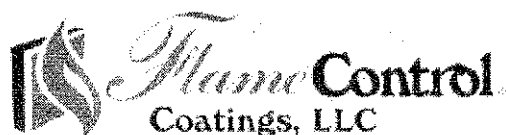


BM1046



FLAME CONTROL® 8718

HIGH SOLIDS CHAIN-STOPPED
HIGH GLOSS ALKYD

DESCRIPTION:

Flame Control No. 8718 is a short oil, alkyd, lead and chromate free, pigmented coating. No. 8718 is gray in color, but can be formulated in many colors.

RECOMMENDED USES:

Excellent adhesion to aluminum, copper, brass and ferrous metal surfaces. Used as a finish coat, hard film with abrasion, chemical and weathering resistance. Formulated for electrostatic spray.

PERFORMANCE INFORMATION:

Fast drying and can be force cured (180°F for 10 minutes) or baked.

CHARACTERISTICS:

Finish High Gloss
Resin Type ... Chain Stopped Alkyd
Type of Cure ... Solvent evaporation/
oxidation
Drying Time @ 77°F (25°C) & 50% R.H.
To touch 1-3 hours
To recoat 12-24 hours
Application Temperature
50°F (10°C) Minimum
Spreading Rate Per Coat
845 sq.ft./gal. (13.1m²/L)
2.0 mils wet, 1 mils dry
Solids by Weight 65.0 ± 2%
Solids by Volume 52.7% ± 2%
Weight Per Gallon 9.65 ± 2 lbs.
**Flash Point
of Liquid Coating** 45°F (4.4°C)
Reducer/Cleaner .. Xylene/Toluene
Shelf Life 18 month (unopened)
Packaging ... 1, 5 & 55 gal. containers
Shipping Weight ... 4 gals. - 45 lbs.
5 gals. - 54 lbs.
55 gals. - 600 lbs.
Application
Conventional and Airless spray

APPLICATION:

No. 8718 is usually applied by spray: airless, air assisted, HVLP or conventional. Addition of solvent will significantly raise the VOC. If reduction with solvent is required, Xylene is the solvent of choice but to maintain the VOC level thin with Acetone. Brushing and rolling is recommended for small areas only.

FORCE CURE/BAKE:

Heat can be used to hasten the cure of No. 8718. In addition, a bake cycle can be used to increase the adhesion and solvent resistance.

Force Cure:

Allow to flash for 10-15 minutes. Low heat of 200°F or less can be used to remove the remaining solvent. After removal from heat, allow metal to cool before handling or packing.

Bake Cycle:

Allow to flash dry at RT for 10 minutes, bake at 200°F, residence time is generally between 10-30 minutes. Allow metal to cool before handling or packing.

PRECAUTIONS:

WARNING! FLAMMABLE LIQUID & VAPOR: CONTAINS XYLENE & PETROLEUM DISTILLATES.

VAPOR HARMFUL. MAY AFFECT THE BRAIN OR NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. CAUSES EYE, SKIN, NOSE AND THROAT IRRITATION. NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage. Intentional misuse by deliberately concentrating and inhaling the contents may be harmful or fatal. Keep away from heat, sparks and flame. VAPORS MAY CAUSE FLASH FIRE. Do not smoke. Extinguish all flames and pilot lights, and turn off stoves, heaters, electric motors and other sources of ignition during use and until all vapors are gone.

Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation.

USE ONLY WITH ADEQUATE VENTILATION. Do not breathe vapors or spray mist. Ensure fresh air entry during application and drying. If you experience eye watering, headache or dizziness or if air monitoring demonstrates vapor/mist levels are above applicable limits, wear an appropriate, properly fitted respirator (NIOSH/MSHA approved) during and after application. Follow respirator manufacturer's directions for respirator use. Close container after each use. Avoid contact with eyes, skin and clothing. Wash thoroughly after handling.

FIRST AID: If you experience difficulty in breathing, leave the area to obtain fresh air. If continued difficulty is experienced, get medical assistance immediately. In case of eye contact, flush immediately with plenty of water for at least 15 minutes and get medical attention; for skin, wash thoroughly with soap and water. If swallowed, get medical attention immediately. If spilled, contain spilled material and remove with inert absorbent. Dispose of contaminated absorbent container and unused contents in accordance with local, state and federal regulations.

