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Material Safety Data Sheet

Section 1 - Product Identification

Product Kombat SST/Gemini/Black Gemini
Description Turnout Outer Shell Fabric

Section 2 - Hazardous ingredients

Chemical or Common Name	Max. % by Weight
Formaldehyde	300 ppm

Section 3 - Other Ingredients

Chemical or Common Name	Max. % by Weight
Para-aramid fiber	63.5
Polybenzimidazole	42.5
Textile processing chemicals	2.0
Absorbed water	12.0

Section 4 - Health Hazards Data

Effects of Exposure

- Eye:** Fiber fly and dust may cause slight mechanical irritation. Aramid fibers are untested for eye irritancy.
- Skin:** Aramid fabrics do not cause sensitization (allergic reaction) and have little potential for skin irritation. Continual rubbing of fabric on the skin may cause skin irritation.
- Ingestion:** None toxic when eaten.
- Inhalation:** Amid fibers are too big to inhale into the lungs, but fiber dust and fly from processing may be breathed into the nose and throat. Working unprotected in dusty conditions may cause upper respiratory irritation and cold-like symptoms

Signs and Symptoms of Overexposure

- Eye/Skin:** Irritation.
- Inhalation:** Upper respiratory irritation or cold-like symptoms.

First Aid:

- Inhalation:** If large amounts of fumes, dust or fibers are inhaled, move to fresh air. If persistent cough or other symptoms develop, get medical attention.
- Skin:** Wash with soap and water. Wash contaminated clothing/gloves before reuse. Use hand creams to soothe and moisten irritated skin. Get medical attention if irritation persists after contact stops.
- Ingestion:** Not a probable route. In case of Gastro-intestinal distress following accidental ingestion, call a physician.

Section 5 - Handling and Disposal

Spill Release Procedures:

Use appropriate personal protective equipment. Wash, shovel or mop up fibers and place in solid waste containers. Avoid the use of dry sweeping or air jet blowing of fibers and dust: these can re-suspend in the air. Clean up dusts with high efficiency particulate air (HEPA) filtered vacuum equipment, by wiping or by wet cleaning.

Waste Disposal Methods

Waste materials of Aramid fabrics/fibers may be treated, stored, transported and disposed of in accordance with state and local regulations covering the disposal of other common and non-RCRA regulated waste materials.

Handling and Storage Precautions

Do not store in direct sunlight. Fluorescent lighting will cause discoloration, but will not affect fiber properties.

Other Precautions

Use only with adequate ventilation. Avoid dust generation. Do not consume food, drink, or other tobacco in areas where they may become contaminated with this material.

Section 6 - Fire Hazard Information

Flashpoint:

N/A

Extinguishing Media:

Use water, foam, carbon dioxide (CO₂), or dry chemical.

Fire Fighting Procedures:

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

Wear full protective equipment.

Unusual Fire Hazard:

In a sustained fire, combustible decomposition products may be released. The principle products produced are carbon monoxide, carbon dioxide, nitrogen oxides and small amounts of hydrogen cyanide, ammonia, aldehydes, aliphatic hydrocarbons and other toxic gases depending on burn conditions.

Section 7 - Control Measures

Respiratory Protection

When cutting or mechanically working this product, wear NIOSH approved respiratory protection if there is potential for airborne exposure, or if there is potential for irritation of the nasal passages to occur.

Ventilation

If fumes/fiber fly/dust are generated, use engineering controls whenever necessary to control exposure.

Eye Protection

Safety glasses with side shields

Work Hygienic Practices

Do not consume food, drink, or other tobacco in areas where they may become contaminated with this material.

Section 8 - Physical Properties

Solubility in water

Insoluble

Appearance/Physical State

Yellowish tint, solid fabric

Odor:

No distinctive odor

Section 9 - Reactivity Data

Stability Indicator

Yes

Materials to Avoid

None reasonably foreseeable

Hazardous Decomposition Products

Fiber decomposition temperature >400C. At lower temperatures finish may boil off as a fume, which should be vented.

Hazardous Polymerization

Will not occur

Section 10 - Toxicological Information

Eye Effects

Aramid fabric is untested for eye injury

Skin Effects

Aramid fabric is not a skin irritant or a skin sensitizer in animals. Skin sensitization has not been observed in human skin patch test or in industrial experience.

Acute Oral Effects

Aramid fabric has very low toxicity by ingestion.

Acute Inhalation Effects

Industrial experience show the inhalation of Aramid fabric dust and fly may cause mechanical irritation of the mucous membranes of nose and throat.

Disclaimer:

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of the suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards which exist.

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