

MATERIAL SAFETY DATA SHEET

penreco

A DIVISION OF PENNZOIL PRODUCTS COMPANY

100

I PRODUCT IDENTIFICATION

Manufacturer's Name	PENRECO	CAS Number: 8042-47-5
Address	4401 PARK AVENUE DICKINSON, TEXAS 77539	MSDS Code: 001145
		NFPA Hazard Identification Degree of Hazard Hazard Ratings Health: 0 0 - Least Fire: 1 1 - Slight Reactivity: 0 2 - Moderate 3 - High 4 - Extreme
Emergency Telephone No.	(713) 236-6070	
Trade Name	DRAKEOL® 21 MINERAL OIL USP	
Synonyms	WHITE MINERAL OIL	

II INGREDIENTS

COMPONENT NAME CAS NUMBER	HAZARDOUS IN BLEND	PERCENTAGE MIN MAX	COMPONENT EXPOSURE LIMITS	UNITS
WHITE MINERAL OIL 8042-47-5	NO	100.00	OSHA PEL ACGIH TLV	NO LIMIT NO LIMIT

BY: ENVIRONMENTAL, SAFETY & HEALTH
(713) 546-6227

EFFECTIVE DATE: APRIL 14, 1992

DISCLAIMER OF WARRANTY:

THE INFORMATION CONTAINED HEREIN IS BASED UPON DATA AVAILABLE TO US, AND REFLECTS OUR BEST PROFESSIONAL JUDGEMENT. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY USE, OR ANY OTHER WARRANTY IS EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF SUCH DATA. THE RESULTS TO BE OBTAINED FROM THE USE THEREOF, OR THAT ANY SUCH USE DOES NOT INFRINGE ANY PATENT, SINCE THE INFORMATION CONTAINED HEREIN MAY BE APPLIED UNDER CONDITIONS OF USE BEYOND OUR CONTROL AND WITH WHICH WE MAY BE UNFAMILIAR, WE DO NOT ASSUME ANY RESPONSIBILITY FOR THE RESULTS OF SUCH APPLICATION. THIS INFORMATION IS FURNISHED UPON THE CONDITION THAT THE PERSON RECEIVING IT SHALL MAKE HIS OWN DETERMINATION OF THE SUITABILITY OF THE MATERIAL FOR HIS PARTICULAR PURPOSE.

REQUIRED UNDER USDL SAFETY AND HEALTH REGULATIONS FOR SHIP REPAIRING, SHIPBUILDING, AND SHIPBREAKING
(29 CFR 1915, 1916, 1917).

DO 085513
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III HEALTH EFFECT INFORMATION**EYE CONTACT**

THIS PRODUCT IS MINIMALLY IRRITATING TO THE EYES UPON DIRECT CONTACT. BASED ON TESTING OF SIMILAR PRODUCTS AND/OR COMPONENTS.

SKIN CONTACT

THIS PRODUCT IS NOT EXPECTED TO CAUSE ANY SKIN IRRITATION UPON DIRECT SINGLE OR REPEATED AND PROLONGED CONTACT; HOWEVER, SIMILAR CHEMICAL COMPOSITION PRODUCTS APPLIED TO THE SKIN OF LABORATORY ANIMALS RESULTED IN MINIMAL TO SLIGHT DERMAL IRRITATION.

INHALATION

THIS PRODUCT HAS A LOW VAPOR PRESSURE AND IS NOT EXPECTED TO PRESENT AN INHALATION HAZARD AT AMBIENT CONDITIONS. CAUTION SHOULD BE TAKEN TO PREVENT AEROSOLIZATION OR MISTING OF THIS PRODUCT. THE PERMISSIBLE EXPOSURE LIMIT (PEL) AND THRESHOLD LIMIT VALUE (TLV) FOR THIS PRODUCT AS OIL MIST IS 5 MG/M3. EXPOSURES BELOW 5 MG/M3 APPEAR TO BE WITHOUT SIGNIFICANT HEALTH RISK. THE SHORT-TERM EXPOSURE LIMIT FOR THIS PRODUCT AS AN OIL MIST IS 10 MG/M3. SEE HEALTH DATA SECTION BELOW.

INGESTION

INGESTION IS RELATIVELY NON-TOXIC UNLESS ASPIRATION OCCURS. THIS PRODUCT HAS LAXATIVE PROPERTIES AND MAY RESULT IN ABDOMINAL CRAMPS AND DIARRHEA. SEE HEALTH DATA SECTION BELOW.

HEALTH DATA

EXPOSURE TO A LARGE SINGLE DOSE, OR REPEATED SMALL DOSES OF MINERAL OIL BY INHALATION, ASPIRATION OR INGESTION LEADING TO ASPIRATION CAN LEAD TO LIPID PNEUMONIA OR LIPID GRANULOMA. THESE ARE LOW-GRADE, CHRONIC, LOCALIZED TISSUE REACTIONS WHICH ARE NOT FATAL. SHORTNESS OF BREATH AND COUGH ARE THE MOST COMMON SYMPTOMS. THE INTERNATIONAL AGENCY FOR RESEARCH ON CANCER (IARC) HAS CONCLUDED THAT HIGHLY REFINED MINERAL OILS ARE GROUP 3 SUBSTANCES, "NOT CLASSIFIABLE AS TO THEIR CARCINOGENICITY TO HUMANS," BASED ON INADEQUATE HUMAN AND INADEQUATE ANIMAL EVIDENCE. IARC HAS ALSO CONCLUDED THAT THERE IS NO EVIDENCE FOR THE CARCINOGENICITY TO EXPERIMENTAL ANIMALS OF WHITE OILS WHEN ADMINISTERED BY ROUTES OTHER THAN BY INTRAPERITONEAL INJECTION. THIS SUBSTANCE IS NOT CARCINOGENIC ACCORDING TO THE OSHA HAZARD COMMUNICATION STANDARD.

IV. EMERGENCY & FIRST AID PROCEDURES**EYE CONTACT**

IMMEDIATELY FLUSH EYES WITH LARGE AMOUNTS OF WATER AND CONTINUE FLUSHING UNTIL IRRITATION SUBSIDES. IF MATERIAL IS HOT, TREAT FOR THERMAL BURNS AND TAKE VICTIM TO HOSPITAL IMMEDIATELY.

