



MATERIAL SAFETY DATA SHEET

MSDS063

SECTION I – PRODUCTION IDENTIFICATION

META-ARAMID (NOMEX®) PRODUCTS

MANUFACTURER:

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Prepared by: Newtex Quality Department

SECTION II - INGREDIENTS

The above products are considered "articles" according to OSHA Hazard Communication Standard 29 CFR 1910.1200 and, as such, are exempt from the Material Safety Data Sheet provisions of 29 CFR 1910.1200(G)(6). As a service to the customer, Newtex Industries Inc. has prepared this Material Safety Data Sheet to provide appropriate safety and handling information. These products are considered non-hazardous when used according to accepted practices for the intended use.

<u>COMMON NAME:</u>	<u>CHEMICAL NAME:</u>	<u>CAS No.</u>	<u>WT.%</u>
Meta-Aramid	M-Phenylenediamine	25765-47-3	100%
	N,N-Dimethylacetamide	127-19-5	

SECTION III - HAZARD IDENTIFICATION

Emergency Overview

No unusual conditions are expected from this product.
The hazards of this product are associated mainly with its
processing.

PRIMARY ROUTES OF ENTRY:

Inhalation: Processing meta-aramid products can release respirable dust and respirable fiber particulate. Dust may form explosive mixture in air. Prolonged inhalation of respirable dust and respirable fiber particulate at high concentrations can cause lung damage. Processing meta-aramid products can release Dimethyl Acetamide (DMAC). DMAC may be harmful by inhalation after often repeated exposure.



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- Skin: Short contact with human skin is not likely to produce skin irritation. Continual rubbing of fiber particulates and dust on the skin can cause a transitory, mild irritation with redness or itching.
- Eyes: High concentrations of dust may cause a physical irritation to the eye.
- Ingestion: Although not likely to occur in industrial applications, accidental ingestion may cause irritation of the mouth and gastrointestinal tract.

CHRONIC HEALTH EFFECTS:

There is no known chronic health effects associated with long term use or contact with this product.

CARCINOGENICITY:

This product is not known as a carcinogen.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

Respiratory or skin conditions that are aggravated by mechanical irritants may be at an increased risk for worsening from exposure to this product.

SECTION IV – FIRST AID

- INHALATION: If processing dust is inhaled, move the person to fresh air. Seek medical attention if irritation persists.
- SKIN: Wash any material off skin with mild soap and cool water. Do not rub or scratch irritated areas. This may force fibers into the skin. Seek medical attention if irritation persists.
- EYES: Flush with water for at least 15 minutes. Seek medical attention if irritation persists.
- INGESTION: Not expected to occur. Should ingestion take place, the person should be watched for several days to ensure intestinal blockage does not occur.

SECTION V - FIRE AND EXPLOSION HAZARD DATA

- FLASH POINT (METHOD USED): N/A
- FLAMMABLE LIMIT: LEL: N/A UEL: N/A
- AUTO IGNITION TEMPERATURE: N/A
- UNUSUAL FIRE AND EXPLOSIVE HAZARDS: None
- EXTINGUISHING MEDIA: Fiberglass will not support combustion. In a sustained fire use a extinguisher appropriate for surrounding fire.
- SPECIAL FIRE FIGHTING PROCEDURES: Fiberglass itself will not support combustion, but in a sustained fire, proper protection against



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products of combustion for the fuel and the sizing must be worn. Use self-contained breathing apparatus (SCBA) and full bunker turnout gear in a sustained fire.

HAZARDOUS COMBUSTION PRODUCTS:

In a sustained fire, the yarn will decompose, releasing minor quantities of decomposition products believed to be insufficient to be harmful.

SECTION VI - SPILL OR LEAK PROCEDURES

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

- Land Spill: Material is a solid. Pick up the larger pieces and wet sweep or vacuum up any scrapes. Place in a suitable container for disposal as a non-hazardous waste.
- Water Spill: This material will sink and disperse along the bottom of waterways and ponds. Large pieces should be removed and placed in a suitable container for disposal. Smaller pieces cannot be easily removed after it is waterborne; however, the material is non-hazardous in water.
- Air Release: The material will settle out of the air where it can be cleaned as a land spill.

SECTION VII – HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING:

For maximum comfort, avoid excessive contact with skin and use good personal hygiene. Avoid dust formation. Exposure to fiber fly, dust and decomposition products of spin-finishes should be avoided by ventilation and/or vacuum cleaning.

