

# MATERIAL SAFETY DATA SHEET

TEMPERKOTE® 600 PRIMER LIGHT GRAY

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## SECTION 1: IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

### MANUFACTURER'S NAME / ADDRESS

FLAME CONTROL COATINGS LLC  
4120 HYDE PARK BLVD.  
NIAGARA FALLS, N.Y. 14305

TRADE NAME: TEMPERKOTE® 600 PRIMER  
COLOR: LIGHT GRAY  
MAIN USE: INDUSTRIAL HI-HEAT®  
CORROSION RESISTANT PRIMER

EMERGENCY TELEPHONE NUMBER: 800-535-5053

ISSUE DATE: FEBRUARY 25, 2013

REVISION DATE:

PREPARED BY: A. MAHMOOD

## SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	Wt. %	CAS Number
TOLUENE	1-5	000108-88-3
PARACHLOROBENZOTRIFLOURIDE	5-10	000098-56-6
XYLENE-MIXED ORTHO, META AND PARA ISOMERS	5-10	001330-20-7
AROMATIC PETROLEUM DISTILLATES	5-10	064742-95-6
MICA	5-10	012001-26-2
BARIUM SULFATE	5-10	007727-43-7
TITANIUM DIOXIDE	1-5	013463-67-7

\*\* This product is the result of high temperature calcinations of the component substances. Due to its unique crystalline structure the properties of this finished pigment do not necessarily reflect the properties of the component metals or oxides.

## SECTION 3: HAZARDS IDENTIFICATION

**EMERGENCY OVERVIEW:** DANGER!  
HARMFUL OR FATAL IF SWALLOWED  
HARMFUL IF INHALED  
CAUSES RESPIRATORY TRACT, EYE AND SKIN IRRITATION  
CONTAINS MATERIAL WHICH CAUSES DAMAGE TO THE FOLLOWING  
ORGANS: BLOOD, KIDNEYS, LIVER, GASTROINTESTINAL TRACT,  
RESPIRATORY TRACT, SKIN, NERVOUS SYSTEM, EYE, LENSE OR CORNEA  
FLAMMABLE LIQUID AND VAPOR  
VAPOR MAY CAUSE FLASH FIRE  
MAY BE HARMFUL IF ABSORBED THROUGH SKIN  
POSSIBLE CANCER HAZARD  
CONTAINS MATERIAL WHICH CAN CAUSE CANCER

**PRIMARY ROUTES OF ENTRY:** EYE CONTACT, SKIN CONTACT, INHALATION, INGESTION.

### HEALTH HAZARDS (ACUTE AND CHRONIC EXPOSURES)

#### EYES:

**ACUTE** – LIQUID, AEROSOLS OR VAPORS ARE SEVERELY IRRITATING AND CAN CAUSE PAIN, TEARING, REDDENING AND SWELLING. IF LEFT UNTREATED, CORNEAL DAMAGE CAN OCCUR AND INJURY IS SLOW TO HEAL. HOWEVER, DAMAGE IS USUALLY REVERSIBLE

**CHRONIC** – PROLONGED VAPOR CONTACT MAY CAUSE CONJUNCTIVITIS

#### SKIN CONTACT:

**ACUTE** – REPEATED OR PROLONGED SKIN CONTACT CAN RESULT IN DRY, DEFATTED AND CRACKED SKIN CAUSING INCREASED SUSCEPTIBILITY TO INFECTION. IN ADDITION IRRITATION MAY DEVELOP INTO DERMATITIS. SOLVENTS CAN PENETRATE THE SKIN AND MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER ACUTE INHALATION SYMPTOMS.

**CHRONIC** – MAY CAUSE EFFECTS SIMILAR TO THOSE IDENTIFIED UNDER CHRONIC INHALATION EFFECTS.

#### SKIN ABSORPTION:

**ACUTE** – ND

**CHRONIC** – ND

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## SECTION 3: HAZARDS IDENTIFICATION (CON'T)

### INHALATION:

**ACUTE** – SOLVENT VAPORS ARE IRRITATING TO THE EYES, NOSE, AND THROAT. SYMPTOMS OF IRRITATION MAY INCLUDE RED, ITCHY EYES, DRYNESS OF THE THROAT AND A FEELING OF TIGHTNESS IN THE CHEST. OTHER POSSIBLE SYMPTOMS OF OVEREXPOSURE INCLUDE: HEADACHE, DIZZINESS, NAUSEA, NARCOSIS, FATIGUE AND LOSS OF APPETITE.

