

MATERIAL SAFETY DATA SHEET

NO. X-GRM-PDR, PRIMER DARK RED

Page 1 of 5

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. X-GRM PRIMER
COLOR: DARK RED
MAIN USE: LOW VOC HI-HEAT®
RESISTANT COATING

EMERGENCY TELEPHONE NUMBER: 800-535-5053

ISSUE DATE: JANUARY 22, 2013

REVISION DATE:

PREPARED BY: A. MAMOOD

SECTION 2: COMPOSITION/INFORMATION ON INGREDIENTS

HAZARDOUS INGREDIENTS	Wt. %	CAS Number
VM&P NAPHTHA	1-5	064742-89-8
NATURAL WOLLASTONITE	10-30	013983-17-0
RED IRON OXIDE	5-10	001317-60-8
ZINC PHOSPHATE	5-10	007779-90-0
MICA	5-10	012001-26-2
BARIUM METABORATE MONOHYDRATE	1-5	013701-59-2
AROMATIC PETROLEUM DISTILLATES	10-30	064742-95-6
PARACHLOROBENZOTRIFLOURIDE	5-10	000098-56-6
METHYL PROPYL KETONE	5-10	000107-87-9
KAOLIN	1-5	001332-58-7
COBALT 2-ETHYLHEXANOATE	0.1-1.0	000136-52-7
ZIRCONIUM 2-EHTYLHEXANOATE	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 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.

MATERIAL SAFETY DATA SHEET

NO. X-GRM-PDR, PRIMER DARK RED

Page 3 of 5

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	
064742-89-8	200	250	200	250	
013983-17-0	10mg/m ³	ND	10mg/m ³	ND	(SEE NOTE 1)
001317-60-8	10mg/m ³	ND	5mg/m ³	ND	(SEE NOTE 1)
007779-90-0	10mg/m ³	ND	10mg/m ³	ND	(SEE NOTE 1)
012001-26-2	3mg/m ³	ND	3mg/m ³	ND	(SEE NOTE 1)
013701-59-2	0.5mg/m ³	ND	0.5mg/m ³	ND	(SEE NOTE 1)
064742-95-6	NE	NE	NE	NE	
000098-56-6	NE	NE	NE	NE	
000107-87-9	300	350	300	350	
001332-58-7	10mg/m ³	ND	2mg/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)

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: >128°C (>262°F)

SPECIFIC GRAVITY: 1.40-1.50

VAPOR PRESSURE: 170 mmHg @37.8°C (100°F)

MELTING POINT: ND

VAPOR DENSITY: 3.65
(AIR = 1)

EVAPORATION RATE: >1
(BUTYL ACETATE = 1)

MATERIAL SAFETY DATA SHEET

NO. X-GRM-PDR, PRIMER DARK RED

Page 5 of 5

SECTION 15: REGULATORY INFORMATION

MATERIAL VOC = 362 gram / liter

COATING VOC = 419 gram/liter

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

CERCLA (COMPREHENSIVE RESPONSE COMPENSATION and LIABILITY ACT): NA

SARA TITLE III

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

SECTION 313 LISTED INGREDIENTS: NONE

CALIFORNIA PROPOSITION 65: The below list of compounds is known to the State of California to cause cancer, birth defects or other reproductive harm: NONE.

SECTION 16: OTHER INFORMATION

HAZARD RATING

HMIS: **HEALTH** 1 **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

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, express or implied, is made with respect to the accuracy of the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects, which may be caused by exposure to our products. Customers/users of this product must comply with all applicable health and safety laws, regulations and orders.