



MATERIAL SAFETY DATA SHEET

MSDS IDENTIFICATION NAME: Tyfo[®] WAB
MSDS NUMBER: TYFO-WAB-002
DATE: 08/18/11 **PAGE:** 1 OF 5
SUPERSEDES: 01/01/2008

SECTION I: MATERIAL AND MANUFACTURER IDENTIFICATION

MANUFACTURER:
FYFE CO. LLC
8380 Miralani Drive
San Diego, CA 92126

EMERGENCY TELEPHONE NUMBER:
800-424-9300 or 703-527-3887

INFORMATION TELEPHONE NUMBER:
Tel: 858-642-0694 Fax: 858-444-2982

PRODUCTION IDENTIFICATION NUMBER: Tyfo[®] WAB
CHEMICAL FAMILY: Aramid Fiber (woven fabric)

SECTION II: OSHA REGULATED COMPONENTS

This document is prepared pursuant to the OSHA Hazard Communication Standard (29 CFR 1910.1200).

MATERIAL OR COMPONENT	CAS NUMBER	% BY WEIGHT	OSHA(PEL)	ACGIH(TLV)
ARAMID FIBER	26125-61-1	>89%	Not Determined	Not Determined
POLYMER SIZING	25036-25-3	<5	Not Determined	Not Determined
ARAMID FINISH		<2	Not Determined	Not Determined
SODIUM SULFATE		<0.1	Not Determined	Not Determined
WATER, ABSORBED		0-7	Not Determined	Not Determined

SECTION III: HAZARD IDENTIFICATION

EMERGENCY OVERVIEW: No unusual conditions are expected from this product.

APPEARANCE AND ODOR: Resin-coated yellow fibers woven into bidirectional fabric with no distinctive odor.

STATEMENTS OF HAZARD:

DUST PARTICLES ASSOCIATED WITH THIS PRODUCT MAY CAUSE IRRITATION OF THE SKIN, EYES, OR UPPER RESPIRATORY TRACT.

PRIMARY ROUTES OF EXPOSURE:

EYES--YES SKIN CONTACT--YES INHALATION--NO INGESTION--NO

HMIS RATING:

ARAMID: HEALTH--0 FLAMMABILITY--1 REACTIVITY--0 SPECIAL--NONE

POTENTIAL HEALTH EFFECTS:

EYES: Low hazard. Fiber fly and dust may cause temporary irritation.

SKIN: Low hazard for usual industrial or commercial production. Continual rubbing of fibers on the skin may cause irritation.

INHALATION: Fiber dust and fly from processing may be breathed into nose and throat. Working unprotected in dusty conditions may cause upper respiratory irritation and cold-like symptoms.

INGESTION: Ingestion unlikely under normal use. May cause gastrointestinal irritation.

SIGNS AND SYMPTOMS OF EXPOSURE: Possible Rash.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: None known

SECTION IV: FIRST AID MEASURES

SKIN CONTACT: To relieve skin irritation, wash with soap and water. Avoid rubbing or scratching.

EYE CONTACT: Flush eyes with water for at least 15 minutes. Avoid rubbing or scratching.

INHALATION: Remove to fresh air. Treat any irritation symptomatically, contact a physician.

INGESTION: Ingestion very unlikely.

With all contact, get medical attention if irritation persists.

SECTION V: FIRE FIGHTING MEASURES

FLASH POINT/METHOD OF DETERMINATION: Not Flammable.

FLAMMABILITY LIMITS: N/A

EXTINGUISHING MEDIA: Normal firefighting procedures. Carbon dioxide, dry chemical, water spray.

SPECIAL FIREFIGHTING PROCEDURES: Wear self-contained breathing apparatus. Keep personnel removed and upwind of fire. Wear full protective equipment.

USUAL FIRE AND EXPLOSION HAZARDS Aramid fiber is inherently flame resistant but can be ignited (limited oxygen index = 29). Burning of aramid normally stops when ignition source is removed. Pulp and dust may continue to smolder once ignited. Aramid fiber dust does not present explosion hazards.

SECTION VI: ACCIDENTAL RELEASE MEASURES

PROCEDURES IN CASE OF ACCIDENTAL RELEASE OR LEAKAGE: Wash, shovel or mop up and place in solid waste containers. Clean up dusts and pulp with high efficiency particulate air filtered vacuum equipment or by wet cleaning. Fiber is not biodegradable; do not flush to drains. Avoid the use of dry sweeping or air jet blowing of fibers and dust, which can re-suspend respirable dust in the air.

Aramid fiber is not a hazardous waste as defined by regulations implementing the Resource Conservation and Recovery Act (RCRA). Waste materials may be treated, stored, transported and disposed in accordance with state and local regulations governing the disposal of other non-RCRA regulated waste material.

