINOGEN

5.00 5.00 10.0

HEXYL PHTHALATE (DEHP), CAS 117-81-7

MG/M3 MG/M3 MG/L

** SOURCE FOR OTHER- ACGIH STEL FOR OIL MIST

DIALLYL PHTHALATE (DAP) MONOMER, HEPATOTOXIN (LIVER)

NE NE NE

CAS 131-17-9

* NE- NOT ESTABLISHED

SECTION III.

PHYSICAL DATA

BOILING POINT (O F.) NA*

SPECIFIC GRAVITY (H2O=1) 1.49

VAPOR PRESSURE (MM HG.) NA

PERCENT VOLATILE
BY VOLUME (%) NA

VAPOR DENSITY (AIR=1) NA

SOLUBILITY IN WATER NIL

EVAPORATION RATE NA

APPEARANCE AND ODOR BLACK

POLYMERIC SOLID; CHARACTERISTIC ODOR

*NA- NOT APPLICABLE

SECTION IV.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) NA*

FLAMMABLE LIMITS NA

EXTINGUISHING MEDIA, - WATER SPRAY, PROTEIN TYPE AIR FOAM, ABC DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES- WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS- NONE

*NA- NOT APPLICABLE

DO 085968
CONFIDENTIAL

SECTION V.

REACTIVITY DATA

○ BILITY-
HAZARDOUS POLYMERIZATION-
MATERIALS TO AVOID-

STABLE; AVOID DECOMPOSITION TEMPERATURES
WILL NOT OCCUR; NO CONDITIONS TO AVOID
STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS
CO, CO2, HCL

SECTION VI.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE- SEE SECTION II. ENTRY ROUTE: INHALATION, SKIN, EYE

EFFECTS OF OVEREXPOSURE

CONTAINMENT IN POLYMERIC BINDER GREATLY REDUCES RISK OF CONTACT WITH
HAZARDOUS MATERIALS.

DOP/DEHP MAY CAUSE EYE, SKIN, MUCOUS MEMBRANE, UPPER RESPIRATORY TRACT IRRITA-
TION; VERY HIGH LEVELS FED TO RATS/MICE PRODUCED LIVER TUMORS (IARC/NTP);
ANIMAL TESTS ALSO INDICATE THAT TARGET ORGANS ARE THE LIVER, TESTES, AND FETUS.
DAP MONOMER INHALATION MAY CAUSE COUGHING, DIZZINESS, INTOXIFICATION, COLLAPSE;
MODERATE EYE IRRITANT WITH BURNING SENSATION, TEARING, REDNESS, SWELLING; MAY
CAUSE DELAYED SKIN IRRITATION; CHRONIC EXPOSURE MAY CAUSE LUNG/LIVER DAMAGE.

EMERGENCY AND FIRST AID PROCEDURES

FLUSH EYES/SKIN WITH PLENTY OF WATER - CONSULT PHYSICIAN IF IRRITATION PERSISTS

○ INHALED REMOVE TO FRESH AIR - IF INGESTED, CONSULT PHYSICIAN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS (I.E., ASTHMA, CHRONIC BRONCHITIS,
EMPHYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE
EXPOSURE. SENSITIVE INDIVIDUALS MAY BE SUSCEPTABLE TO ALLERGIC REACTION UPON
CONTACT WITH SKIN, EYES, OR RESPIRATORY TRACT.

SECTION VII.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

COLLECT: RETURN TO CONTAINER

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

RECOMMEND NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IF VENTILATION IS INADEQUATE

VENTILATION: LOCAL EXHAUST - YES

MECHANICAL (GENERAL) - YES

PROTECTIVE GLOVES: RECOMMEND IMPERVIOUS EYE PROTECTION - RECOMMENDED

SECTION IX.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
STORE BELOW 120 F AWAY FROM DIRECT SOURCES OF HEAT AND SUNLIGHT.