SKIN CONTACT

REMOVE CONTAMINATED CLOTHING. IF MATERIAL IS HOT, SUBMERGE INJURED AREA IN COLD WATER. IF VICTIM IS SEVERELY BURNED, REMOVE TO A HOSPITAL IMMEDIATELY.

INHALATION

THIS MATERIAL HAS A LOW VAPOR PRESSURE AND IS NOT EXPECTED TO PRESENT AN INHALATION EXPOSURE AT AMBIENT CONDITIONS.

INGESTION

MAY ACT AS A LAXATIVE. DO NOT INDUCE VOMITING.

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V PERSONAL HEALTH PROTECTION INFORMATION**EYE
PROTECTION**

EYE PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF MATERIAL IS HANDLED SUCH THAT IT COULD BE SPLASHED INTO EYES, WEAR PLASTIC FACE SHIELD OR SPLASH-PROOF SAFETY GOGGLES.

**SKIN
PROTECTION**

NO SKIN PROTECTION IS REQUIRED FOR SINGLE, SHORT DURATION EXPOSURES. FOR PROLONGED OR REPEATED EXPOSURES, USE IMPERVIOUS CLOTHING (BOOTS, GLOVES, APRONS, ETC.) OVER PARTS OF THE BODY SUBJECT TO EXPOSURE. IF HANDLING HOT MATERIAL, USE INSULATED PROTECTIVE CLOTHING (BOOTS, GLOVES, APRONS, ETC.).

**RESPIRATORY
PROTECTION**

RESPIRATORY PROTECTION IS NOT REQUIRED UNDER CONDITIONS OF NORMAL USE. IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, USE AN ORGANIC VAPOR RESPIRATOR WITH A DUST AND MIST FILTER. ALL RESPIRATORS MUST BE NIOSH CERTIFIED. DO NOT USE COMPRESSED OXYGEN IN HYDROCARBON ATMOSPHERES.

VENTILATION

IF VAPOR OR MIST IS GENERATED WHEN THE MATERIAL IS HEATED OR HANDLED, ADEQUATE VENTILATION IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE MUST BE PROVIDED TO MAINTAIN CONCENTRATIONS BELOW THE SPECIFIED EXPOSURE OR FLAMMABLE LIMITS.

OTHER

CONSUMPTION OF FOOD AND BEVERAGE SHOULD BE AVOIDED IN WORK AREAS WHERE HYDROCARBONS ARE PRESENT. ALWAYS WASH HANDS AND FACE WITH SOAP AND WATER BEFORE EATING, DRINKING, OR SMOKING.

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VI FIRE PROTECTION INFORMATION

FLASH POINT 380F

TEST METHOD C.O.C.

AUTOIGNITION TEMPERATURE NO DATA

TEST METHOD NO DATA

FLAMMABLE LIMITS IN AIR % BY VOL

LOWER NO DATA

UPPER NO DATA

EXTINGUISHING
MEDIA

USE DRY CHEMICAL, FOAM, OR CARBON DIOXIDE.

SPECIAL FIRE
FIGHTING
PROCEDURESWATER MAY BE INEFFECTIVE BUT CAN BE USED TO COOL CONTAINERS EXPOSED TO HEAT OR FLAME.
CAUTION SHOULD BE EXERCISED WHEN USING WATER OR FOAM AS FROTHING MAY OCCUR, ESPECIALLY IF
SPRAYED INTO CONTAINERS OF HOT, BURNING LIQUID.UNUSUAL FIRE
AND EXPLOSIVE
CONDITIONSDENSE SMOKE MAY BE GENERATED WHILE BURNING. CARBON MONOXIDE, CARBON DIOXIDE, AND OTHER
OXIDES MAY BE GENERATED AS PRODUCTS OF COMBUSTION.**VII REACTIVITY DATA**STABILITY
(THERMAL,
LIGHT, ETC.)

STABLE

CONDITIONS TO
AVOID

NONE

HAZARDOUS
POLYMERIZATION

WILL NOT OCCUR

CONDITIONS TO
AVOID

NONE

INCOMPATIBILITY
MATERIALS TO AVOID

MAY REACT WITH STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION
PRODUCTS

NONE

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VIII ENVIRONMENTAL PRECAUTIONS**STEPS TO BE
TAKEN IF
MATERIAL IS
RELEASED OR
SPILLED**

CONSULT HEALTH EFFECT INFORMATION IN SECTION III, PERSONAL HEALTH PROTECTION INFORMATION IN SECTION V, FIRE PROTECTION INFORMATION IN SECTION VI, AND REACTIVITY DATA IN SECTION VII. NOTIFY APPROPRIATE AUTHORITIES OF SPILL. CONTAIN SPILL IMMEDIATELY. DO NOT ALLOW SPILL TO ENTER SEWERS OR WATERCOURSES. REMOVE ALL SOURCES OF IGNITION. ABSORB WITH APPROPRIATE INERT MATERIAL SUCH AS SAND, CLAY, ETC.. LARGE SPILLS MAY BE PICKED UP USING VACUUM PUMPS, SHOVELS, BUCKETS, OR OTHER MEANS AND PLACED IN DRUMS OR OTHER SUITABLE CONTAINERS.

**WASTE DISPOSAL
METHOD**

ALL DISPOSALS MUST COMPLY WITH FEDERAL, STATE, AND LOCAL REGULATIONS. THE MATERIAL, IF SPILLED OR DISCARDED, MAY BE A REGULATED WASTE. REFER TO STATE AND LOCAL REGULATIONS. CAUTION! IF REGULATED SOLVENTS ARE USED TO CLEAN UP SPILLED MATERIAL, THE RESULTING WASTE MIXTURE MAY BE REGULATED. DEPARTMENT OF TRANSPORTATION (DOT) REGULATIONS MAY APPLY FOR TRANSPORTING THIS MATERIAL WHEN SPILLED. WASTE MATERIAL MAY BE LANDFILLED OR INCINERATED AT AN APPROVED FACILITY. MATERIALS SHOULD BE RECYCLED IF POSSIBLE.