**CHRONIC** – CHRONIC EXPOSURE TO ORGANIC SOLVENTS HAS BEEN ASSOCIATED WITH VARIOUS NEUROTOXIC EFFECTS INCLUDING PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. SYMPTOMS INCLUDE LOSS OF MEMORY, LOSS OF INTELLECTUAL ABILITY AND LOSS OF COORDINATION. TOLUENE HAS BEEN DEMONSTRATED TO BE EMBRYOFETOTOXIC AND TERATOGENIC IN LABORATORY ANIMALS. PROLONGED OR REPEATED OVEREXPOSURE TO TOLUENE CAN CAUSE IRRITATION TO THE RESPIRATORY TRACT, ENLARGED LIVER, KIDNEY EFFECTS AND CARDIAC SENSITIZATION.

### INGESTION:

**ACUTE** – CAN RESULT IN IRRITATION OF THE DIGESTIVE TRACT. SYMPTOMS CAN INCLUDE SORE THROAT ABDOMINAL PAIN, NAUSEA, VOMITING AND DIARRHEA. VOMITING MAY CAUSE ASPIRATION OF SOLVENT RESULTING IN CHEMICAL PNEUMONITIS

**CHRONIC** – ND

**CONDITIONS AGGRAVATED BY EXPOSURE:** SKIN DISORDERS AND ALLERGIES

## SECTION 4: FIRST AID MEASURES

**GENERAL:** REMOVE PERSON FROM AFFECTED AREA AND MAKE COMFORTABLE. TREAT SYMPTOMATICALLY.

**EYES:** FLUSH WITH WATER FOR 15 MINUTES. GET MEDICAL ATTENTION.

**SKIN:** REMOVE PRODUCT AND FLUSH AFFECTED AREA WITH WATER FOR 15 MINUTES. IF IRRITATION PERSISTS, SEEK MEDICAL ATTENTION.

**INHALATION:** MOVE TO FRESH AIR. GIVE ASSISTED RESPIRATION IF BREATHING HAS STOPPED OR IS LABORED (CALL A PHYSICIAN).

**INGESTION:** GIVE 3 – 4 GLASSES OF WATER OR MILK IF PERSON CONSCIOUS. **DO NOT INDUCE VOMITING!** OBTAIN MEDICAL CARE AND TREATMENT.

**NOTES TO PHYSICIAN:** ACUTE MASSIVE EXPOSURE TO TOLUENE CAN CAUSE TRANSIENT HEMATURIA AND ALBUMINURIA. CARDIAC ARRHYTHMIAS CAN OCCUR AFTER MASSIVE INHALATION.

## SECTION 5: FIRE FIGHTING MEASURES

**FLASH POINT:** 4.4°C (40°F) TCC (TOLUENE)

**CONDITIONS OF FLAMMABILITY:** NA

**FLAMMABLE LIMITS:** (TOLUENE) **LEL:** 1.2% **UEL:** 7.0%

**SENSITIVITY TO IMPACT:** ND

**OSHA CLASS:** FLAMMABLE LIQUID, PACKING GROUP III

**AUTO IGNITION TEMP:** 480°C (869°F)

**HAZARDOUS COMBUSTION PRODUCTS:** CO, CO<sub>2</sub>, ALDEHYDES, ACIDS

**SENSITIVITY TO STATIC DISCHARGE:** STATIC DISCHARGE MAY CAUSE MATERIAL TO IGNITE

**EXTINGUISHING MEDIA:** IGNITION MAY GIVE RISE TO A CLASS B FIRE. IN CASE OF FIRE USE: WATER FOG, CARBON DIOXIDE, DRY CHEMICAL, ALCOHOL FOAM.

**SPECIAL FIRE FIGHTING PROCEDURES:** WEAR SELF-CONTAINED BREATHING APPARATUS AND PROTECTIVE CLOTHING. WATER SPRAY IS USEFUL IN COOLING FIRE-EXPOSED VESSELS AND IN DISPERSING VAPORS.

**UNUSUAL FIRE AND EXPLOSIVE HAZARDS:** MAY GENERATE TOXIC OR IRRITATING COMBUSTION PRODUCTS. SUDDEN REACTION AND FIRE MAY RESULT IF PRODUCT IS MIXED WITH AN OXIDIZING AGENT. SOLVENT VAPORS MAY BE HEAVIER THAN AIR. UNDER CONDITIONS OF STAGNANT AIR, VAPORS MAY BUILD UP AND TRAVEL ALONG THE GROUND TO AN IGNITION SOURCE.

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## SECTION 6: ACCIDENTAL RELEASE MEASURES

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** SHUT OFF SOURCES OF IGNITION. COVER SPILLS WITH ABSORBENT. PLACE IN METAL CONTAINERS FOR RECOVERY OR DISPOSAL. PREVENT ENTRY INTO SEWERS, STORM DRAINS, AND WATERWAYS.