OTHER PRECAUTIONS: WASH THOROUGHLY AFTER HANDLING

A CLASS OF MATERIALS CALLED NITROSAMINES ARE ANIMAL CARCINOGENS AND SHOULD BE TREATED AS POSSIBLE HUMAN CARCINOGENS. BECAUSE MANY RUBBER MATERIALS CONTAIN AMINE-BASED INGREDIENTS, TRACE RESIDUAL AMOUNTS (WELL BELOW 0.1%) OF NITROSAMINE ARE LIKELY TO EXIST IN MOST RUBBER COMPOUNDS AS A RESULT OF BEING FORMED IN EARLIER PROCESSING STEPS; CERTAIN PROCESSING STEPS CAN FORM HIGHER AMOUNTS OF NITROSAMINES. AVOID MIXING OR EXPOSING THIS PRODUCT WITH: NITRATES, NITRITES, NITROGEN OXIDES OR OTHER NITROSAMINES AS POTENTIALLY HAZARDOUS LEVELS OF NITROSAMINES MAY BE FORMED. SALT BATH CURING WITH NITRATE/NITRITE SALTS CAN BE EXPECTED TO PRODUCE HAZARDOUS AMOUNTS OF VOLATILE NITROSAMINES. EMISSIONS FROM SUCH PROCESSES MUST BE EXHAUSTED. EMPLOYEES MUST AVOID INHALING FUMES FROM HOT RUBBER PROCESSING.

SIGNATURE Lorna L. Lecher TITLE CHEMIST

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LAST REVISED (06/30/87)

SECTION I.

MATERIAL SAFETY DATA SHEET

MANUFACTURER

DATE 08777/88

BURTON RUBBER PROCESSING, INC.

14330 KINSMAN ROAD

BURTON, OHIO 44021

216-834-4644

CHEMICAL NAME AND SYNONYMS

CHEMICAL FAMILY
POLYMERIC

TRADE NAME

88003-10-2

FORMULA PROPRIETARY-GENERATED BY
DOW CHEMICAL

SECTION II.

HAZARDOUS INGREDIENTS

ACGIH OSHA OTH
TLV PEL **

MATERIALS LISTED IN THIS SECTION ARE IN CONCENTRATIONS OF 0.1% OR MORE IF CARCINOGENIC AND 1% OR MORE IF TOXIC, IRRITANT, ETC. PER 29CFR 1910.1200.

DIOCTYL PHTHALATE (DOP); BIS-2-ETHYL ANIMAL CARCINOGEN
HEXYL PHTHALATE (DEHP), CAS 117-81-7

5.00 5.00 10.
MG/M3 MG/M3 MG/

** SOURCE FOR OTHER- ACGIH STEL FOR OIL MIST

DIALLYL PHTHALATE (DAP) MONOMER, IRRITANT-EYE, SKIN, RESPIRATORY
CAS 131-17-9

NE NE NE

* NE- NOT ESTABLISHED

SECTION III.

PHYSICAL DATA

BOILING POINT (C F.) NA*

SPECIFIC GRAVITY (H2O=1) 1.49

VAPOR PRESSURE (MM HG.) NA

PERCENT VOLATILE NA
BY VOLUME (%)

VAPOR DENSITY (AIR=1) NA

SOLUBILITY IN WATER NIL

EVAPORATION RATE NA

APPEARANCE AND ODOR BLACK

POLYMERIC SOLID; CHARACTERISTIC ODOR

*NA- NOT APPLICABLE

SECTION IV.

FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (METHOD USED) NA*

FLAMMABLE LIMITS NA

EXTINGUISHING MEDIA - WATER SPRAY, PROTEIN TYPE AIR FOAM, ABC DRY CHEMICAL

SPECIAL FIRE FIGHTING PROCEDURES- WEAR SELF-CONTAINED BREATHING APPARATUS.

UNUSUAL FIRE AND EXPLOSION HAZARDS- NONE

*NA- NOT APPLICABLE

DO 085971
CONFIDENTIAL

SECTION V.

REACTIVITY DATA

STABILITY-
HAZARDOUS POLYMERIZATION-
MATERIALS TO AVOID-

STABLE; AVOID DECOMPOSITION TEMPERATURES
WILL NOT OCCUR; NO CONDITIONS TO AVOID
STRONG OXIDIZING AGENTS

HAZARDOUS DECOMPOSITION PRODUCTS
CO, CO2, HCL

SECTION VI.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE- SEE SECTION II. ENTRY ROUTE: INHALATION, SKIN, EYE

EFFECTS OF OVEREXPOSURE

CONTAINMENT IN POLYMERIC BINDER GREATLY REDUCES RISK OF CONTACT WITH
HAZARDOUS MATERIALS.