IX MISCELLANEOUS**HANDLING AND
STORAGE
REQUIREMENTS**

DO NOT TRANSFER TO UNMARKED CONTAINERS. STORE IN CLOSED CONTAINERS AWAY FROM HEAT, SPARKS, OPEN FLAME, OR OXIDIZING MATERIALS. THIS PRODUCT IS NOT CLASSIFIED AS HAZARDOUS UNDER DOT REGULATIONS. FIRE EXTINGUISHERS SHOULD BE KEPT READILY AVAILABLE. SEE NFPA 30 AND OSHA 1910.106--FLAMMABLE AND COMBUSTIBLE LIQUIDS.

**ADDITIONAL
INFORMATION**

THIS PRODUCT IS NOT KNOWN TO CONTAIN ANY SARA TITLE III, SECTION 313 REPORTABLE CHEMICALS AT OR GREATER THAN 1.0% (0.1% FOR CARCINOGENS).

THIS PRODUCT IS ON THE TOXIC SUBSTANCES CONTROL ACT (TSCA) INVENTORY.

X PHYSICAL PROPERTIES

BOILING POINT	600F	PERCENT VOLATILE	NIL
MELTING POINT	N/A	VAPOR DENSITY (AIR=1)	NO DATA
APPEARANCE	TRANSPARENT WATER-WHITE LIQUID	EVAPORATION RATE (EE=1)	< 1
ODOR	ODORLESS.	SPECIFIC GRAVITY	0.876 @ 60/60F
VAPOR PRESSURE	< 1MM HG @ 70F	MOLECULAR WEIGHT	VARIES
SOLUBILITY	SOLUBLE IN HYDROCARBONS.		

M A T E R I A L S A F E T Y D A T A S H E E T

DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25123

PAGE: 1

PRODUCT NAME: VECTOR (R) 4211-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 08/16/90 DATE PRINTED: 05/07/92

MSD: 002756

1. INGREDIENTS: (% W/W, UNLESS OTHERWISE NOTED)

STYRENE-ISOPRENE BLOCK COPOLYMER	CAS# 025038-32-8	>98%
ADDITIVES		<1%

THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). IN ADDITION, OTHER SUBSTANCES NOT 'HAZARDOUS' PER THIS OSHA STANDARD MAY BE LISTED. WHERE PROPRIETARY INGREDIENT SHOWS, THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD.

2. PHYSICAL DATA:

BOILING POINT: NOT APPLICABLE
VAP. PRESS: NEGLIGIBLE
VAP. DENSITY: NOT APPLICABLE
SOL. IN WATER: NEGLIGIBLE
SP. GRAVITY: 0.92
APPEARANCE: NATURAL COLOR PELLET
ODOR: NONE

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: NOT APPLICABLE
METHOD USED: NOT APPLICABLE

FLAMMABLE LIMITS
LFL: NOT APPLICABLE
UFL: NOT APPLICABLE

EXTINGUISHING MEDIA: WATER FOG, FOAM, CO2, AND DRY CHEMICAL.

FIRE AND EXPLOSION HAZARDS: AVOID INHALATION OF SMOKE.

FIRE-FIGHTING EQUIPMENT: WEAR POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS.

4. REACTIVITY DATA:

STABILITY (CONDITIONS TO AVOID) DO NOT STORE ABOVE 200 F.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) STRONG OXIDIZING

(CONTINUED ON PAGE 2)

(R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

* OPERATING UNIT OF THE DOW CHEMICAL COMPANY

DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

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PRODUCT NAME: VECTOR (R) 4211-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 08/16/90

DATE PRINTED: 05/07/92

MSD: 002756

4. REACTIVITY DATA: (CONTINUED)

AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND ORGANIC COMPOUNDS UPON COMBUSTION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION

ACTION TO TAKE FOR SPILLS: SWEEP UP OR PICK UP WITH AN INDUSTRIAL VACUUM CLEANER. PUT IN A CONTAINER FOR DISPOSAL.

DISPOSAL METHOD: RECLAIM, BURN IN A CHEMICAL INCINERATOR, OR BURY IN AN APPROVED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

6. HEALTH HAZARD DATA

EYE: SOLID OR DUST MAY CAUSE IRRITATION OR CORNEAL INJURY DUE TO MECHANICAL ACTION.

SKIN CONTACT: ESSENTIALLY NONIRRITATING TO SKIN. MECHANICAL INJURY ONLY.

SKIN ABSORPTION: SKIN ABSORPTION IS UNLIKELY DUE TO PHYSICAL PROPERTIES.

INGESTION: SINGLE DOSE ORAL LD50 HAS NOT BEEN DETERMINED. SINGLE DOSE ORAL TOXICITY IS BELIEVED TO BE VERY LOW. NO HAZARDS ANTICIPATED FROM SWALLOWING SMALL AMOUNTS INCIDENTAL TO NORMAL HANDLING OPERATIONS.

INHALATION: DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT.

SYSTEMIC AND OTHER EFFECTS: ADDITIVES ARE ENCAPSULATED IN THE PRODUCT AND ARE NOT EXPECTED TO BE RELEASED UNDER NORMAL PROCESSING CONDITIONS.

(CONTINUED ON PAGE 3)

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PRODUCT CODE: 25123

PAGE: 3

PRODUCT NAME: VECTOR (R) 4211-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 08/16/90

DATE PRINTED: 05/07/92

MSD: 002756

7. FIRST AID:

EYES: IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 5 MINUTES.
MECHANICAL EFFECTS ONLY.

SKIN: WASH OFF IN FLOWING WATER OR SHOWER.

INGESTION: NO ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF
EXPOSURE INCIDENTAL TO PROPER INDUSTRIAL HANDLING.

INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A
PHYSICIAN.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): NONE ESTABLISHED FOR COPOLYMER.

VENTILATION: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR
MOST CONDITIONS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR
SOME OPERATIONS.

RESPIRATORY PROTECTION: FOR MOST CONDITIONS, NO RESPIRATORY
PROTECTION SHOULD BE NEEDED; HOWEVER, IF HANDLING AT ELEVATED
TEMPERATURES WITHOUT SUFFICIENT VENTILATION, USE AN APPROVED
AIR-PURIFYING RESPIRATOR. IN DUSTY ATMOSPHERES, USE AN APPROVED
DUST RESPIRATOR.