## SECTION 7: HANDLING AND STORAGE

**GENERAL:** STORE IN COOL, WELL VENTILATED AREAS. KEEP AWAY FROM HEAT AND OPEN FLAMES. AVOID PROLONGED INHALATION OF HEATED VAPORS OR MISTS. AVOID PROLONGED SKIN CONTACT. USE NON-SPARKING TOOLS AND GROUNDING CABLES WHEN TRANSFERRING. CONTAINERS MAY BE HAZARDOUS WHEN EMPTY.

**STORAGE:** AVOID TEMPERATURE EXTREMES. STORE AWAY FROM EXCESSIVE HEAT, FROM SOURCES OF IGNITION AND FROM REACTIVE MATERIALS. MATERIAL CAN BURN; LIMIT INDOOR STORAGE TO AREAS EQUIPPED WITH AUTOMATIC SPRINKLERS. STORE OUT OF DIRECT SUNLIGHT IN A COOL PLACE. KEEP CONTAINERS TIGHTLY CLOSED. GROUND ALL METAL CONTAINERS DURING STORAGE AND HANDLING.

## SECTION 8: EXPOSURE CONTROL/PERSONAL PROTECTION

INGREDIENTS (CAS)	EXPOSURE LIMITS (ppm)				OTHER
	OSHA		ACGIH		
	TWA	STEL	TWA	STEL	
000108-88-3	100	150	100	150	
000098-56-6	NE	NE	NE	NE	
012001-26-2	3mg/m <sup>3</sup>	ND	3mg/m <sup>3</sup>	ND	(SEE NOTE 1)
001330-20-7	100	150	100	150	
064742-95-6	NE	NE	NE	NE	
007727-43-7	5mg/m <sup>3</sup>	ND	5mg/m <sup>3</sup>	ND	(SEE NOTE 1)
013463-67-7	10mg/m <sup>3</sup>	ND	10mg/m <sup>3</sup>	ND	(SEE NOTE 1)

**LEGEND:** (M) MAX. EXPOSURE LIMIT; (S) OCCUPATIONAL EXP. LIMIT; (R) SUPPLIERS REC. LIMIT, (+) PERCUTANEOUS RISK

NOTE 1: VALUES MEANINGFUL ONLY WHEN HARDENED PRODUCT IS ABRADED, GROUND, ETC.

**ENGINEERING CONTROLS:** EXHAUST VENTILATION IS SUFFICIENT TO KEEP AIRBORNE CONCENTRATION OF THE SOLVENTS BELOW THEIR RESPECTIVE TLV'S. EXHAUST AIR MAY NEED TO BE CLEANED BY SCRUBBERS OR FILTERS TO REDUCE ENVIRONMENTAL CONTAMINATION.

**RESPIRATORY PROTECTION:** NONE REQUIRED IN ADEQUATELY VENTILATED AREAS. IF VAPOR CONCENTRATION EXCEEDS 20ppm FOR LONGER THAN 15 MINUTES, A NIOSH APPROVED RESPIRATOR FOR ORGANIC VAPORS IS RECOMMENDED.

**PROTECTIVE GLOVES:** NITRILE RUBBER

**EYE PROTECTION:** SPLASH-PROOF GOGGLES OR CHEMICAL SAFETY GLASSES

**OTHER PROTECTIVE EQUIPMENT:** LONG SLEEVED SHIRTS AND TROUSERS. EMERGENCY SHOWERS AND EYE WASH STATIONS SHOULD BE READILY ACCESSIBLE.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

**BOILING POINT:** 110.6°C (231.1°F) (TOLUENE)

**SPECIFIC GRAVITY:** 1.85-1.95

**VAPOR PRESSURE:** 24 mm Hg (TOLUENE)

**MELTING POINT:** ND

**VAPOR DENSITY:** 3.1  
(AIR = 1)

**EVAPORATION RATE:** <1  
(BUTYL ACETATE = 1)

**SOLUBILITY IN WATER:** INSOLUBLE

**pH:** NA

**COEFFICIENT of WATER/OIL DISTRIBUTION:** ND

**ODOR THRESHOLD:** ND

**APPEARANCE AND ODOR:** GRAY PIGMENTED LIQUID, AROMATIC SOLVENT ODOR

**% VOLATILES BY VOLUME:** 53%

**%SOLIDS BY WEIGHT:** 71%

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## SECTION 10: STABILITY AND REACTIVITY

**STABILITY:** STABLE; HOWEVER MAY FORM PEROXIDES OF UNKNOWN STABILITY

**CONDITIONS TO AVOID:** NOT APPLICABLE (MATERIAL IS STABLE)

**INCOMPATIBILITY (MATERIAL TO AVOID):** OXIDIZING AGENTS (PERCHLORATES, NITRATES), STRONG ACIDS, HYPOCHLORITES, PEROXIDES. PRODUCT SHOULD NOT BE COMBINED WITH PHOSPHOROUS CONTAINING MATERIALS BECAUSE HIGHLY TOXIC FUMES CAN BE EMITED IN A FIRE SITUATION.

