
SECTION V - HEALTH HAZARD DATA

EFFECTS OF OVEREXPOSURE:

ACUTE (Short Term): SKIN: Irritant.

CHRONIC (Long Term): May cause skin sensitization.

MEDICAL CONDITIONS PRONE TO AGGRAVATION BY EXPOSURE: Chronic diseases of the skin.

PRIMARY ROUTES OF ENTRY: ☒ Dermal ☒ Inhalation ☐ Ingestion

EMERGENCY AND FIRST AID PROCEDURES: SPLASH (EYES): Flush eyes immediately with large amounts of water for at least 15 minutes. Take to a physician for medical treatment. SPLASH (SKIN): Wash affected skin areas with soap and water. Remove contaminated clothing. Consult a physician if irritation persists. INGESTION: Drink one or two glasses of water to dilute. Do not induce vomiting. Consult physician or poison control center immediately. Treat symptomatically. INHALATION: Remove person to fresh air.

SECTION VI - REACTIVITY DATA

STABILITY: ☐ Unstable ☒ Stable HAZARDOUS POLYMERIZATION: ☐ May Occur ☒ Will Not Occur

CONDITIONS TO AVOID: High temperatures, sparks, and open flame.

INCOMPATIBILITY (Materials to Avoid): Strong oxidizing agents.

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Remove all sources of ignition (flame, hot surfaces, and electrical, static or frictional sparks). Use self-contained breathing equipment. Ventilate area. Contain and remove with inert absorbent material and non-sparking tools. Avoid contact.

WASTE DISPOSAL METHOD: Disposal should be done in accordance with Federal (40CFR Part 261), State and Local regulations. Before attempting clean-up, refer to hazard caution information in other sections of the MSDS form. Use licensed hazardous waste disposal concern.

SECTION VIII - SAFE HANDLING AND USE PROCEDURES

RESPIRATORY PROTECTION: Use approved chemical/mechanical filters designed to remove a combination of particulates and organic vapor in open and restricted ventilation areas.

VENTILATION: All application areas should be ventilated in accordance with OSHA regulation 29CFR Part 1910.94. Sufficient ventilation, in pattern and volume, should be provided to keep the air contaminant concentration below applicable exposure limits.

PROTECTIVE GLOVES: Use neoprene or rubber gloves to prevent skin contact.

EYE PROTECTION: Use safety glasses with side shields as minimum protection.

OTHER PROTECTIVE EQUIPMENT: Use protective cream if skin contact is likely. Use disposable or impervious clothing if work clothing contamination is likely.

HYGIENIC PRACTICES: Wash hands before eating, smoking or using the wash room. Do not smoke in any chemical handling or storage area. Food or beverages should not be consumed anywhere this product is handled or stored.

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Do not store or use near heat or open flame. Refer to OSHA 29CFR Part 1910.106 for specific storage requirements.

OTHER PRECAUTIONS: Empty drums should not be reused. Do not get in eyes. Avoid skin contact. Do not handle until the manufacturer's safety precautions have been read and understood.

DO 086420
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MATERIAL SAFETY DATA SHEET

Date: 7/2/87

SECTION 1			
MANUFACTURER'S NAME: BURTON RUBBER PROCESSING, INC.		EMERGENCY TELEPHONE NUMBER 216-834-4644	
ADDRESS (Number, Street, City, State and Zip Code) 14330 Kinsman Road, Burton, Ohio 44021			
CHEMICAL NAME AND SYNONYMS CPE Compound		TRADE NAME AND SYNONYMS 87016-7B	
CHEMICAL FAMILY Polymeric		FORMULA Proprietary - generated by Dow Chemical	

SECTION II - HAZARDOUS INGREDIENTS	TLV (Units)
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.	
N-Butyl-4,4'-bis-(t-butylperoxy)valerate, irritant, CAS 995-33-5	NE

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	NA	SPECIFIC GRAVITY (H ₂ O=1)	1.37
VAPOR PRESSURE (mm Hg.)	NA	PERCENT, VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (1)	NA
SOLUBILITY IN WATER	Nil		
APPEARANCE AND ODOR	Black,	Rubbery solid; characteristic odor	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method Used) NA	FLAMMABLE LIMITS NA	LeI	UeI
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 Combustion releases HCl fumes (TLV - 5ppm).			