SKIN PROTECTION: NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING
CLOTHING SHOULD BE NEEDED.

EYE PROTECTION: USE SAFETY GLASSES. IF THERE IS A POTENTIAL FOR
EXPOSURE TO PARTICLES WHICH COULD CAUSE MECHANICAL INJURY
TO THE EYE, WEAR CHEMICAL GOGGLES.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: PRODUCT
CAN ACCUMULATE ELECTROSTATIC CHARGES WHEN RUBBED, CHAFED OR
ABRADED. STATIC DISCHARGE IN THE PRESENCE OF VOLATILE OR
FLAMMABLE MIXTURES PRESENTS A POTENTIAL FIRE OR EXPLOSION
HAZARD. EQUIPMENT SHOULD PROVIDE A MEANS FOR DISSIPATING ANY
CHARGES THAT MAY DEVELOP.

(CONTINUED ON PAGE 4)

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PRODUCT CODE: 25123

PAGE: 4

PRODUCT NAME: VECTOR (R) 4211-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 08/16/90

DATE PRINTED: 05/07/92

MSD: 002756

9. ADDITIONAL INFORMATION: (CONTINUED)

COMPOUNDING OF PRODUCT IN HIGH SHEAR EQUIPMENT CAN CAUSE THE TEMPERATURE TO RISE. DO NOT ALLOW THE TEMPERATURE TO EXCEED 450F. MAINTAIN A FIRE WATCH IF 450F IS REACHED.

MSDS STATUS: REVISED SECTION 2 (SPECIAL PRECAUTIONS).

FOR INFORMATION REGARDING STATE/PROVINCIAL AND FEDERAL REGULATIONS SEE THE REGULATORY INFORMATION SECTION.

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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25123

PAGE: R-1

PRODUCT NAME: VECTOR (R) 4211-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 08/16/90

DATE PRINTED: 05/07/92

MSD: 002756

REGULATORY INFORMATION: (NOT MEANT TO BE ALL-INCLUSIVE-- SELECTED REGULATIONS REPRESENTED.)

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1.1 REGULATIONS

SARA HAZARD CATEGORY. THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES.

NOT TO HAVE MET ANY HAZARD CATEGORY

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M A T E R I A L S A F E T Y D A T A S H E E T

DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 26961

PAGE: 1

PRODUCT NAME: VECTOR (R) 6240-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

1. INGREDIENTS. (% W/W, UNLESS OTHERWISE NOTED)

STYRENE-BUTADIENE BLOCK COPOLYMER	CAS# 009003-55-8	>98%
ADDITIVE		<1%

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2. PHYSICAL DATA:

BOILING POINT: NOT APPLICABLE
VAP. PRESS: NEGLIGIBLE
VAP. DENSITY: NOT APPLICABLE
SOL. IN WATER: NEGLIGIBLE
SP. GRAVITY: 0.92
APPEARANCE: NATURAL COLOR PELLET OR CRUMBS
ODOR: NONE

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: NOT APPLICABLE
METHOD USED: NOT APPLICABLE

FLAMMABLE LIMITS:
LFL: NOT APPLICABLE
UFL: NOT APPLICABLE

EXTINGUISHING MEDIA: WATER FOG, FOAM, CO2, AND DRY CHEMICAL.

FIRE AND EXPLOSION HAZARDS: AVOID INHALATION OF SMOKE.

FIRE-FIGHTING EQUIPMENT WEAR POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS.

4. REACTIVITY DATA.

STABILITY: (CONDITIONS TO AVOID) DO NOT STORE ABOVE 200 F.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) STRONG OXIDIZING

(CONTINUED ON PAGE 2)

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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 26961

PAGE: R-1

PRODUCT NAME VECTOR (R) 6240-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

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REGULATORY INFORMATION: (NOT MEANT TO BE ALL-INCLUSIVE-- SELECTED REGULATIONS REPRESENTED.)

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U.S. REGULATIONS

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NOT TO HAVE MET ANY HAZARD CATEGORY

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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 26961

PAGE: 2

PRODUCT NAME: VECTOR (R) 6240-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

2. REACTIVITY DATA: (CONTINUED)

AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND ORGANIC COMPOUNDS UPON COMBUSTION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS: SWEEP UP OR PICK UP WITH AN INDUSTRIAL VACUUM CLEANER. PUT INTO CONTAINER FOR DISPOSAL.

DISPOSAL METHOD: RECLAIM, BURN IN A CHEMICAL INCINERATOR, OR BURY IN AN APPROVED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

3. HEALTH HAZARD DATA:

EYE: SOLID OR DUST MAY CAUSE IRRITATION OR CORNEAL INJURY DUE TO MECHANICAL ACTION.

SKIN CONTACT: ESSENTIALLY NONIRRITATING TO SKIN. MECHANICAL INJURY ONLY.

SKIN ABSORPTION: SKIN ABSORPTION IS UNLIKELY DUE TO PHYSICAL PROPERTIES.

INGESTION: SINGLE DOSE ORAL LD50 HAS NOT BEEN DETERMINED. SINGLE DOSE ORAL TOXICITY IS BELIEVED TO BE VERY LOW. CONSIDERED TO BE PHYSIOLOGICALLY INERT. NO HAZARDS ANTICIPATED FROM SWALLOWING SMALL AMOUNTS INCIDENTAL TO NORMAL HANDLING OPERATIONS.

INHALATION: DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT.

SYSTEMIC AND OTHER EFFECTS: ADDITIVES ARE ENCAPSULATED IN THE PRODUCT AND ARE NOT EXPECTED TO BE RELEASED UNDER NORMAL PROCESSING CONDITIONS.

(CONTINUED ON PAGE 3)

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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636--400

PRODUCT CODE: 26961

PAGE: 3

PRODUCT NAME: VECTOR (R) 6240-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

7. FIRST AID:

EYES: IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 5 MINUTES.
MECHANICAL EFFECTS ONLY.

SKIN: WASH OFF IN FLOWING WATER OR SHOWER.

INGESTION: NO ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF
EXPOSURE INCIDENTAL TO PROPER INDUSTRIAL HANDLING.

INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A
PHYSICIAN.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE(S): NONE ESTABLISHED FOR COPOLYMER.