DOP/DEHP MAY CAUSE EYE, SKIN, MUCOUS MEMBRANE, UPPER RESPIRATORY TRACT IRRITA-
TION; VERY HIGH LEVELS FED TO RATS/MICE PRODUCED LIVER TUMORS (IARC/NTP);
ANIMAL TESTS ALSO INDICATE THAT TARGET ORGANS ARE THE LIVER, TESTES, AND FETUS.
DAP MONOMER VAPOR WILL CAUSE IRRITATION OF THE LUNGS, EYES, NOSE AND THROAT;
LIQUID CONTACT WILL CAUSE CORNEAL BURNS; CONTINUOUS EXPOSURE AT HIGH LEVELS
WILL CAUSE IRRITATION TO LUNGS, POSSIBLE LUNG CONGESTION, LIVER DAMAGE.

EMERGENCY AND FIRST AID PROCEDURES

FLUSH EYES/SKIN WITH PLENTY OF WATER - CONSULT PHYSICIAN IF IRRITATION PERSISTS

IF INHALED REMOVE TO FRESH AIR -

IF INGESTED, CONSULT PHYSICIAN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS (I.E., ASTHMA, CHRONIC BRONCHITIS,
EMPHYSEMA, ETC.) MAY BE ADVERSELY AFFECTED BY ANY FUME OR AIRBORNE PARTICULATE
EXPOSURE. SENSITIVE INDIVIDUALS MAY BE SUSCEPTABLE TO ALLERGIC REACTION UPON
CONTACT WITH SKIN, EYES, OR RESPIRATORY TRACT.

SECTION VII.

SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

COLLECT: RETURN TO CONTAINER

WASTE DISPOSAL METHOD:

DISPOSE OF IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII.

SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION

RECOMMEND NIOSH APPROVED ORGANIC VAPOR RESPIRATOR IF VENTILATION IS INADEQUATE
VENTILATION: LOCAL EXHAUST - YES

MECHANICAL (GENERAL) - YES

PROTECTIVE GLOVES: RECOMMEND IMPERVIOUS

EYE PROTECTION - RECOMMENDED

SECTION IX.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
STORE BELOW 120 F AWAY FROM DIRECT SOURCES OF HEAT AND SUNLIGHT.

OTHER PRECAUTIONS: WASH THOROUGHLY AFTER HANDLING

A CLASS OF MATERIALS CALLED NITROSAMINES ARE ANIMAL CARCINOGENS AND SHOULD BE TREATED AS POSSIBLE HUMAN CARCINOGENS. BECAUSE MANY RUBBER MATERIALS CONTAIN AMINE-BASED INGREDIENTS, TRACE RESIDUAL AMOUNTS (WELL BELOW 0.1%) OF NITROSAMINE ARE LIKELY TO EXIST IN MOST RUBBER COMPOUNDS AS A RESULT OF BEING FORMED IN EARLIER PROCESSING STEPS; CERTAIN PROCESSING STEPS CAN FORM HIGHER AMOUNTS OF NITROSAMINES. AVOID MIXING OR EXPOSING THIS PRODUCT WITH: NITRATES, NITRITES, NITROGEN OXIDES OR OTHER NITROSAMINES AS POTENTIALLY HAZARDOUS LEVELS OF NITROSAMINES MAY BE FORMED. SALT BATH CURING WITH NITRATE/NITRITE SALTS CAN BE EXPECTED TO PRODUCE HAZARDOUS AMOUNTS OF VOLATILE NITROSAMINES. EMISSIONS FROM SUCH PROCESSES MUST BE EXHAUSTED. EMPLOYEES MUST AVOID INHALING FUMES FROM HOT RUBBER PROCESSING.

SIGNATURE

Alexandra L. Lecher

TITLE CHEMIST

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LAST REVISED (06/30/87)

DO 085973
CONFIDENTIAL

SECTION I.

MATERIAL SAFETY DATA SHEET

DATE 03/17/88

MANUFACTURER

BURTON RUBBER PROCESSING, INC.