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SECTION V – REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None
INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents			
HAZARDOUS DECOMPOSITION PRODUCTS CO, CO ₂ , HCl			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VI – HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE NA	ENTRY ROUTE: Inhale <u>X</u> Ingest <u> </u> Skin <u>X</u> Eye <u> </u>
EFFECTS OF OVEREXPOSURE Containment in a rubber binder greatly reduces risk of contact with hazardous materials. May liberate irritant vapors at processing temperatures; avoid vapor, eye, and skin contact.	
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.	

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 (Specify type) Organic vapor respirator recommended if ventilation is inadequate.		
VENTILATION	LOCAL EXHAUST Yes	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES Recommended (Cloth)	EYE PROTECTION Recommended	
OTHER PROTECTIVE EQUIPMENT		

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.	

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As the conditions or methods of use are beyond our control, we do not assume any responsibility and expressly disclaim any liability for any use of this material. Information contained herein is believed to be true and accurate but all statements or suggestions are made without warranty, expressed or implied, regarding accuracy of the information, the hazards connected with the use of the material or the results to be obtained from the use thereof. Compliance with applicable federal, state and local laws and regulations remains the responsibility of the user.

SIGNATURE *[Signature]*

TITLE

Chemist

MATERIAL SAFETY DATA SHEET

Date: 7/2/87

SECTION 1			
MANUFACTURER'S NAME: BURTON RUBBER PROCESSING, INC.		EMERGENCY TELEPHONE NUMBER 216-834-4644	
ADDRESS (Number, Street, City, State and Zip Code) 14330 Kinsman Road, Burton, Ohio 44021			
CHEMICAL NAME AND SYNONYMS CPE Compound		TRADE NAME AND SYNONYMS 86017-35G	
CHEMICAL FAMILY Polymeric		FORMULA Proprietary - generated by Dow Chemical	

SECTION II - HAZARDOUS INGREDIENTS	TLV (Units)
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 Trimellitate, toxic, CAS 2694-54-4	50ppm
Antimony Oxide, cancer suspect, CAS 1309-64-4 (NTP)	.50mg/m ³ Sb
Liquid Chlorinated Paraffin, hepatoxin, CAS 61788-76-9	NE
Dicumyl Peroxide, irritant, CAS 80-43-3	10mg/m ³

SECTION III - PHYSICAL DATA			
BOILING POINT (°F.)	NA	SPECIFIC GRAVITY (H ₂ O=1)	1.44
VAPOR PRESSURE (mm Hg.)	NA	PERCENT, VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (_____=1)	NA
SOLUBILITY IN WATER	Nil		
APPEARANCE AND ODOR	Black,	Rubbery solid; characteristic odor	

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method Used) NA	FLAMMABLE LIMITS NA	Lel	Uel
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 Combustion releases HCl fumes (TLV - 5ppm).			

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SECTION V – REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None
INCOMPATIBILITY (Materials to avoid) Strong oxidizing agents			
HAZARDOUS DECOMPOSITION PRODUCTS CO, CO ₂ , HCl			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None

SECTION VI – HEALTH HAZARD DATA	
THRESHOLD LIMIT VALUE NA	ENTRY ROUTE: Inhale <u>X</u> Ingest _____ Skin <u>X</u> Eye _____
EFFECTS OF OVEREXPOSURE Containment in a rubber binder greatly reduces risk of contact with hazardous materials. Contains cancer suspect/liberates irritant vapors; refer to Sect. VIII. Prolonged exposure to Antimony Oxide dust can result in liver tumors. Contains a toxic material: Prolonged exposure to liquid chlorinated paraffins may result in liver disorders. Prolonged exposure to Triallyl Trimellitate may be fatal if inhaled, ingested, or absorbed through the skin.	
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.	

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 (Specify type) Organic vapor respirator recommended if ventilation is inadequate. (NIOSH)		
VENTILATION	LOCAL EXHAUST Yes	SPECIAL
	MECHANICAL (General)	OTHER
PROTECTIVE GLOVES Recommended (Impervious)		EYE PROTECTION Recommended
OTHER PROTECTIVE EQUIPMENT		

SECTION IX – SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING Store below 70 °F away from direct sources of heat and sunlight.	
OTHER PRECAUTIONS Wash thoroughly after handling.	