VENTILATION: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR
MOST CONDITIONS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR
SOME OPERATIONS.

RESPIRATORY PROTECTION: FOR MOST CONDITIONS, NO RESPIRATORY
PROTECTION SHOULD BE NEEDED; HOWEVER, IF HANDLING AT ELEVATED
TEMPERATURES WITHOUT SUFFICIENT VENTILATION, USE AN APPROVED
AIR-PURIFYING RESPIRATOR. IN DUSTY ATMOSPHERES, USE AN
APPROVED DUST RESPIRATOR.

SKIN PROTECTION: NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING
CLOTHING SHOULD BE NEEDED.

EYE PROTECTION: USE SAFETY GLASSES. IF THERE IS A POTENTIAL FOR
EXPOSURE TO PARTICLES WHICH COULD CAUSE MECHANICAL INJURY TO
THE EYE, WEAR CHEMICAL GOGGLES.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: PRODUCT
CAN ACCUMULATE ELECTROSTATIC CHARGES WHEN RUBBED, CHAFED OR
ABRADED. STATIC DISCHARGE IN THE PRESENCE OF VOLATILE OR
FLAMMABLE MIXTURES PRESENTS A POTENTIAL FIRE OR EXPLOSION
HAZARD. EQUIPMENT SHOULD PROVIDE A MEANS FOR DISSIPATING ANY
CHARGES THAT MAY DEVELOP.

(CONTINUED ON PAGE 4)

(R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

* ... OPERATING UNIT OF THE DOW CHEMICAL COMPANY

DO 085527
CONFIDENTIAL

DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 26961

PAGE: 4

PRODUCT NAME: VECTOR (R) 6240-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

7. ADDITIONAL INFORMATION: (CONTINUED)

COMPOUNDING OF PRODUCT IN HIGH SHEAR EQUIPMENT CAN CAUSE THE TEMPERATURE TO RISE. DO NOT ALLOW THE TEMPERATURE TO EXCEED 450F. MAINTAIN A FIRE WATCH IF 450F IS REACHED.

MSDS STATUS: REVISED SECTION 2 (APPEARANCE)

FOR INFORMATION REGARDING STATE/PROVINCIAL AND FEDERAL REGULATIONS SEE THE REGULATORY INFORMATION SECTION.

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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25383

PAGE: R-1

PRODUCT NAME: VECTOR (R) 8550-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

REGULATORY INFORMATION: (NOT MEANT TO BE ALL-INCLUSIVE-- SELECTED REGULATIONS REPRESENTED.)

NOTICE: THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, IS GIVEN. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER; IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS. THE FOLLOWING SPECIFIC INFORMATION IS MADE FOR THE PURPOSE OF COMPLYING WITH NUMEROUS FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS AND REGULATIONS. SEE MSD SHEET FOR HEALTH AND SAFETY INFORMATION.

U.S. REGULATIONS

DATA HAZARD CATEGORY: THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES.

NOT TO HAVE MET ANY HAZARD CATEGORY

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M A T E R I A L S A F E T Y D A T A S H E E T

DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25383

PAGE: 1

PRODUCT NAME: VECTOR (R) 8550-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92 DATE PRINTED: 05/07/92

MSD: 003544

1. INGREDIENTS: (% W/W, UNLESS OTHERWISE NOTED)

STYRENE-BUTADIENE BLOCK COPOLYMER	CAS# 009003-55-8	>98%
ADDITIVES		<1%

THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). IN ADDITION, OTHER SUBSTANCES NOT 'HAZARDOUS' PER THIS OSHA STANDARD MAY BE LISTED. WHERE PROPRIETARY INGREDIENT SHOWS, THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD.

2. PHYSICAL DATA:

BOILING POINT: NOT APPLICABLE
VAP. PRESS: NEGLIGIBLE
VAP. DENSITY: NOT APPLICABLE
SOL. IN WATER: NEGLIGIBLE
SP. GRAVITY: 0.92
APPEARANCE: NATURAL COLOR PELLET OR CRUMBS
ODOR: NONE

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: NOT APPLICABLE
METHOD USED: NOT APPLICABLE

FLAMMABLE LIMITS:
LFL: NOT APPLICABLE
UFL: NOT APPLICABLE

EXTINGUISHING MEDIA: WATER FOG, FOAM, CO2, AND DRY CHEMICAL.

FIRE AND EXPLOSION HAZARDS: AVOID INHALATION OF SMOKE.

FIRE-FIGHTING EQUIPMENT: WEAR POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) DO NOT STORE ABOVE 200 F.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) STRONG OXIDIZING

(CONTINUED ON PAGE 2)

(R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

* DOW OPERATING UNIT OF THE DOW CHEMICAL COMPANY

DO 085530
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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25383

PAGE: 2

PRODUCT NAME: VECTOR (R) 8550-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

4. REACTIVITY DATA: (CONTINUED)

AGENTS:

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND ORGANIC COMPOUNDS UPON COMBUSTION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS: SWEEP UP OR PICK UP WITH AN INDUSTRIAL VACUUM CLEANER. PUT INTO CONTAINER FOR DISPOSAL.

DISPOSAL METHOD: RECLAIM, BURN IN A CHEMICAL INCINERATOR, OR BURY IN AN APPROVED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

6. HEALTH HAZARD DATA:

EYE: SOLID OR DUST MAY CAUSE IRRITATION OR CORNEAL INJURY DUE TO MECHANICAL ACTION.

SKIN CONTACT: ESSENTIALLY NONIRRITATING TO SKIN. MECHANICAL INJURY ONLY.

SKIN ABSORPTION: SKIN ABSORPTION IS UNLIKELY DUE TO PHYSICAL PROPERTIES.

INGESTION: SINGLE DOSE ORAL LDCO HAS NOT BEEN DETERMINED. SINGLE DOSE ORAL TOXICITY IS BELIEVED TO BE VERY LOW. CONSIDERED TO BE PHYSIOLOGICALLY INERT. NO HAZARDS ANTICIPATED FROM SWALLOWING SMALL AMOUNTS INCIDENTAL TO NORMAL HANDLING OPERATIONS.

INHALATION: DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT.