14370 KINDMAN ROAD

MURTON, OHIO 44021

216-634-4644

CHEMICAL NAME AND SYNONYMS

CHEMICAL FAMILY
POLYMERIC

TRADE NAME

88003-10-6

FORMULA PROPRIETARY-GENERATED BY
DOW CHEMICAL

SECTION II.

HAZARDOUS INGREDIENTS

ACGIH CSHA OTH
TLV PEL **

ALL MATERIALS LISTED IN THIS SECTION ARE IN CONCENTRATIONS OF 0.1% OR
MORE IF CARCINOGENIC AND 1% OR MORE IF TOXIC, IRRITANT, ETC.
EFFECTS: 1910.1200.

DIETHYL PHTHALATE (DEP) 100% - ETHYL ETHYL CARCINOGEN

5.00 5.00 10.

DIETHYL PHTHALATE (DEP) 100% - ETHYL ETHYL CARCINOGEN

5.00 5.00 10.

DIETHYL PHTHALATE (DEP) 100% - ETHYL ETHYL CARCINOGEN

ALL INFORMATION FURNISHED

PHYSICAL DATA

APPEARANCE (SOLID, LIQUID, GAS)

SPECIFIC GRAVITY (WATER=1) 1.43

APPEARANCE (SOLID, LIQUID, GAS)

PERCENT VOLATILE
AT 100°C (°C)

APPEARANCE (SOLID, LIQUID, GAS)

APPEARANCE (SOLID, LIQUID, GAS)

APPEARANCE (SOLID, LIQUID, GAS)

APPEARANCE (SOLID, LIQUID, GAS)

APPEARANCE (SOLID, LIQUID, GAS) CHARACTERISTIC SMELL

CHEMICAL DATA

APPEARANCE (SOLID, LIQUID, GAS)

FLAMMABLE LIMITS

TOXICITY: WATER SOLUBLE, PROTEIN TYPE AIR FOAM, AND DRY CHEMICAL

FIRE FIGHTING PROCEDURES- WEAR SELF-CONTAINED BREATHING APPARATUS.

EXPLOSION AND EXPLOSION HAZARDS- NONE

ALL INFORMATION FURNISHED

SECTION III.

REACTIVITY DATA

STABILITY

STABILITY: AVOID DECOMPOSITION TEMPERATURES

ALL INFORMATION FURNISHED

WILL NOT OCCUR UNDER CONDITIONS TO AVOID

ALL INFORMATION FURNISHED

STRONG OXIDIZING AGENTS

ALL INFORMATION FURNISHED

DO 085974
CONFIDENTIAL

SECTION VI.

HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE- SEE SECTION II. ENTRY ROUTE: INHALATION, SKIN, EYE

EFFECTS OF OVEREXPOSURE

CONTAINMENT IN POLY ETHYLENE GLOVES GREATLY REDUCES RISK OF CONTACT WITH HAZARDOUS MATERIALS.

OVEREXPOSURE MAY CAUSE EYE, SKIN, MUCCOUS MEMBRANE, UPPER RESPIRATORY TRACT IRRITATION. VERY HIGH LEVELS FED TO RATS/MICE PRODUCED LIVER TUMORS (IARC/NTP); ANIMAL TESTS ALSO INDICATE THAT TARGET ORGANS ARE THE LIVER, TESTES, AND FETUS.

EMERGENCY AND FIRST AID PROCEDURES

FLUSH EYES/SKIN WITH PLENTY OF WATER - CONSULT PHYSICIAN IF IRRITATION PERSISTS

IF INHALED REMOVE TO FRESH AIR -

IF INGESTED, CONSULT PHYSICIAN

RESPIRATORY IRRITATION GENERALLY AGGRAVATED BY EXPOSURE:

INDIVIDUALS WITH CHRONIC RESPIRATORY DISORDERS (I.E., ASTHMA, CHRONIC BRONCHITIS, ETC.) MAY BE ESPECIALLY SENSITIVE TO ANY FOGE OR AIRBORNE PARTICULATE RELEASED. SENSITIVE INDIVIDUALS MAY BE SUSCEPTIBLE TO ALLERGIC REACTION UPON CONTACT WITH FOG & VAPOR. RESPIRATORY TRACT.

SECTION VII.