SECTION VII: HANDLING AND STORAGE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE: Store in a cool, dry place. Maintain seal against contamination from dirt and moisture. Do not store in direct sunlight. Avoid drying of aramid to less than 4% moisture.

OTHER PRECAUTIONS: Airborne particles and filaments should be controlled so as to minimize skin irritation.

SECTION VIII: EXPOSURE CONTROLS/PERSONAL PROTECTION

EYE/FACE PROTECTION: Safety glasses

SKIN PROTECTION: Recommended disposable protective garments to eliminate possible skin irritation. Clothing should protect the base of the neck, legs and arms. Protective gloves (rubber).

RESPIRATORY PROTECTION: Personal dust respirators applicable if high degree of fiber fly is experienced. NIOSH approved nuisance dust masks.

VENTILATION: Adequate ventilation should be provided at points where product is handled. Skin contact should be minimized through process design or protected with the use of protective clothing, eye protection and work gloves.

GENERAL HYGIENE RECOMMENDATIONS: Before eating, drinking, smoking or using toilet facilities, wash face and hands thoroughly with soap and water. Do not consume food or drinks in areas where they may be contaminated with this material.

SECTION IX: PHYSICAL & CHEMICAL PROPERTIES

APPEARANCE AND ODOR	yellow, odorless
BOILING POINT (°F/°C)	N/A
MELTING POINT (°F/°C)	N/A
SPECIFIC GRAVITY (WATER=1)	1.45
VAPOR PRESSURE (MM Hg.)	N/A
VAPOR DENSITY (AIR-1)	N/A
% VOLATILE (BY WEIGHT)	<9%
EVAPORATION RATE (Butyl Acetate = 1):	N/A
SOLUBILITY IN WATER	Negligible (Dispersible)

SECTION X: STABILITY AND REACTIVITY

STABILITY: Stable under normal handling and storage conditions.

INCOMPATIBLE MATERIALS: None reasonably foreseeable.

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

HAZARDOUS POYMERIZATIONS: Will not occur under normal conditions of use.

SECTION XI: TOXICOLOGICAL INFORMATION

MATERIAL OR COMPONENT TOXICITY DATA: N/A

SECTION XII: ECOLOGICAL INFORMATION

No ecological data has been determined.

SECTION XIII: DISPOSAL CONSIDERATIONS

WASTE DISPOSAL METHODS: Industrially approved landfill. It is the responsibility of the generator to comply with all federal, state, provincial and local laws and regulations. We recommend that you contact an appropriate waste disposal contractor and environmental agency for relevant laws and regulations. Under the US, Resource Conservation and Recovery Act (RCRA), it is the responsibility of the user of the product to determine at the time of disposal, whether the product meets relevant waste classification and to assure proper disposal.

SECTION XIV: TRANSPORTATION INFORMATION

DOT AND IATA:

PROPER SHIPPING NAME	Not Applicable
HAZARD CLASS	Not Applicable
UN/NA	Not Applicable
DOT HAZARDOUS SUBSTANCE	Not Applicable
LABEL REQUIRED	Not Applicable

SECTION XV: REGULATORY INFORMATION

SARA TITLE III:

SECTION 311 HAZARDOUS CATEGORIZATION: Not Applicable

ALL MATERIALS OR COMPONENTS OF THIS PRODUCT ARE EITHER LISTED OR ARE NOT REQUIRED TO BE LISTED IN THE EPA TSCA INVENTORY

This product does not contain any components regulated under these sections of the EPA.

SECTION XVI: OTHER INFORMATION

SPECIAL PRECAUTIONS: Empty containers will retain some of the product residue. When handling or disposing of them, follow all label warnings, other instructions and waste disposal procedures.

EXPLANATION AND DISCLAIMER: Wherever such words or phrases as "hazardous," "toxic," "carcinogen," etc. appear herein, they are used as defined or described under state employee right-to-know laws, Federal OSHA laws or the or the direct sources for these laws such as the International Agency for Research on Cancer (ISRC), the National Toxicology Program (NTP), etc. The use of such words or phrases should not be taken to mean that we deem or imply any substance or exposure to be toxic, hazardous or otherwise harmful. ANY EXPOSURE CAN ONLY BE UNDERSTOOD WITHIN THE ENTIRE CONTEXT OF ITS OCCURRENCE, WHICH INCLUDES SUCH FACTORS AS THE SUBSTANCE'S CHARACTERISTICS AS DEFINED IN THE MSDS, AMOUNT AND DURATION OF EXPOSURES, OTHER CHEMICALS PRESENT AND PREEXISTING INDIVIDUAL DIFFERENCES IN RESPONSE TO THE EXPOSURE.

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APPROVED AND AUTHORIZED BY: *Edward R. Fyfe*