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SIGNATURE *Robert L. Donker*

TITLE

Chemist

MATERIAL SAFETY DATA SHEET

DATE: 12-19-85

SECTION 1	
MANUFACTURER'S NAME MACH-1 COMPOUNDING Division of Burton Rubber	EMERGENCY TELEPHONE NO. 216-467-8108
ADDRESS (Number, Street, City, State and ZIP Code) 775 E. Highland Road, Macedonia, Ohio 44056	
CHEMICAL NAME AND SYNONYMS Polyethylene	TRADE NAME AND SYNONYMS CPE 24-2
CHEMICAL FAMILY Polymeric	FORMULA Proprietary

SECTION II - HAZARDOUS INGREDIENTS					
PAINTS, PRESERVATIVES & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS	None		BASE METAL	None	
CATALYST	None		ALLOYS	None	
VEHICLE	None		METALLIC COATINGS	None	
SOLVENTS	None		FILLER METAL		
ADDITIVES	None		PLUS COATING OR CORE FLUX	None	
OTHERS			OTHERS		
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES					
Dibasic lead phthalate - Toxic				<	4.0
Antimony Trioxide - Cancer suspect				<	6.0

SECTION III - PHYSICAL DATA			
BOILING POINT (°F)	NA	SPECIFIC GRAVITY (H ₂ O=1)	1.28
VAPOR PRESSURE (mm Hg.)	NA	PERCENT VOLATILE BY VOLUME (%)	NA
VAPOR DENSITY (AIR=1)	NA	EVAPORATION RATE (_____ =1)	NA
SOLUBILITY IN WATER	Nil		
APPEARANCE AND ODOR	Black pellet		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method Used) NA	FLAMMABLE LIMITS NA	Lel	Uel
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 Combustion releases HCl fumes (TLV-5ppm).			

SIGNATURE Lonnie S. Porter

Lonnie S. Porter

(CONTINUED ON REVERSE SIDE)

TITLE Technical Manager

DO 086425
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SECTION V - HEALTH HAZARD DATA			
THRESHOLD LIMIT VALUE NA	ENTRY ROUTE: Inhale _____ Ingest _____ Skin _____ Eye _____		
EFFECTS OF OVEREXPOSURE			
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.			

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None.
INCOMPATIBILITY (Materials to avoid): Strong oxidizing agents			
HAZARDOUS DECOMPOSITION PRODUCTS CO, CO ₂ , HCl			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

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 (Specify type): Organic vapor respirator recommended if ventilation is inadequate.		
VENTILATION	LOCAL EXHAUST	Yes
	MECHANICAL (General)	
PROTECTIVE GLOVES Recommended		EYE PROTECTION Recommended
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING	
CPE 24-2 will emit vapors during processing with other materials. Exposure may produce acute health effects in some sensitive individuals. Good ventilation is needed to avoid breathing vapors.	

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DATE: 08-12-86

SECTION IV - FIRE AND EXPLOSION HAZARD DATA			
FLASH POINT (Method Used)	FLAMMABLE LIMITS	LeI	UeI
NA	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			
Combustion releases HCl fumes (TLV-5ppm).			

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SIGNATURE Lonnie S. Porter TITLE Technical Manager (CONTINUED ON PAGE 2)

(CONTINUED ON REVERSE SIDE)

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE ENTRY ROUTE: Inhale ___ Ingest ___ Skin ___ Eye ___

NA

EFFECTS OF OVEREXPOSURE

Contaminant in the polymer matrix greatly reduces risk of contact with hazardous materials.

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.

SECTION VI - REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None.
INCOMPATIBILITY (MATERIALS TO AVOID)			
Strong oxidizing agents			
HAZARDOUS DECOMPOSITION PRODUCTS			
CO, CO ₂ , HCl			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

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 (Specify type)

Organic vapor respirator recommended if ventilation is inadequate.

VENTILATION	LOCAL EXHAUST	Yes	SPECIAL
	MECHANICAL (General)		OTHER
PROTECTIVE GLOVES		EYE PROTECTION	
Recommended		Recommended	
OTHER PROTECTIVE EQUIPMENT			

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

546-85028-20-1 will emit vapors during processing. Exposure may produce acute health effects in some sensitive individuals. Good ventilation is needed to avoid breathing vapors.

Wash thoroughly after handling.