SPILL CLEANUP PROCEDURES

IF SPILL OR LEAK OF MATERIAL IS RELEASED OR SPILLED:

COLLECT MATERIAL TO CONTAINER

DISPOSE PROPERLY

ACT IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

SECTION VIII.

FLOOD PROTECTION INFORMATION

CONTAINMENT BARRIER

USE OF FLOOD BARRIER OR FLOOD WATER RESISTANT IF VENTILATION IS IN ADEQUATE

VENTILATION: FLOOD BARRIER - YES

VENTILATION (ALL FLOOD) - YES

IF FLOOD IS IN PROGRESS: FLOOD BARRIER - YES FLOOD PROTECTION - FLOOD BARRIER

SECTION IX.

SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE
KEEP BELOW 120°F AWAY FROM DIRECT SOURCES OF HEAT AND SUNLIGHT.

OTHER PRECAUTIONS: WASH THOROUGHLY AFTER HANDLING

A CLASS OF MATERIALS CALLED NITROSAMINES ARE ANIMAL CARCINOGENS AND SHOULD BE TREATED AS POSSIBLE HUMAN CARCINOGENS. BECAUSE MANY RUBBER MATERIALS CONTAIN AMINE-BASED INGREDIENTS, TRACE RESIDUAL AMOUNTS (WELL BELOW 0.1%) OF NITROSAMINE ARE LIKELY TO EXIST IN MOST RUBBER COMPOUNDS AS A RESULT OF BEING FORMED IN EARLIER PROCESSING STEPS; CERTAIN PROCESSING STEPS CAN FORM HIGHER AMOUNTS OF NITROSAMINES - I.E. MIXING OR EXPOSING THIS PRODUCT WITH: NITRATES, NITRITES, NITROGEN OXIDES OR OTHER NITROSAMINES AS POTENTIALLY HAZARDOUS LEVELS OF NITROSAMINES MAY BE FORMED. SALT BATH CURING WITH NITRATE/NITRITE SALTS CAN BE EXPECTED TO PRODUCE HAZARDOUS AMOUNTS OF VOLATILE NITROSAMINES. EMISSIONS FROM SUCH PROCESSES MUST BE EXHAUSTED. EMPLOYEES MUST AVOID INHALING FUMES FROM HOT RUBBER PROCESSING.

NAME Alanna L. Wheeler TITLE CHEMIST

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LAST REVISED 06/30/87

DO 085976
CONFIDENTIAL

**C-7000**

MSDS ID: D-007375

1 - GENERAL INFORMATION

SARTOMER COMPANY
A DIVISION OF PONY INDUSTRIES
BOLMAR AND NIELDS STREETS
WEST CHESTER, PENNSYLVANIA 19382

EMERGENCY NUMBERS
800/424-9300 CHEMTREC
215/692-8401 SARTOMER
215/430-2200 INFO ONLY

TRADE NAME
C-7000
GENERIC NAME

DOT PROPER SHIPPING NAME
NOT REGULATED
DOT HAZARD CLASS
NOT REGULATED

UN/NA NUMBER
N/AP

2 - SUMMARY OF HAZARDS

CAUTION
PHYSICAL HAZARDS: POTENTIAL DUST EXPLOSION HAZARD

ACUTE HEALTH EFFECTS:
(SHORT-TERM) SLIGHT INHALATION HAZARD
SLIGHT EYE IRRITANT
SLIGHT SKIN IRRITANT/ALLERGIC SENSITIZER
SLIGHT INGESTION HAZARD
NO DATA ON SKIN ABSORPTION FOUND

CHRONIC HEALTH EFFECTS:
(LONG-TERM) NO APPROPRIATE HUMAN OR ANIMAL HEALTH EFFECTS
DATA ARE KNOWN TO EXIST.