SYSTEMIC AND OTHER EFFECTS: ADDITIVES ARE ENCAPSULATED IN THE PRODUCT AND ARE NOT EXPECTED TO BE RELEASED UNDER NORMAL PROCESSING CONDITIONS.

(CONTINUED ON PAGE 3)

(R) INDICATES A TRADEMARK OF THE DOW CHEMICAL COMPANY

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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25383

PAGE: 3

PRODUCT NAME: VECTOR (R) 8550-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

7. FIRST AID:

EYES: IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 5 MINUTES.
MECHANICAL EFFECTS ONLY.

SKIN: WASH OFF IN FLOWING WATER OR SHOWER.

INGESTION: NO ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF
EXPOSURE INCIDENTAL TO PROPER INDUSTRIAL HANDLING.

INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A
PHYSICIAN.

8. HANDLING PRECAUTIONS

EXPOSURE GUIDELINE(S): NONE ESTABLISHED FOR COPOLYMER.

VENTILATION: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR
MOST CONDITIONS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR
SOME OPERATIONS.

RESPIRATORY PROTECTION: FOR MOST CONDITIONS, NO RESPIRATORY
PROTECTION SHOULD BE NEEDED; HOWEVER, IF HANDLING AT ELEVATED
TEMPERATURES WITHOUT SUFFICIENT VENTILATION, USE AN APPROVED
AIR-PURIFYING RESPIRATOR. IN DUSTY ATMOSPHERES USE AN
APPROVED DUST RESPIRATOR.

SKIN PROTECTION: NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING
CLOTHING SHOULD BE NEEDED.

EYE PROTECTION: USE SAFETY GLASSES. IF THERE IS A POTENTIAL FOR
EXPOSURE TO PARTICLES WHICH COULD CAUSE MECHANICAL INJURY TO
THE EYE, WEAR CHEMICAL GOGGLES.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: PRODUCT
CAN ACCUMULATE ELECTROSTATIC CHARGES WHEN RUBBED, CHAFED OR
ABRADED. STATIC DISCHARGE IN THE PRESENCE OF VOLATILE OR
FLAMMABLE MIXTURES PRESENTS A POTENTIAL FIRE OR EXPLOSION
HAZARD. EQUIPMENT SHOULD PROVIDE A MEANS FOR DISSIPATING ANY
CHARGES THAT MAY DEVELOP.

(CONTINUED ON PAGE 4)

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DO 085532
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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25383

PAGE: 4

PRODUCT NAME: VECTOR (R) 8550-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

9. ADDITIONAL INFORMATION: (CONTINUED)

COMPOUNDING OF PRODUCT IN HIGH SHEAR EQUIPMENT CAN CAUSE THE TEMPERATURE TO RISE. DO NOT ALLOW THE TEMPERATURE TO EXCEED 450F. MAINTAIN A FIRE WATCH IF 450F IS REACHED.

MSDS STATUS. REVISED SECTION 2 (APPEARANCE)

FOR INFORMATION REGARDING STATE/PROVINCIAL AND FEDERAL REGULATIONS SEE THE REGULATORY INFORMATION SECTION.

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M A T E R I A L S A F E T Y D A T A S H E E T

DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25128

PAGE: 1

PRODUCT NAME: VECTOR (R) 6241-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

1. INGREDIENTS: (% W/W, UNLESS OTHERWISE NOTED)

STYRENE-BUTADIENE BLOCK COPOLYMER	CAS# 009003-55-8	>98%
ADDITIVES		<1%

THIS DOCUMENT IS PREPARED PURSUANT TO THE OSHA HAZARD COMMUNICATION STANDARD (29 CFR 1910.1200). IN ADDITION, OTHER SUBSTANCES NOT 'HAZARDOUS' PER THIS OSHA STANDARD MAY BE LISTED. WHERE PROPRIETARY INGREDIENT SHOWS, THE IDENTITY MAY BE MADE AVAILABLE AS PROVIDED IN THIS STANDARD.

2. PHYSICAL DATA:

BOILING POINT: NOT APPLICABLE
VAP. PRESS: NEGLIGIBLE
VAP. DENSITY: NOT APPLICABLE
SOL. IN WATER: NEGLIGIBLE
SP. GRAVITY: 0.72
APPEARANCE: NATURAL COLOR PELLET OR CRUMBS
ODOR: NONE

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: NOT APPLICABLE
METHOD USED: NOT APPLICABLE

FLAMMABLE LIMITS
LFL: NOT APPLICABLE
UFL: NOT APPLICABLE

EXTINGUISHING MEDIA: WATER FOG, FOAM, CO2, AND DRY CHEMICAL.

FIRE AND EXPLOSION HAZARDS: AVOID INHALATION OF SMOKE.

FIRE-FIGHTING EQUIPMENT: WEAR POSITIVE PRESSURE, SELF-CONTAINED BREATHING APPARATUS.

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) DO NOT STORE ABOVE 200 F.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) STRONG OXIDIZING

(CONTINUED ON PAGE 2)

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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25128

PAGE: R-1

PRODUCT NAME: VECTOR (R) 6241-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

REGULATORY INFORMATION (NOT MEANT TO BE ALL-INCLUSIVE-- SELECTED REGULATIONS REPRESENTED.)

NOTICE: THE INFORMATION HEREIN IS PRESENTED IN GOOD FAITH AND BELIEVED TO BE ACCURATE AS OF THE EFFECTIVE DATE SHOWN ABOVE. HOWEVER, NO WARRANTY, EXPRESS OR IMPLIED, IS GIVEN. REGULATORY REQUIREMENTS ARE SUBJECT TO CHANGE AND MAY DIFFER FROM ONE LOCATION TO ANOTHER. IT IS THE BUYER'S RESPONSIBILITY TO ENSURE THAT ITS ACTIVITIES COMPLY WITH FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS. THE FOLLOWING SPECIFIC INFORMATION IS MADE FOR THE PURPOSE OF COMPLYING WITH NUMEROUS FEDERAL, STATE OR PROVINCIAL, AND LOCAL LAWS AND REGULATIONS. SEE MSD SHEET FOR HEALTH AND SAFETY INFORMATION.