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DATE: 08-12-86

RE Lonnie S. Porter TITLE Technical Manager (CONTINUED ON REVERSE SIDE)

DO 086429
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THRESHOLD LIMIT VALUE NA	ENTRY ROUTE: Inhaled ☐ Ingest ☐ Skin ☐ Eye ☐
EFFECTS OF OVEREXPOSURE Contaminant in the polymer matrix greatly reduces risk of contact with hazardous materials.	
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.	

SECTION VI - REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	None.
INCOMPATIBILITY (SUBSTRATES TO AVOID) Strong oxidizing agents			
HAZARDOUS DECOMPOSITION PRODUCTS CO, CO ₂ , HCl			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	None.

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 (Specify type): Organic vapor respirator recommended if ventilation is inadequate.		
VENTILATION	LOCAL EXHAUST	Yes
	MECHANICAL (General)	
PROTECTIVE GLOVES Recommended		EYE PROTECTION Recommended
OTHER PROTECTIVE EQUIPMENT		

SECTION IX - SPECIAL PRECAUTIONS	
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING 546-85028-20-1 will emit vapors during processing. Exposure may produce acute health effects in some sensitive individuals. Good ventilation is needed to avoid breathing vapors.	
Wash thoroughly after handling.	

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Material Safety Data Sheet

Uniroyal Chemical Company, Inc.
World Headquarters
Middlebury, CT 06749

UNIROYAL Emergency Phone: (203) 723-3670
CHEMTREC Transportation Emergency Phone: 1-800-424-9300
SAFETY DATA Information (203) 573-3303

MSDS No. C212005

Date Issued: 8/28/86

IDENTIFICATION

Trade Name: NAUGARD® SUPER Q

CAS Number: 26780-96-1

Chemical Name: Polymerized 1,2-dihydro-2,2,4-tri-methylquinoline

Chemical Family: Quinoline

SPECIAL REGULATORY HAZARDS

<u>Ingredient</u>	<u>CAS No.</u>	<u>Exposure Limit</u>	<u>OSHA (1910.1200)</u>	<u>EEC*</u>
Product	26780-96-1	ND	Not hazardous	Not hazardous

Hazard assessment based on available data.

Transportation: NA

PHYSICAL DATA

Appearance and Odor: Brown powder or flakes; characteristic odor

Solubility: Insoluble in water. Soluble in acetone
benzene, ethanol & chloroform

Specific Gravity (H₂O = 1): 1.03 - 1.09

Melting Point: NA; Softening Pt. 115-130°C

Vapor Pressure @ 20°C: NA

Boiling Point: NA

Vapor Density (Air = 1): NA

Other Data: NA

Volatility @ 70°F: Low

FIRE AND EXPLOSION HAZARD DATA

Flash Point: 429°F (221°C) COC

Autoignition Temp: ND

Extinguishing Media: Water spray, dry chemical

Flammable Limits: ND

Special Fire Fighting Procedures: Protect against inhalation of combustion products.

Unusual Hazards: May form explosive dust-air mixtures.

REACTIVITY DATA

Stability: Stable at ambient temperatures and pressures.

Incompatibility: Strong oxidizing agents.

Decomposition Products: Oxides of carbon and nitrogen under burning conditions.

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NA = Not Applicable

ND = Not Determined

*European Economic Community

Uniroyal makes no representation or warranty with respect to the information in this Material Safety Data Sheet. The information is however, as of this date provided, true and accurate to the best of Uniroyal's knowledge. This list of information is not intended to be all inclusive. Actual conditions of use and handling may require considerations of information other than, or in addition to, that which is provided herein.

SPECIAL PROTECTION INFORMATION

Engineering Controls: Sufficient ventilation to minimize dust exposure. Protect closed handling systems against possible dust explosions. Avoid dust accumulation on building or equipment surfaces.

Personal Protection Equipment: Avoid all personal contact. Observe good personal hygiene. Impervious gloves and goggles should be worn when handling. In the absence of adequate ventilation, use NIOSH-certified dust cartridge respirator.

STORAGE, SPILLS AND DISPOSAL INFORMATION

Storage: Store away from sources of direct heat in a dry area. Keep containers closed when not in use.

Spills: Sweep or vacuum up. Shovel into secure containers for proper disposal. Avoid creating dust. Use personal protective equipment as outlined above.

Disposal: In accordance with any applicable local, state, or federal regulation regarding organic waste.

Environmental Information: Environmental effects have not been determined.

HEALTH RELATED DATA

Specific Hazard(s): Contact with eyes may cause irritation.