3 - COMPONENTS

COMPONENT NAME	CAS NUMBER	% COMPOSITION BY (WT.)
ZINC DIMETHACRYLATE	13189-00-9	GT 99

4 - PHYSICAL AND CHEMICAL DATA

BOILING POINT	PH
N/AP	AP 5.3 TO 5.5
FREEZING POINT	DRY POINT
N/AP	N/AP
SPECIFIC GRAVITY (H2O=1 AT 39.2F)	VOLATILE CHARACTERISTICS
AP 1.50 AT 25C	NEGLECTIBLE
VISCOSITY UNITS, TEMP.	SOLUBILITY IN WATER
N/AP	SLIGHT
VAPOR PRESSURE	STABILITY
N/AP	STABLE
VAPOR SP GR (AIR=1 AT 60 - 90F)	HAZARDOUS POLYMERIZATION
N/AP	MAY OCCUR
APPEARANCE AND ODOR	
WHITE POWDER WITH SLIGHTLY ACIDIC ODOR	

DO 085977
CONFIDENTIAL



C-7000

MSDS ID: D-007375

4 - PHYSICAL AND CHEMICAL DATA (continued)

CONDITIONS AND MATERIALS TO AVOID
HEAT, DIRECT SUNLIGHT, OXIDIZING CONDITIONS
STRONG OXIDIZING AND REDUCING AGENTS
HAZARDOUS DECOMPOSITION PRODUCTS
CARBON MONOXIDE, CARBON DIOXIDE, ZINC OXIDE, AND ZINC PEROXIDE MAY BE RELEASED
IN A FIRE INVOLVING THIS PRODUCT.

5 - OCCUPATIONAL EXPOSURE LIMITS

SUBSTANCE	SOURCE	DATE	TYPE	VALUE	TIME
-----------	--------	------	------	-------	------

6 - FIRE AND EXPLOSION

FLASH POINT METHOD=	AUTOIGNITION TEMP. METHOD=
N/AP	N/AP
FLAMMABLE LIMITS (% VOLUME IN AIR)	
LOWER: N/AP	UPPER: N/AP
FIRE AND EXPLOSION HAZARDS	
WHEN MIXED WITH AIR AND EXPOSED TO IGNITION SOURCE, SUFFICIENT FLAMMABLE DUST MAY EXIST TO BURN IN OPEN OR EXPLODE IF CONFINED. USE GOOD HOUSE-KEEPING PRACTICES TO AVOID RENDERING DUST AIRBORNE. FLAMMABLE VAPORS MAY ALSO BE PRESENT FROM OVER HEATING/MELTING/DECOMPOSITION. VAPORS MAY CAUSE FIRE/EXPLOSION IF SOURCE OF IGNITION IS PRESENT.	
EXTINGUISHING MEDIA	
DRY CHEMICAL	
CO2	
WATER SPRAY	
FOAM	
WATER FOG	
SPECIAL FIREFIGHTING PROCEDURES	
DO NOT ENTER FIRE AREA WITHOUT PROPER PROTECTION. SEE SECTION ON DECOMPOSITION PRODUCTS POSSIBLE. FIGHT FIRE FROM SAFE DISTANCE/PROTECTED LOCATION. APPLY AQUEOUS EXTINGUISHING MEDIA CAREFULLY TO PREVENT FROTHING/STEAM EXPLOSION. USE WATER SPRAY/FOG FOR COOLING. AVOID CONTACT WITH MOLTEN PRODUCT TO PREVENT SERIOUS BURNS. AVOID RAISING POWDERED MATERIALS INTO AIRBORNE DUST, CREATING AN EXPLOSION HAZARD. NOTIFY AUTHORITIES IF LIQUID ENTERS SEWER/PUBLIC WATERS.	

7 - HEALTH HAZARDS

ROUTES OF EXPOSURE
INHALATION -- PRIMARY ROUTE
PROLONGED OVEREXPOSURE MAY CAUSE COUGHING, SHORTNESS OF BREATH, DIZZINESS AND INTOXICATION.
EYE CONTACT -- PRIMARY ROUTE
MAY CAUSE MINOR EYE IRRITATION.
SKIN ABSORPTION
NO APPROPRIATE HUMAN OR ANIMAL HEALTH EFFECTS DATA ARE KNOWN TO EXIST.
SKIN IRRITATION -- PRIMARY ROUTE
THIS MATERIAL HAS BEEN SHOWN TO BE A SLIGHT SKIN IRRITANT AND AN ALLERGIC SENSITIZER
INGESTION
THIS MATERIAL MAY BE A SLIGHT HEALTH HAZARD IF INGESTED IN LARGE QUANTITIES.
MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE
THIS MATERIAL OR ITS EMISSIONS MAY INDUCE AN ALLERGIC OR SENSITIZATION REACTION AND THEREBY AGGRAVATE SYSTEMIC DISEASE.

