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Material Safety Data Sheet

TECAMID™6/6 Natural, Black and Heat Stabilized

EMERGENCY TELEPHONE: 724-746-6050 or 856-227-0500
ISSUE DATE: October 1, 1985
REVISION DATE: April 16, 2011
TRADE NAME: TECAMID™
PART NAME: NYLON 6/6, HEAT STABILIZED
CHEMICAL NAME: Polyhexamethylene Adipamide

1. Information on Ingredients

MATERIAL	CAS Number	%
Polyhexamethylene Adipamide	32131-17-2	>90
Colorants, Lubricants, Stabilizers		<10

Material is not known to contain Toxic Chemicals under Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

2. Hazard Identification

POLYHEXAMETHYLENE ADIPAMIDE

In general, skin irritation has not been produced in human patch tests with Nylon 66. However, a small percentage of subjects may respond to prolonged contact with redness of skin. Significant skin permeation, and systemic toxicity, after contact appears unlikely. There are no reports of human sensitization.

If particles of Nylon 66 contact the eye, mechanical irritation with tearing, pain or blurred vision may result.

CARCINOGENICITY INFORMATION

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

3. First Aid Measures

INHALATION

No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary. If exposed to fumes from overheating or combustion, move to fresh air. Consult a physician if symptoms persist.

SKIN CONTACT

The compound is not likely to be hazardous by skin contact, but cleansing the skin after use is advised. If molten polymer gets on skin, cool rapidly with cold water. Do not attempt to peel polymer from skin. Seek medical treatment for thermal burn.

EYE CONTACT

In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician if irritation persists.

INGESTION

No specific intervention is indicated as compound is not likely to be hazardous by ingestion.

4. Fire Fighting Measures

FLAMMABLE PROPERTIES

Flash Point: Not Applicable

Fire and Explosion Hazards :

- Like most organic materials in powder form, dust generated from this product may form a flammable dust-air mixture. Potential for a dust explosion may exist. Minimize the generation and accumulation of dust. Keep away from sources of ignition.
- Large molten masses may ignite spontaneously in air. Water quenching of such masses is good practice.
- Hazardous gases/vapors produced in fire are ammonia, carbon monoxide, traces of hydrogen cyanide, aldehydes.

EXTINGUISHING MEDIA

Water, Foam, Dry Chemical, CO₂

FIRE FIGHTING INSTRUCTIONS

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus.

5. Handling and Storage

HANDLING (Personnel)

See FIRST AID and PERSONAL PROTECTIVE EQUIPMENT Sections

HANDLING (Physical Aspects)

Minimize the generation and accumulation of dust.

STORAGE

Store in a cool dry place. Keep away from heat and sunlight.

6. Exposure Controls / Personal Protection

ENGINEERING CONTROLS

VENTILATION: If hot processing this material, use local and/or general exhaust ventilation to control the concentration of vapors and fumes below exposure limits.

In cutting, grinding, or machining operations with this material, use local exhaust to control the concentration of dust below exposure limits.

PERSONAL PROTECTIVE EQUIPMENT*EYE/FACE PROTECTION*

Wear safety glasses. Wear overall chemical splash goggles and face shield when possibility exists for eye or face contact with molten material. A full face mask positive-pressure air-supplied respirator provides protection from eye irritation.

RESPIRATORS

A NIOSH/MSHA approved air-purifying respirator with an organic vapor cartridge with a dust/mist filter may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, where exposure levels are not known, or any other circumstances where air-purifying respirators may not provide adequate protection.

During grinding, sawing, routing, drilling or sanding operations use a NIOSH/MSHA approved air-purifying respirator with dust/mist cartridge or canister if airborne particulate concentrations are expected to exceed permissible exposure levels.

PROTECTIVE CLOTHING

If there is potential contact with hot/molten materials, wear heat resistant clothing and footwear. Wear leather or cotton gloves when grinding, sawing, routing, drilling or sanding.