**HAZARDOUS DECOMPOSITION PRODUCTS:** CO, CO<sub>2</sub>.

**HAZARDOUS POLYMERIZATION (REACTIVITY):** WILL NOT OCCUR.

## SECTION 11: TOXICOLOGICAL INFORMATION

**CARCINOGENIC DATA:** NTP: NONE

**OSHA:** NONE

**IARC:** NONE

TERATOGENICITY: NO

MUTAGENICITY: NO

EMBRYOTOXICITY: NO

SYNERGISTIC MATERIAL: NO

**OVEREXPOSURE EFFECTS:** LACRIMATION OF EYES, SKIN IRRITATION, DIZZINESS.

IRRITANCY: YES

SENSITIZER: YES

**ACUTE TOXICITY EFFECTS:** ORAL LD<sub>50</sub>: 5.0g/kg (Rats); DERMAL LD<sub>50</sub>: >12.0g/kg (Rabbit); INHALATION: ND

## SECTION 12: ECOLOGICAL INFORMATION

**ECOLOGICAL INFORMATION:** NOT READILY BIODEGRADABLE

**ECOTOXICITY:** ND

## SECTION 13: DISPOSAL CONSIDERATIONS

**WASTE DISPOSAL METHODS:** INCINERATION IS PREFERRED. COMPLY WITH ALL FEDERAL, STATE AND LOCAL REGULATIONS. RCRA CLASSIFIED HAZARDOUS WASTE WITH CHARACTERISTIC OF IGNITABILITY.

## SECTION 14: TRANSPORT INFORMATION

**DOT PROPER SHIPPING NAME:** PAINT

**HAZARD CLASS:** 3

**UN NUMBER:** UN1263

**PACKAGING GROUP:** III

**DOT PRODUCT RQ LBS (KGS):** 800 LBS. (362.9 KGS)

**HAZARD LABEL:** FLAMMABLE LIQUID

**HAZARD PLACARD** FLAMMABLE LIQUID

**IMO SHIPPING DATA:** PAINT, HAZARD CLASS 3, UN1263, PAKAGING GROUP III, FLAMMABLE LIQUID

**ICAO/IATA SHIPPING DATA:** PAINT, HAZARD CLASS 3, UN1263, PACKING GROUP III, FLAMMABLE LIQUID

**PASSENGER AIR MAX QUANTITY:** 60L

**PASSENGER PACKING INSTRUCTION:** 355

**CARGO AIR- MAX QTY.:** 220L

**CARGO AIR INSTRUCTION NUMBER:** 366

## SECTION 15: REGULATORY INFORMATION

**MATERIAL VOC** = 332 gram / liter

**COATING VOC** = 390 gram/liter

**TSCA (TOXIC SUBSTANCE CONTROL ACT):** ALL COMPONENTS ARE LISTED IN THE TSCA CHEMICAL SUBSTANCE INVENTORY.

**CERCLA (COMPREHENSIVE RESPONSE COMPENSATION and LIABILITY ACT):** REPORTABLE QUANTITY, TOLUENE 1000 LBS.

### SARA TITLE III

**SECTION 312 HAZARD CLASS:** IMMEDIATE (ACUTE) HEALTH HAZARD, DELAYED (CHRONIC) HEALTH HAZARD; FIRE HAZARD.

**SECTION 313 LISTED INGREDIENTS:** TOLUENE (CAS #000108-88-3)

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## SECTION 15: REGULATORY INFORMATION (CON'T)

## SECTION 16: OTHER INFORMATION

**HMIS:**

HEALTH 2

**FLAMMABILITY 3****REACTIVITY**    **0**

ACGIH:	AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGEIENISTS
OSHA:	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
STEL:	SHORT TERM EXPOSURE LIMIT
TWA:	TIME WEIGHTED AVERAGE
PEL:	PERMISSABLE EXPOSURE LIMIT
TLV:	THRESHOLD LIMIT VALUE
NA:	NOT APPLICABLE
NE:	NOT ESTABLISHED
ND:	NO DATA