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8 - PROTECTIVE EQUIPMENT / CONTROL MEASURES

RESPIRATORY PROTECTION

NIOSH/MSHA APPROVED DUST OR MIST RESPIRATOR SHOULD BE USED IF AIRBORNE PARTICULATE IS GENERATED WHEN HANDLING THIS MATERIAL.

EYE PROTECTION

EYE PROTECTION SUCH AS CHEMICAL SPLASH GOGGLES AND/OR FACE SHIELD MUST BE WORN WHEN POSSIBILITY EXISTS FOR EYE CONTACT DUE TO SPLASHING OR SPRAYING LIQUID, AIRBORNE PARTICLES, OR VAPOR. CONTACT LENSES SHOULD NOT BE WORN.

SKIN PROTECTION

DEPENDING ON THE CONDITIONS OF USE, PROTECTIVE GLOVES, APRON, BOOTS, HEAD AND FACE PROTECTION SHOULD BE WORN. THIS EQUIPMENT SHOULD BE CLEANED THOROUGHLY AFTER EACH USE.

ENGINEERING CONTROLS

PROVIDE LOCAL EXHAUST OR GENERAL ROOM VENTILATION TO MINIMIZE EXPOSURE TO DUST. IF MECHANICAL VENTILATION IS USED, ELECTRICAL SYSTEMS SHOULD CONFORM TO NATIONAL ELECTRIC CODE.

OTHER HYGENIC PRACTICES

EMERGENCY EYE WASH FOUNTAINS AND SAFETY SHOWERS SHOULD BE AVAILABLE IN THE IMMEDIATE VICINITY OF ANY POTENTIAL EXPOSURE.

OTHER WORK PRACTICES

USE GOOD PERSONAL HYGIENE PRACTICES. WASH HANDS BEFORE EATING, DRINKING, SMOKING, OR USING TOILET FACILITIES. PROMPTLY REMOVE SOILED CLOTHING/WASH THOROUGHLY BEFORE REUSE. SHOWER AFTER WORK USING PLENTY OF SOAP AND WATER.

9 - EMERGENCY AND FIRST AID

INHALATION

IF OVERCOME BY EXPOSURE, REMOVE VICTIM TO FRESH AIR IMMEDIATELY. GIVE OXYGEN OR ARTIFICIAL RESPIRATION AS NEEDED. OBTAIN EMERGENCY MEDICAL ATTENTION. PROMPT ACTION IS ESSENTIAL.

EYE CONTACT

IN CASE OF EYE CONTACT, IMMEDIATELY RINSE WITH CLEAN WATER FOR 20-30 MINUTES. RETRACT EYELIDS OFTEN. OBTAIN EMERGENCY MEDICAL ATTENTION IF PAIN, BLINKING, TEARS OR REDNESS PERSIST.

SKIN CONTACT

REMOVE CONTAMINATED CLOTHING AS NEEDED. WASH SKIN THOROUGHLY WITH MILD SOAP/WATER. FLUSH WITH LUKEWARM WATER FOR 15 MINUTES. IF STICKY, USE WATER-LESS CLEANER FIRST.

INGESTION

IF LARGE QUANTITY SWALLOWED, GIVE LUKEWARM WATER (PINT) IF VICTIM COMPLETELY CONSCIOUS/ALERT. DO NOT INDUCE VOMITING/RISK OF DAMAGE TO LUNGS EXCEEDS POISONING RISK. OBTAIN EMERGENCY MEDICAL ATTENTION.

EMERGENCY MEDICAL TREATMENT PROCEDURES

TREAT SYMPTOMATICALLY.

NOT APPLICABLE

10 - SPILL AND DISPOSAL

PRECAUTIONS IF MATERIAL IS SPILLED OR RELEASED

RELEASE MAY CREATE A DUST EXPLOSION HAZARD. MAY CONTAMINATE WATER SUPPLIES. EXTINGUISH ALL IGNITION SOURCES. ON LAND, SWEEP/SHOVEL INTO SUITABLE DISPOSAL CONTAINERS OR VACUUM USING EQUIPMENT WHICH AVOIDS IGNITION RISK. AVOID MAKING DUST. ON WATER, CONTAIN/MINIMIZE DISPERSION/ COLLECT. REPORT PER REGULATORY REQUIREMENTS.