EXPOSURE GUIDELINES*EXPOSURE LIMITS***POLYAMID NYLON**

PEL (OSHA):	Particulates (Not Otherwise Regulated) 15 mg/m ³ , 8 hr. TWA, total dust 5 mg/ m ³ , 8 hr. TWA, respirable dust
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*OTHER APPLICABLE EXPOSURE LIMITS***POLYHEXAMETHYLENE ADIPAMIDE (Nylon 66)**

PEL (OSHA)	None Established
TLV (ACGIH)	None Established

AEL* 10 mg/m³, 8 Hr. TWA, total dust
5 mg/m³, 8 Hr. TWA, respirable dust

* AEL is the manufacturer's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

7. Physical and Chemical Properties

PHYSICAL DATA

Melting Point:	>200°C (>392 °F)
Solubility in Water:	Insoluble
Odor:	None
Color:	Pale Yellow/Cream or Black
Form:	Rod, Plate, Sheet or Tube (stock shape product)
Specific Gravity:	> 1

8. Stability and Reactivity

CHEMICAL STABILITY

Stable at normal temperatures and storage conditions.

CONDITIONS TO AVOID

Temperatures above 340°C (644°F). Avoid prolonged exposure at or above the recommended processing temperatures.

INCOMPATIBLY WITH OTHER MATERIALS

Incompatible or can react with strong acids, oxidizing agents.

DECOMPOSITION

Hazardous gases or vapors can be released, including ammonia, carbon monoxide, cyclopentanone, hydrogen cyanide, nitrogen oxides.

POLYMERIZATION

Polymerization will not occur.

9. Toxicological Information

ANIMAL DATA

NYLON 66

Oral LD50: >10,000 mg/kg in rats

Nylon 66 is not a skin irritant in tests with animals.

Single exposure by ingestion to high doses caused decreased body weight. Long-term exposure caused no significant toxicological effects.

Repeated insufflation exposure caused histopathological changes of the lungs and kidneys. In animal testing Nylon 66 has not caused carcinogenicity. No animal data are available to define developmental, reproductive, or mutagenic hazards.

10. Ecological Information

AQUATIC TOXICITY

No information is available. Toxicity is expected to be low based on insolubility in water. Do not discharge to streams, ponds, lakes or sewers.

11. Disposal Considerations

WASTE DISPOSAL

Preferred options for disposal are (1) recycling, (2) incineration with energy recovery, and (3) landfill. The high fuel value of this product makes option 2 very desirable for material that cannot be recycled, but incinerator must be capable of scrubbing out acidic combustion products. Treatment, storage, transportation, and disposal must be in accordance with applicable federal, state/provincial, and local regulation.

12. Transportation Information

SHIPPING INFORMATION

Not regulated in transportation by DOT/IMO/IATA.

13. Regulatory Information

U.S. FEDERAL REGULATIONS

TSCA Inventory Status: In compliance with TSCA Inventory requirements for commercial purposes.

STATE REGULATIONS (U.S.)

STATE RIGHT-TO-KNOW

No substances on the state hazardous substances list, for the states indicated below, are used in the manufacture of products on this Material Safety Data Sheet, with the exceptions indicated.

Substances on the Pennsylvania Hazardous Substances List present at a concentration of 1% or more (0.01% for special hazardous substances) – None known.

WARNING – Substances known to the state of California to cause cancer, birth defects or other reproductive harm – None known

Substances on the New Jersey workplace hazardous substance list present at the concentration of 1% or more (0.1% for substances identified as carcinogens, mutagens or teratogens) – None known.

14. Other Information

ADDITIONAL INFORMATION

MEDICAL USE: CAUTION – Do not use in medical applications involving permanent implantation in the human body.

This Material Safety Data Sheet and the information it contains is offered to you in good faith as accurate. We have reviewed any information contained in this data sheet which we received from sources outside our company. We believe this information to be correct but cannot guarantee its accuracy or completeness. Health and safety precaution in this data sheet may not be adequate for all individuals and/or situations. It is the user's responsibility to evaluate and use this product safely and to comply with all applicable laws and regulations. No statement made in the data sheet shall be construed as a permission or recommendation for the use of any product in a manner that may infringe existing patents. No warranty is made, either expressed or implied.