FOR INDUSTRIAL USE ONLY

Read MSDS before opening containers.

KEEP OUT OF THE REACH OF
CHILDREN

As we cannot anticipate all conditions under which this information and our products, or the products of other manufacturers in combination with our products, may be used, we accept no responsibility for results obtained by the application of this information or the safety or suitability of our products, either alone or in combination with other products. Users are advised to make their own tests to determine the safety and suitability of each such product or product combination for their own purposes. We sell the products without warranty or guarantee, and buyers and users assume all responsibility and liability for loss or damage from the handling and use of our products, whether used alone or in combination with other products.

MATERIAL SAFETY DATA SHEET

No. 8718

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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: NO. 8718

COLOR: ASA61 GRAY

MAIN USE: HEAT RESISTANT COATING

EMERGENCY TELEPHONE NUMBER: 800-535-5053

ISSUE DATE: MARCH 19, 2014

REVISION DATE:

PREPARED BY: A. MAHMOOD

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	Wt. %	CAS Number
TOLUENE	10-30	000108-88-3
TITANIUM DIOXIDE	10-30	013463-67-7
METHYL PROPYL KETONE	7-15	000107-87-9
XYLENE-MIXED ORTHO, META AND PARA ISOMERS	5-10	001330-20-7
ETHYLBENZENE	0.1-1.0	000100-41-4
CALCIUM CARBONATE	1-5	001317-65-3
YELLOW IRON OXIDE	0.1-1.0	051274-00-1
CARBON BLACK	0.1-1.0	001333-86-4
COBALT 2-ETHYLHEXANOATE	0.1-1.0	000136-52-7
ZIRCONIUM 2-ETHYLHEXANOATE	0.1-1.0	022464-99-9

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 SEVERLY 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 REVERSABLE

CHRONIC – PROLONGED VAPOR CONTACT MAY CAUSE CONJUNCTIVITIS

SKIN ABSORPTION:

ACUTE – ND

CHRONIC – ND

SKIN CONTACT:

ACUTE – REPEATED OR PROLONGED SKIN CONTACT CAN RESULT IN DRY, DEFATTED AND CRACKED SKIN CAUSING INCREASED SUSCEPTABILITY 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.

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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

EXPOSURE LIMITS (ppm)

INGREDIENTS (CAS)	OSHA		ACGIH		OTHER
	TWA	STEL	TWA	STEL	
000108-88-3	100	150	100	150	
013463-67-7	10mg/m ³	ND	10mg/m ³	ND	(SEE NOTE 1).
001330-20-7	100	150	100	150	
000100-41-4	100	125	100	125	
001317-65-3	15mg/m ³	ND	15mg/m ³	ND	(SEE NOTE 1)
051274-00-1	15mg/m ³	ND	10mg/m ³	ND	(SEE NOTE 1)
001333-86-4	3.5mg/m ³	ND	3.5mg/m ³	ND	(SEE NOTE 1)
000136-52-7	0.1mg/m ³	ND	0.02mg/m ³	ND	(SEE NOTE 1)
022464-99-9	5mg/m ³	ND	10mg/m ³	ND	(SEE NOTE 1)

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

ENGINEERING CONTROLS: EXHAUST VENTILATION 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: 1.1-1.2

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: PIGMENTED LIQUID, AROMATIC SOLVENT ODOR

% VOLATILES BY VOLUME: 47%

%SOLIDS BY WEIGHT: 65%

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SECTION 15: REGULATORY INFORMATION (CON'T)

SARA TITLE III

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

SECTION 313 LISTED INGREDIENTS: XYLENE (CAS #001330-20-7), ETHYLBENZENE (CAS #000100-41-4), TOLUENE (CAS #000108-88-3)

CALIFORNIA PROPOSITION 65: The below list of compounds is known to the State of California to cause cancer, birth defects or other reproductive harm: CAS #001330-20-7, CAS #000100-41-4, CAS# 001333-86-4 and CAS #000108-88-3

SECTION 16: OTHER INFORMATION

HAZARD RATING

HMIS: HEALTH 2 FLAMMABILITY 3 REACTIVITY 0

LEGEND

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

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