OTHER PRECAUTIONS:

If excessive dust is generated, use a respirator approved by NIOSH for dust. This material is not an electrical conductor and may accumulate static charge.

STORAGE TEMPERATURE:

N/A

STORAGE PRESSURE:

N/A

GENERAL:

Keep away from direct sunlight.



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SECTION VIII – EXPOSURE CONTROL/ PERSONAL PROTECTION

EXPOSURE LIMITS:

<u>COMMON NAME:</u>	<u>OSHA PEL</u> 8-hr TWA	<u>ACGIH TLV</u> 8-hr TWA	<u>AEL(DUPONT) 8-</u> hr TWA
Meta-Aramid	None Established	None Established	10 mg/m ³
N,N-Dimethylacetamide	10 ppm	10 ppm	10 ppm

OSHA = Occupational Safety and Health Administration

ACGIH = American Conference of Governmental Industrial Hygienists

AEL (DUPONT) = DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PEL = Permissible Exposure Limits

TLV = Threshold Limit Value

VENTILATION:

Use local exhaust or general room dilution to maintain employee exposures below occupational exposure limits. Recirculated air should be filtered to remove respirable dust. Provide for appropriate exhaust ventilation and dust collection at machinery. Static charges can cause explosions in solvent and dust laden atmospheres. Provide grounding of equipment to prevent static build-up.

RESPIRATORY PROTECTION:

If the use or manufacturing of this product generates dust concentrations above the exposure limit, appropriate certified respirators must be used.

PROTECTIVE GLOVES:

Not required, but gloves and barrier creams can be used to protect against mechanical irritation of the hands.

EYE PROTECTION:

As generally good practice, safety glasses with side shields should be worn.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT:

None required. Good personal hygiene, barrier creams, caps, coveralls, loose fitting long sleeve shirt that covers to the base of the neck and long pants will maximize comfort. Skin irritation is known to occur chiefly at pressure points such as around the neck, wrist, waist, and between fingers.

WORK HYGIENIC PRACTICES:

Handle using good industrial hygiene and safety practices. Wash thoroughly with mild soap and cool water after handling of the material. Remove material from clothing using vacuum equipment (never used compressed air). Keep the work area clean of dusts and fibers released during



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processing or fabrication. Use vacuum equipment to clean up product. Avoid dry sweeping or using compressed air as these techniques re-suspend dusts and fibers into the air. Have access to a shower and eye wash station.

SECTION IX - PHYSICAL DATA

BOILING POINT:	Not Applicable
MELTING POINT:	Not Applicable
FREEZING POINT:	Not Applicable
SPECIFIC GRAVITY RANGE (H ₂ O=1):	1.38
pH:	Not Applicable
VISCOSITY:	Not Applicable
SOLUBILITY IN WATER:	Insoluble
PERCENT VOLATILE BY VOLUME:	None
VAPOR DENSITY (Air=1):	Not Applicable
VAPOR PRESSURE (mm Hg):	Not Applicable
EVAPORATION RATE (Butyl Acetate=1):	Not Applicable
PHYSICAL STATE:	Solid
APPEARANCE AND ODOR:	Woven fabric that can be dyed a wide range of colors; odorless.

SECTION X - REACTIVITY DATA

STABILITY:	Stable
CONDITIONS TO AVOID:	Temperatures above 392°F (200°C). Heating can release hazardous gases.
INCOMPATIBILITY:	Strong acids and strong bases
HAZARDOUS POLYMERIZATION:	Will not occur

HAZARDOUS DECOMPOSITION OR BYPRODUCTS:

Decomposition temperature is >572°F (300°C). Hazardous thermal decomposition products include Carbon monoxide, Nitrogen Oxides (NO_x), and Hydrogen cyanide (gaseous).

SECTION XI - TOXICOLOGICAL INFORMATION

CARCINOGENICITY: None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP or OSHA as a carcinogen.

<u>INGREDIENT</u>	<u>IARC</u>	<u>NTP</u>	<u>OSHA</u>
Meta-Aramid	No	No	No
N,N-Dimethylacetamide	No	No	No

Meta-Aramid

Oral ALD: > 11,000 mg/kg, rat
Inhalation ALC: >238 mg/m³, rat; Lung effects
Skin irritation: Non- irritant
Carcinogenicity: Did not show carcinogenic effects in animal experiments.