U.S. REGULATIONS

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SARA HAZARD CATEGORY THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1980 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:

NOT TO HAVE MET ANY HAZARD CATEGORY

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THE INFORMATION HEREIN IS GIVEN IN GOOD FAITH, BUT NO WARRANTY, EXPRESS OR IMPLIED, IS MADE. CONSULT THE DOW CHEMICAL COMPANY FOR FURTHER INFORMATION.

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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 317-636-4400

PRODUCT CODE: 25128

PAGE: 2

PRODUCT NAME: VECTOR (R) 6241-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92 DATE PRINTED: 05/07/92

MSD: 003544

4. REACTIVITY DATA: (CONTINUED)

AGENTS.

HAZARDOUS DECOMPOSITION PRODUCTS: CARBON MONOXIDE AND ORGANIC COMPOUNDS UPON COMBUSTION.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS: SWEEP UP OR PICK UP WITH AN INDUSTRIAL VACUUM CLEANER. PUT INTO CONTAINER FOR DISPOSAL.

DISPOSAL METHOD: RECLAIM, BURN IN A CHEMICAL INCINERATOR, OR BURY IN AN APPROVED LANDFILL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.

6. HEALTH HAZARD DATA:

EYE: SOLID OR DUST MAY CAUSE IRRITATION OR CORNEAL INJURY DUE TO MECHANICAL ACTION.

SKIN CONTACT: ESSENTIALLY NONIRRITATING TO SKIN. MECHANICAL INJURY ONLY.

SKIN ABSORPTION: SKIN ABSORPTION IS UNLIKELY DUE TO PHYSICAL PROPERTIES.

INGESTION: SINGLE DOSE ORAL L₅₀ HAS NOT BEEN DETERMINED. SINGLE DOSE ORAL TOXICITY IS BELIEVED TO BE VERY LOW. CONSIDERED TO BE PHYSIOLOGICALLY INERT. NO HAZARDS ANTICIPATED FROM SWALLOWING SMALL AMOUNTS INCIDENTAL TO NORMAL HANDLING OPERATIONS.

INHALATION: DUST MAY CAUSE IRRITATION TO UPPER RESPIRATORY TRACT.

SYSTEMIC AND OTHER EFFECTS: ADDITIVES ARE ENCAPSULATED IN THE PRODUCT AND ARE NOT EXPECTED TO BE RELEASED UNDER NORMAL PROCESSING CONDITIONS.

(CONTINUED ON PAGE 3)

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DO 085536
CONFIDENTIAL

DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25128

PAGE: 3

PRODUCT NAME: VECTOR (R) 6241-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

7. FIRST AID.

EYES: IRRIGATE IMMEDIATELY WITH WATER FOR AT LEAST 5 MINUTES.
MECHANICAL EFFECTS ONLY.

SKIN: WASH OFF IN FLOWING WATER OR SHOWER.

INGESTION: NO ADVERSE EFFECTS ANTICIPATED BY THIS ROUTE OF
EXPOSURE INCIDENTAL TO PROPER INDUSTRIAL HANDLING.

INHALATION: REMOVE TO FRESH AIR IF EFFECTS OCCUR. CONSULT A
PHYSICIAN.

8. HANDLING PRECAUTIONS

EXPOSURE GUIDELINE(S): NONE ESTABLISHED FOR COPOLYMER.

VENTILATION: GOOD GENERAL VENTILATION SHOULD BE SUFFICIENT FOR
MOST CONDITIONS. LOCAL EXHAUST VENTILATION MAY BE NECESSARY FOR
SOME OPERATIONS.

RESPIRATORY PROTECTION: FOR MOST CONDITIONS, NO RESPIRATORY
PROTECTION SHOULD BE NEEDED; HOWEVER, IF HANDLING AT ELEVATED
TEMPERATURES WITHOUT SUFFICIENT VENTILATION, USE AN APPROVED
AIR-PURIFYING RESPIRATOR. IN DUSTY ATMOSPHERES, USE AN
APPROVED DUST RESPIRATOR.

SKIN PROTECTION: NO PRECAUTIONS OTHER THAN CLEAN BODY-COVERING
CLOTHING SHOULD BE NEEDED.

EYE PROTECTION: USE SAFETY GLASSES. IF THERE IS A POTENTIAL FOR
EXPOSURE TO PARTICLES WHICH COULD CAUSE MECHANICAL INJURY TO
THE EYE, WEAR CHEMICAL GOGGLES.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: PRODUCT
CAN ACCUMULATE ELECTROSTATIC CHARGES WHEN RUBBED, CHAFED OR
ABRADED. STATIC DISCHARGE IN THE PRESENCE OF VOLATILE OR
FLAMMABLE MIXTURES PRESENTS A POTENTIAL FIRE OR EXPLOSION
HAZARD. EQUIPMENT SHOULD PROVIDE A MEANS FOR DISSIPATING ANY
CHARGES THAT MAY DEVELOP.

(CONTINUED ON PAGE 4)

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DOW CHEMICAL U.S.A.* MIDLAND, MI 48674 EMERGENCY PHONE: 517-636-4400

PRODUCT CODE: 25128

PAGE: 4

PRODUCT NAME: VECTOR (R) 6241-D STYRENIC BLOCK COPOLYMER

EFFECTIVE DATE: 03/02/92

DATE PRINTED: 05/07/92

MSD: 003544

9. ADDITIONAL INFORMATION. (CONTINUED)

COMPOUNDING OF PRODUCT IN HIGH SHEAR EQUIPMENT CAN CAUSE THE TEMPERATURE TO RISE. DO NOT ALLOW THE TEMPERATURE TO EXCEED 450F. MAINTAIN A FIRE WATCH IF 450F IS REACHED.

MSDS STATUS: REVISED SECTION 2 (APPEARANCE)

FOR INFORMATION REGARDING STATE/PROVINCIAL AND FEDERAL REGULATIONS SEE THE REGULATORY INFORMATION SECTION.

