

MATERIAL SAFETY DATA SHEET

MSDS IDENTIFICATION NAME: TYFO® F Coat
MSDS NUMBER: TYFO-F00-02

DATE: March 3, 2009 **PAGE:** 1 OF 3
SUPERSEDES MSDS: January 2, 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:
858-642-0694

PRODUCTION IDENTIFICATION NUMBER: TYFO® F Coat
CHEMICAL FAMILY: Coating

SECTION II: HAZARDOUS INGREDIENTS / SARA III INFORMATION

OCCUPATIONAL EXPOSURE LIMITS / VAPOR PRESSURE / WT / HAZARDOUS COMPONENTS

NO REPORTABLE QUANTITIES OF HAZARDOUS INGREDIENTS ARE PRESENT

SOME INGREDIENTS ARE REGULATED AS "NUISANCE DUSTS" IN THEIR POWDER FORM; THEY ARE INTEGRALLY DISPERSED INTO THE PRODUCT AND ARE NOT PRESENT IN THE POWDER FORM IN THIS PRODUCT.

NO TOXIC CHEMICAL(S) SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III AND 40 CFR 372 ARE PRESENT.

If you repackage or otherwise redistribute this material, you must provide an MSDS and written notice concerning the above SARA Title III Section 313 and 40 CFR 372 reporting requirements to your customer and other end users.

SECTION III: PHYSICAL / CHEMICAL CHARACTERISTICS

BOILING POINT	212°F
SPECIFIC GRAVITY (H₂O=1)	1.2
VAPOR DENSITY	LIGHTER THAN AIR
EVAPORATION RATE	SLOWER THAN ETHER
SOLUBILITY IN WATER	DILUTABLE
APPEARANCE AND ODOR	White, milky, viscous liquid with slight ammonia odor

SECTION IV: FIRE AND EXPLOSION HAZARD DATA

FLASH POINT	NONE	
FLAMMABLE LIMITS IN AIR / VOLUME	LOWER: N/A	UPPER: N/A
EXTINGUISHING MEDIA	FOAM., ALCOHOL FOAM, CO ₂ , DRY CHEMICAL, WATER FOG	

SPECIAL FIREFIGHTING PROCEDURES: Closed containers exposed to extreme heat may rupture due to pressure buildup. Cool storage drum with water spray. Fire fighters must use self-contained breathing apparatus.

UNUSUAL FIRE AND EXPLOSION HAZARDS: None

SECTION V: REACTIVITY DATA

STABILITY: Stable

CONDITIONS TO AVOID: None noted for stability

HAZARDOUS DECOMPOSITION OF BYPRODUCTS: Combustion may yield carbon monoxide and / or carbon dioxide and traces of monomer and hydrochloric acid.

HAZARDOUS POLYMERIZATION: Will not occur

SECTION VI : HEALTH HAZARD DATA

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Breathing high concentrations of vapors or aerosols of this product may cause irritation of the nose, throat and respiratory tract. Asthma-like conditions may be aggravated by exposure to aerosols of this product.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE: Mild irritant to eyes causing stinging, tearing and redness on direct contact. This material is not expected to be a skin irritant.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE: No effects expected from skin exposure.

INGESTION HEALTH RISK AND SYMPTOMS OF EXPOSURE: While this material has a low degree of toxicity, ingestion of large amounts may cause gastrointestinal irritation.

HEALTH HAZARDS (ACUTE AND CHRONIC): May cause local irritations to skin and mucous membranes. No chronic effects noted.

CARCINOGENITY:

NPT?: No

IARC MONOGRAPHS?: No

OSHA REGULATED?: No

A minor component of this product (residual monomer) has been indicated as a possible human cancer hazard in laboratory animals. NPT, IARC, or OSHA HAS NOT identified it as a carcinogen. Residual monomer content less than 0.2%.

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURES: Breathing vapors or spray mist may aggravate asthma or similar respiratory conditions.

EMERGENCY AND FIRST AID PROCEDURES:

SKIN CONTACT: Wash exposed area with soap and water.

EYE CONTACT: Flush eyes with gentle stream of water. If redness or irritation persist, consult a physician.

INHALATION: None normally required. Move person to fresh air, seek medical advice if any unusual symptoms develop.

INGESTION: None normally required. If material is ingested, and unusual symptoms develop, consult a physician.

SECTION VII : PRECAUTIONS FOR SAFE HANDLING AND USE

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: Contain spilled material and collect in suitable containers. Small amount of spilled material may be absorbed into inert absorbent. Prevent spilled liquid from entering sewers, storm drains and natural waterways.

WASTE DISPOSAL METHOD: Dispose of product in accordance with all applicable Federal, State and local waste disposal regulations. Best when used immediately, storage of six months or longer may affect physical properties of product.

SECTION VII : PRECAUTIONS FOR SAFE HANDLING AND USE (CONTINUED)

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING: Keep containers closed and in a cool, dry place. Use product only with adequate ventilation, keep containers closed when not in use. Avoid subjecting product to extreme temperature variations and / or freezing conditions. Coagulation may be caused by extreme shear or addition of other chemicals. Do not wear clothing or shoes saturated with this material.

OTHER PRECAUTIONS: In general, minimal health and safety hazards are expected from the use of this material. When working with any chemical compound, basic personal hygiene practices should be observed and unnecessary exposures avoided. Launder contaminated clothing before wearing.

SECTION VIII : CONTROL MEASURES

RESPIRATORY PROTECTION: respiratory protection may be necessary to minimize exposure to vapors and spray mists, depending on the nature and concentration of the airborne material. Use a respirator with appropriate NIOSH approved cartridges of fresh air supply as needed.

VENTILATION: Mechanical ventilation to keep vapor concentrations below TLV and PEL. Use respirator if local and mechanical ventilation is insufficient to minimize exposure.

PROTECTIVE GLOVES: Use of gloves is recommended.

EYE PROTECTION: Safety glasses or goggles with impermeable side shields is recommended.

OTHER PROTECTIVE CLOTHING AND EQUIPMENT: Apron or other impermeable clothing recommended to minimize skin contact. Eye wash and safety shower in work areas is recommended.

WORK / HYGIENIC PRACTICES: Wash hands before eating, drinking or smoking. Open containers of food or drink should not be allowed in work areas.

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*