N,N-Dimethylacetamide

Dermal LD50: 2,240-9,600 mg.kg, animals (unspecified species)
Oral LD50: 3,000-6,000 mg.kg, rat
Inhalation 1 hr LC: 8.81 mg/l female, rat
Value applicable only is respirable particles are formed.
Inhalation 4 hr LC: 2.2 mg/l female, rat
Skin irritation: Mild skin irritation, rabbit
Eye irritation: Irritant, rabbit
Repeated dose toxicity:
Dermal - Central nervous system depression, Liver effects, Skin effects
Oral - Pathologic changes, Stomach, Testes, Liver, Kidney, Abnormal decrease in number of red blood cells (anaemia)
Inhalation - Kidney effects, Liver effects, Retinal damage
Carcinogenicity: Did not show carcinogenic effects in animal experiments.
Mutagenicity: Did not cause genetic damage in cultured bacterial cells. Did not cause genetic damage in cultured mammalian cells. Evidence suggests this substance does not cause genetic damage in animals.
Toxicity to reproduction: Animal testing showed no reproductive toxicity.
Teratogenicity: Animal testing showed effects on embryo-foetal development at levels equal to or above those causing maternal toxicity.



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SECTION XII - ECOLOGICAL INFORMATION

Meta-Aramid - This product has no known eco-toxicological effects. It is considered to be an inert solid waste. This material is not expected to cause harm to animals, plants or fish. No special precautions are needed in case of a release or spill.

N,N-Dimethylacetamide – Fathead minnow 1,500 mg/l

SECTION XIII – DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHOD: Can be landfilled or incinerated in compliance with federal, state, provincial and local environmental control regulations. Dispose of as any other innocuous material. Product is not a hazardous waste under RCRA 40 CFR 261.

SECTION XIV - TRANSPORTATION INFORMATION

DOT SHIPPING NAMES:	Not regulated
HAZARD CLASS OR DIVISION:	None
SECONDARY:	None
IDENTIFICATION NUMBER:	None
PACKING GROUP:	None
LABEL(S) REQUIRED (if not excepted):	None
SPECIAL PROVISIONS:	None
PACKAGE EXCEPTIONS:	None
NON-BULK PACKAGING:	None
BULK PACKAGING:	None
EPA HAZARDOUS SUBSTANCES:	None
REPORTABLE QUANTITY:	Not Applicable
QUANTITY LIMITATIONS:	
PASSENGER AIRCRAFT:	None
CARGO AIRCRAFT:	None
MARINE POLLUTANTS:	None
FREIGHT DESCRIPTION:	None
HAZARDOUS MATERIAL SHIPPING DESCRIPTION:	None

TRANSPORTATION OF DANGEROUS GOODS – CANADA

DOT SHIPPING NAMES:	Not regulated
TDG HAZARD CLASSIFICATION	
PRIMARY:	None
SECONDARY:	None



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IMO CLASSIFICATION:	None
ICAO/IATA CLASSIFICATION:	None
PRODUCT IDENTIFICATION NUMBER:	None
PACKING GROUP:	None
CONTROL TEMPERATURE:	None
EMERGENCY TEMPERATURE:	None
SCHEDULE XII QUANTITY RESTRICTIONS:	None
REPORTABLE QUANTITY FOR US SHIPMENTS:	None
IATA PACKAGING INSTRUCTIONS	
PASSENGER/CARGO:	None
CARGO ONLY:	None
LIMITED QUANTITY:	None
MAXIMUM NET QUANTITY PER PACKAGE	
PASSENGER/CARGO:	None
CARGO ONLY:	None
LIMITED QUANTITY:	None
SPECIAL PROVISIONS:	None

SECTION XV - REGULATORY INFORMATION

TSCA STATUS: Product is an article as defined at 40CFR720.3(c) and is not subject to TSCA inventory requirements.

SARA TITLE III **Reportable Ingredients:**
Section 313: None

CALIFORNIA PROPOSITION 65: None known

META-ARAMID PRODUCTS are considered articles, therefore are exempt from the following requirements:

USA:	TSCA – Toxic Substances Control Act
EUROPE:	EINECS – European Inventory of Existing Commercial Chemical Substances
CANADA:	DSL – Domestic Substance List
AUSTRALIA:	AICS – Australian Inventory of Chemical Substances
KOREA:	ECL (KECI) – Korean Existing Chemical Inventory
JAPAN:	MITI (ENCS) – Existing and New Chemical Substances
PHILIPPINES:	PICCS – Philippines Inventory of Chemicals and Chemical Substances



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SECTION XVI – OTHER INFORMATION

The information herein is given in good faith, but no warranty, expressed or implied is made and we assume no liability from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes.

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