Primary Route(s) of Entry: Powder, inhalation or skin absorption.

First Aid Procedures: **Eye contact:** Flush with water for 15 minutes. Get medical attention.

Skin contact: Wash thoroughly with soap and water

Inhalation: Remove to fresh air.

Toxicology Information: **Oral toxicity:** LD50 (rats) - 4.6 g/kg

Dermal toxicity: LD50 (rabbits) - 20 g/kg

Irritation: eye (rabbits) - slight
skin (rabbits) - negative

Chronic: The administration of polymerized 1,2-dihydro-2,2,4-trimethylquinoline by three routes, 0.5% in the diet of rats, skin painting in mice and intratracheal injection in hamsters, did not produce an increased tumor incidence.

DO 086432
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U. S. DEPARTMENT OF LABOR
Occupational Safety & Health Administration
MATERIAL SAFETY DATA SHEET

SECTION I							
MANUFACTURER'S NAME E.I. du Pont de Nemours & Co., Inc.		EMERGENCY TELEPHONE NO. 302-774-2421					
ADDRESS (Number, Street, City, State, and ZIP Code) Polymer Products Dept., Elastomers Division, Wilmington, DE 19898							
CHEMICAL NAME AND SYNONYMS Nickel dibutyldithiocarbamate		TRADE NAME AND SYNONYMS NBC					
CHEMICAL FAMILY Rubber accelerator		FORMULA					
SECTION II PHYSICAL DATA							
BOILING POINT (°F.)	not applicable	SPECIFIC GRAVITY (H ₂ O = 1)	1.26				
VAPOR PRESSURE (mm Hg.)	not applicable	PERCENT VOLATILE BY VOLUME (%)	not applicable				
VAPOR DENSITY (AIR = 1)	not applicable	EVAPORATION RATE (_____ = 1)	not applicable				
SOLUBILITY IN WATER	insoluble	Melting Point	86°C (187°F)				
APPEARANCE AND ODOR Dark green flakes. Mild odor.							
SECTION III FIRE AND EXPLOSION HAZARD DATA							
FLASH POINT (Method used) Above 263°C (505°F)—open cup method		FLAMMABLE LIMITS <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 2px;">Lel</td> <td style="width: 50%; padding: 2px;">Uel</td> </tr> <tr> <td style="height: 20px;"></td> <td style="height: 20px;"></td> </tr> </table>		Lel	Uel		
Lel	Uel						
EXTINGUISHING MEDIA Use standard fire extinguishers							
SPECIAL FIRE FIGHTING PROCEDURES None							
UNUSUAL FIRE AND EXPLOSION HAZARDS None							
SECTION IV HEALTH HAZARD DATA							
THRESHOLD LIMIT VALUE None established.							
EFFECTS OF OVEREXPOSURE Approx. lethal dose (ALD) is greater than 17,000 mg/kg body weight for male rat. May cause skin irritation although not considered a skin sensitizer.							
EMERGENCY AND FIRST AID PROCEDURES Wash skin immediately. Flush eyes in running stream of water. Call a physician.							

DO 086433
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NOTICE FROM DU PONT

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

SECTION V REACTIVITY DATA			
STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (<i>Materials to avoid</i>)			
HAZARDOUS DECOMPOSITION PRODUCTS			
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR	X	
SECTION VI SPILL OR LEAK PROCEDURES			
STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED			
Clean up. Avoid contact with skin.			
WASTE DISPOSAL METHOD			
Dispose in a secure landfill, according to federal, state and local regulations.			
SECTION VII SPECIAL PROTECTION INFORMATION			
RESPIRATORY PROTECTION (<i>Specify type</i>)			
VENTILATION	LOCAL EXHAUST Yes		SPECIAL Use with adequate ventilation. OTHER
	MECHANICAL (<i>General</i>) Yes		
PROTECTIVE GLOVES Recommended		EYE PROTECTION Safety glasses recommended.	
OTHER PROTECTIVE EQUIPMENT			
Non-porous or heavy work clothing to protect from skin exposure.			
SECTION VIII SPECIAL PRECAUTIONS			
PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING			
Store in cool, dry place for best storage conditions. Avoid skin contact.			
OTHER PRECAUTIONS			
Before using, read the bulletin "Toxicity Information Related to Handling and Processing HYPALON®" HP-110.1.			

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