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DO 085538
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MATERIAL SAFETY DATA SHEET**Dexco Polymers* Houston, TX 77079 Emergency Phone: 517-636-4400****Grade Code: 25441100****Product Code: 24828****Page: 1****Product Name: VECTOR® 4411-D STYRENIC BLOCK COPOLYMER****Effective Date: 8/16/90****MSDS: 002756****1. INGREDIENTS: (% w/w, unless otherwise noted)**

Styrene-Isoprene block copolymer CAS# 025038-32-8 >98%
Additives <1%

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200). In addition, other substances not "Hazardous" per this OSHA Standard may be listed. Where proprietary ingredient shows, the identity may be made available as provided in this standard.

2. PHYSICAL DATA:

BOILING POINT: Not applicable
VAP. PRESS.: Negligible
VAP. DENSITY: Not applicable
SOL. IN WATER: Negligible
SP. GRAVITY: 0.92
APPEARANCE: Natural color pellet
ODOR: None

3. FIRE AND EXPLOSION HAZARD DATA:

FLASH POINT: Not applicable
METHOD USED: Not applicable

FLAMMABLE LIMITS

LFL: Not applicable
UFL: Not applicable

EXTINGUISHING MEDIA: Water fog, foam, CO2, and dry chemical.

FIRE AND EXPLOSION HAZARDS: Avoid inhalation of smoke.

FIRE-FIGHTING EQUIPMENT: Wear positive pressure, self contained breathing apparatus.

(Continued on Page 2)

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MATERIAL SAFETY DATA SHEET

Dexco Polymers* Houston, TX 77079 Emergency Phone: 517-636-4400
Grade Code: 25441100 Product Code: 24828 Page: 2

Product Name: VECTOR® 4411-D STYRENIC BLOCK COPOLYMER

Effective Date: 8/16/90

MSDS: 002756

4. REACTIVITY DATA:

STABILITY: (CONDITIONS TO AVOID) Do not store above 200° F.

INCOMPATIBILITY: (SPECIFIC MATERIALS TO AVOID) Strong oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Carbon monoxide and organic compounds upon combustion.

HAZARDOUS POLYMERIZATION: Will not occur.

5. ENVIRONMENTAL AND DISPOSAL INFORMATION:

ACTION TO TAKE FOR SPILLS: Sweep up or pick up with an industrial vacuum cleaner. Put into container for disposal.

DISPOSAL METHOD: Reclaim, burn in a chemical incinerator, or bury in an approved landfill in accordance with federal, state and local regulations.

6. HEALTH HAZARD DATA:

EYE: Solid or dust may cause irritation or corneal injury due to mechanical action.

SKIN CONTACT: Essentially non-irritating to skin. Mechanical injury only.

SKIN ABSORPTION: Skin absorption is unlikely due to physical properties.

INGESTION: Single dose oral LD50 has not been determined. Single dose oral toxicity is believed to be very low. No hazards anticipated from swallowing small amounts incidental to normal handling operations.

(Continued on page 3)

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MATERIAL SAFETY DATA SHEET

Dexco Polymers* Houston, TX 77079 Emergency Phone: 517-636-4400

Grade Code: 25441100

Product Code: 24828

Page: 3

Product Name: VECTOR® 4411-D STYRENIC BLOCK COPOLYMER

Effective Date: 8/16/90

MSDS: 002756

6. HEALTH HAZARD DATA: (Continued)

INHALATION: Dust may cause irritation to upper respiratory tract.

SYSTEMIC AND OTHER EFFECTS: Additives are encapsulated in the product and are not expected to be released under normal processing conditions.

7. FIRST AID

EYES: Irrigate immediately with water for at least 5 minutes. Mechanical effects only.

SKIN: Wash off in flowing water or shower.

INGESTION: No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

INHALATION: Remove to fresh air if effects occur. Consult a physician.

8. HANDLING PRECAUTIONS:

EXPOSURE GUIDELINE (S): None established for copolymer.

VENTILATION: Good general ventilation should be sufficient for most conditions. Local exhaust ventilation may be necessary for some operations.

RESPIRATORY PROTECTION: For most conditions, no respiratory protection should be needed; however, if handling at elevated temperatures without sufficient ventilation, use an approved air-purifying respirator. In dusty atmospheres, use an approved dust respirator.

SKIN PROTECTION: No precautions other than clean body-covering clothing should be needed.

(Continued on page 4)

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MATERIAL SAFETY DATA SHEET

Dexco Polymers* Houston, TX 77079 Emergency Phone: 517-636-4400
Grade Code: 25441100 Product Code: 24828 Page: 4

Product Name: VECTOR® 4411-D STYRENIC BLOCK COPOLYMER

Effective Date: 8/16/90

MSDS: 002756

8. HANDLING PRECAUTIONS: (Continued)

EYE PROTECTION: Use safety glasses. If there is a potential for exposure to particles which could cause mechanical injury to the eye, wear chemical goggles.

9. ADDITIONAL INFORMATION:

SPECIAL PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Product can accumulate electrostatic charges when rubbed, chafed or abraded. Static discharge in the presence of volatile or flammable mixtures presents a potential fire or explosion hazard. Equipment should provide a means for dissipating any charges that may develop.

Compounding of product in high shear equipment can cause the temperature to rise. **DO NOT ALLOW THE TEMPERATURE TO EXCEED 450° F. MAINTAIN A FIRE WATCH IF 450° F IS REACHED.**

MSDS STATUS: Revised section 9 (Special Precautions).

For information regarding state/provincial and federal regulations, see the Regulatory Information Section.

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MATERIAL SAFETY DATA SHEET

Dexco Polymers* Houston, TX 77079 Emergency Phone: 517-636-4400
Grade Code: 25441100 Product Code: 24828 Page: R-1

Product Name: VECTOR® 4411-D STYRENIC BLOCK COPOLYMER

Effective Date: 8/16/90

MSDS: 002756

REGULATION INFORMATION: (Not meant to be all-inclusive--selected regulations represented.)

NOTICE: The information herein is presented in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given. Regulatory requirements are subject to change and may differ from one location to another; it is the buyer's responsibility to assure that its activities comply with federal, state or provincial, and local laws. The following specific information is made for the purpose of complying with numerous federal, state or provincial, and local laws and regulations. See MSD Sheet for health and safety information.

U. S. REGULATIONS

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA "Hazard Categories" promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

Not to have met any hazard category.

The Information Herein Is Given In Good Faith, But No Warranty, Express or Implied, Is Made. Consult Dexco Polymers For Further Information.

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