

MATERIAL SAFETY DATA SHEET

Date 8/21/02

SECTION I - MANUFACTURER'S INFORMATION

NAME: Norfab Corp. PRODUCT: BASE MATERIAL:
ADDRESS: 1032 Stanbridge St. 100% para-aramid
Norristown, PA 19404
TELEPHONE: 610- 277-6100 COATING: Aluminum based binder
Finish No. 30 or 61

SECTION II - OSHA HAZARDOUS SUBSTANCES

<u>COMPONENT</u>	<u>CAS NO.</u>	<u>ACGIH TLV</u>	<u>OSHA PEL</u>
Aluminum compound	1318-23-6	6 mg/m ³ (<u>DFG MAK</u>)	15 mg/m ³ , total dust 5 mg/m ³ , respirable

DFG MAK German Research Society maximum allowable concentration

SECTION III - PHYSICAL DATA

Boiling Point: N/A Specific Gravity (water=1): N/A
Melting Point: N/A Vapor Density: N/A
Percent Volatile: N/A Vapor Pressure: N/A
Solubility in Water: Insoluble Evaporation Rate: N/A
APPEARANCE AND ODOR: Base fabric – Yellow to yellow brown; no odor

SECTION IV - FIRE AND EXPLOSION DATA

FLASH POINT: N/A METHOD USED: N/A
AUTO IGNITION TEMP: N/A FLAMMABILITY LIMITS: N/A
EXTINGUISHING MEDIA: Water, chemical foam, dry chemical, CO₂, and/or smother.
SPECIAL FIRE FIGHTING INSTRUCTIONS: Use self-contained breathing apparatus to protect against hazardous decomposition products when this product is exposed to temperatures above 570°F (300°C).
UNUSUAL FIRE AND EXPLOSION HAZARDS: N/A

SECTION V - HEALTH HAZARD DATA

PRIMARY ROUTES OF EXPOSURE: Inhalation, skin, eye

HEALTH HAZARDS:

ACUTE: None known.

CHRONIC: None known.

HEALTH HAZARD EVALUATION

Para-aramid products are believed to be safe for their intended use. It has been evaluated for health hazards by the manufacturer of the fiber. Their information indicates that the fibers are not toxic or irritating based on animal and some human skin test data.

SECTION VI - EMERGENCY AND FIRST AID PROCEDURES

INHALATION: If irritation or other respiratory symptoms develop move to fresh air.

SKIN CONTACT: If fibers irritate the skin wash with soap and water.

EYE CONTACT: Flush eyes with water for 15 minutes or until fibers are removed.

INGESTION: N/A

FOR ALL CONDITIONS SEEK MEDICAL ATTENTION IF IRRITATION PERSISTS.

SECTION VII - EMPLOYEE PROTECTION

THE FOLLOWING PRECAUTIONS ARE ADVISABLE DURING CUTTING AND FABRICATION OR OTHER OPERATIONS THAT COULD GENERATE DUST WHILE USING THIS MATERIAL.

VENTILATION: General dilution and/or local exhaust ventilation should be provided as necessary to maintain exposures below occupational exposure limits (See Section II).

RESPIRATORY PROTECTION: A properly fitted NIOSH/MHSA approved dust respirator should be used when: 1) the level of dust in the air exceeds occupational exposure limits (See Section II); 2) or if irritation occurs. Use respiratory protection in accordance with your company's respiratory protection program, and OSHA regulations under 29 CFR 1910.134.

EYE PROTECTION: Safety glasses, goggles, or face shields, as necessary.

PROTECTIVE CLOTHING: Wear loose fitting long sleeve shirt and pants or other appropriate clothing to protect those areas where irritation is experienced.

WORK AND HYGIENIC PRACTICES: Handle in accordance with good industrial hygiene and safety practices.

SECTION VIII - REACTIVITY DATA

STABILITY: Product is stable.

INCOMPATIBILITY: None reasonably foreseeable.

HAZARDOUS DECOMPOSITION PRODUCTS: Base fabric will decompose above 570°F (300°C) producing CO₂, CO, and small amounts of Hydrogen Cyanide, and other toxic gases depending on conditions. Coating could decompose into Aluminum Oxide fume. Avoid inhalation of decomposition gases.

HAZARDOUS POLYMERIZATION: Will not occur.

SECTION IX - STORAGE PRECAUTIONS

N/A

SECTION X- ENVIRONMENTAL PROTECTION

SPILLS: N/A

WASTE DISPOSAL: Dispose as a solid non-hazardous waste, in accordance with federal, state, and local regulations.