WASTE DISPOSAL METHODS

CONTAMINATED PRODUCT/SOIL/WATER MAY BE RCRA/OSHA HAZARDOUS WASTE (SEE 40 CFR 261 AND 29 CFR 1910). COMPLY WITH FEDERAL/STATE/LOCAL REGULATIONS FOR SOLID WASTE DISPOSAL. LANDFILL SOLIDS AT PERMITTED SITES. USE REGISTERED TRANSPORTERS.



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11 - ADDITIONAL PRECAUTIONS

HANDLING AND STORAGE PROCEDURES

TYPICALLY SHIPPED IN FIBER DRUMS LINED WITH POLYETHYLENE. STORE IN A DRY PROTECTED LOCATION TO PREVENT POTENTIAL DILUTION. STORAGE IN STEEL CONTAINERS MAY CAUSE PRODUCT DISCOLORATION DUE TO RUST.

DECONTAMINATION PROCEDURES

FOLLOW STANDARD PLANT PROCEDURES OR SUPERVISOR'S INSTRUCTIONS FOR DECONTAMINATION OPERATIONS.

12 - LABEL INFORMATION

USE STATEMENT

FOR INDUSTRIAL USE ONLY
KEEP OUT OF REACH OF CHILDREN

SIGNAL WORD

CAUTION

PHYSICAL HAZARDS

POTENTIAL DUST EXPLOSION HAZARD

HEALTH HAZARDS

INHALATION HAZARD

EYE IRRITANT

SKIN IRRITANT

INGESTION HAZARD

PRECAUTIONARY MEASURES

DO NOT HANDLE NEAR HEAT, SPARKS, OR OPEN FLAME.

AVOID ACCUMULATION OF DUST IN ENCLOSED SPACE.

KEEP CONTAINER CLOSED WHEN NOT IN USE.

AVOID CONTACT WITH EYES.

AVOID PROLONGED OR REPEATED BREATHING OF VAPOR.

AVOID PROLONGED OR REPEATED CONTACT WITH SKIN.

USE WITH ADEQUATE VENTILATION.

PREVENT CONTACT WITH FOOD, CHEWING, OR SMOKING MATERIALS.

WASH THOROUGHLY AFTER HANDLING.

DO NOT TASTE/SWALLOW.

13 - SUPPLEMENT

NPCA - HMIS RATING

HEALTH 1
FLAMMABILITY 4 (DUST)
REACTIVITY 1
PERSONAL PROTECTION J

PROTECTION**NOTE -- QUALIFIERS AND CODES USED IN THIS MSDS**

EQ = EQUAL	AP = APPROXIMATELY
LT = LESS THAN	GT = GREATER THAN
TR = TRACE	UK = UNKNOWN
N/AP = NOT APPLICABLE	N/P = NO APPLICABLE INFORMATION FOUND
N/DA = NO DATA AVAILABLE	

14 - DISCLAIMERS

SOME OF THE INFORMATION PRESENTED AND CONCLUSIONS DRAWN HEREIN ARE FROM SOURCES OTHER THAN DIRECT TEST DATA ON THE PRODUCT ITSELF.

THE INFORMATION IN THIS MSDS WAS OBTAINED FROM SOURCES WHICH WE BELIEVE ARE RELIABLE. HOWEVER, THE INFORMATION IS PROVIDED WITHOUT ANY WARRANTY, EXPRESS OR IMPLIED, REGARDING ITS CORRECTNESS.

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MATERIAL SAFETY DATA SHEET



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1 - DISCLAIMERS (continued)

PRODUCT ARE BEYOND OUR CONTROL AND MAY BE BEYOND OUR KNOWLEDGE. FOR THIS AND OTHER REASONS, WE DO NOT ASSUME RESPONSIBILITY AND EXPRESSLY DISCLAIM LIABILITY FOR LOSS, DAMAGE OR EXPENSE ARISING OUT OF OR IN ANY WAY CONNECTED WITH THE HANDLING, STORAGE, USE OR DISPOSAL OF THE PRODUCT.

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