

MATERIAL SAFETY DATA SHEET

MSDS Name: RF-140tm BLACK MAGIC ROOF and FLASH SEALANT
MSDS Number: 14011
Version Number 6
Revision Date: DEC-13-2007
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SECTION I - PRODUCT AND COMPANY INFORMATION

Product Name: RF-140tm BLACK MAGIC ROOF and FLASH SEALANT
HMIS Hazard Rating: Health: 1 Fire: 3 Reactivity: 0 PPE: B

Company Identification: HENKEL CORPORATION
7405 PRODUCTION DRIVE
MENTOR OH 44060

Contact (24 hour): Customer Affairs (800)321-0253
Information phone/Fax: (440) 255-8900 / (440) 974-8358
CHEMTREC Emergency (24 hour): (703) 527-3887 (International)
(800) 424-9300
in Canada CANUTEC 613-996-6666

Product Class SEALANT
Trade Name PRO-SERIES
Product Code as above

SECTION II - INGREDIENT AND HAZARD INFORMATION

Hazardous Ingredient Name	CAS Number	Percent	TSCA
PETROLEUM ASPHALT *	64742-93-4	5 - 10	Y
MINERAL SPIRITS	8052-41-3	< 5.0	Y
Methyl Acetate	0079-20-9	< 5.0	Y
Light Aliphatic Naphtha	64742-89-8	< 5.0	Y
XYLENE	1330-20-7	< 2.0	Y
Toluene	108-88-3	< 2.0	Y
CARBON BLACK	1333-86-4	< 2.0	Y
n-Hexane	110-54-3	< 2.0	Y

Ingredient Notes:

Remaining ingredients are not considered OSHA hazardous.

* Petroleum asphalt is considered hazardous only if hot and fuming.

** The main hazard for Carbon Black is in dust inhalation which is unlikely because of incorporation into polymer matrix.

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SECTION III - PHYSICAL AND CHEMICAL PROPERTIES

Form: High viscosity, mastic.
Appearance/Color: Black
Solubility (in water): insoluble
pH Value, +/- .3: Not Applicable
Boiling Range: 200.°F - 300.°F (93.33°C - 148.89°C)
Vapor Pressure (mmHg): 50.@ 68.°F (20.°C)
Evaporation Rate: 0.2 times Slower than n-Butyl Acetate
Vapor Density: Heavier than air
% Volatile, Weight 20.%
% Volatile, Volume 25.%
Specific Gravity: 1.302
VOC (less H2O or exempt) 235 gr/l (20%)

NOTE:
*BOIL RANGE, EVAP RATE, VAPOR DENSITY AND PRESSURE FOR SOLVENT ONLY!

SECTION IV - FIRE FIGHTING MEASURES

Flammability Class I B
Flash Point: Above 10.°F (-12.22°C)
Tag Closed Cup
Explosive Range (LEL/UEL): 1.2%
7.%

EXTINGUISHING MEDIA:

Carbon Dioxide---Dry Chemical---Foam
Use water fog to cool material in vicinity of fire.

SPECIAL FIRE-FIGHTING PROCEDURES:

Use self-contained breathing apparatus with full facepiece
operated in pressure demand with full protective equipment.

UNUSUAL FIRE AND EXPLOSION HAZARDS:

Any closed container may rupture when exposed to extreme heat.
Solvent vapors are heavier than air and travel along the ground.
Vapors given off are flammable and may be ignited in air explosively.

SECTION V - HEALTH HAZARD DATA

Route Species Exposure and Dose
MINERAL SPIRITS
LC50 700. mg/kg
LD50 5000. PPM

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Methyl Acetate

LD50 5000. mg/kg

Light Aliphatic Naphtha

LD50 74. PPM

LD50 18000. PPM

LD50 5000. PPM

XYLENE

LC50 6700. PPM

LD50 4.3 PPM

LD50 3.95 PPM

n-Hexane

LD50 5000. PPM

ROUTES OF ENTRY:

ENTRY THROUGH... Inhalation and skin most likely

CARCINOGENICITY...

NTP? N/E | IARC Monographs? N/E | OSHA? NO

EFFECTS OF OVEREXPOSURE

Eyes: Can cause irritation, redness, tearing and blurred vision.

Skin: Prolonged or repeated contact can cause moderate irritation, drying of the skin, and dermatitis.

Inhalation: Excessive inhalation of vapors can cause respiratory irritation, headache, drowsiness and fatigue. High concentrations of vapors are anesthetic and may cause central nervous system effects such as dizziness.

Ingestion: Can cause gastrointestinal irritation, nausea, vomiting and diarrhea.

FIRST AID MEASURES

Eyes: Flush eyes gently with water for at least 15 minutes lifting eyelids occasionally; get prompt medical attention

Skin: Wash thoroughly with soap and water; apply a mild skin cream. Remove contaminated clothing.

Inhalation: Move affected person to fresh air; if breathing is difficult, administer oxygen; if breathing has stopped, give artificial respiration. Get medical attention.

Ingestion: DO NOT INDUCE VOMITING! Get immediate medical attention.

CHRONIC HAZARDS

Repeated contact with rubberized asphalt may result in slight irritation.

Carbon Black has been classified as a Group 2B Carcinogen by IARC. However exposure to black dust will not occur with normal use of this product.

NOTICE: Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain,

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nervous system, liver or kidney damage or may cause cardiac arrhythmia. INTENTIONAL misuse of this product by deliberately inhaling its vapors may be harmful or fatal. N-HEXANE can cause peripheral neuropathy (arm and leg damage) and central nervous system damage. Prolonged and repeated exposure has been suggested as a cause of the following effects in lab animals: liver and reproductive abnormalities, kidney, spleen, lung or eye damage. May aggravate pre-existing disorders of these organs in humans. May be harmful if absorbed through skin. Overexposure to XYLENE may cause injury to Liver, Kidney and blood. Repeated overexposure to TOLUENE may cause liver damage. Toluene has been found to cause Kidney, Lung and Spleen damage in laboratory animals.

SECTION VI - STABILITY AND REACTIVITY

Stability: Product is stable under normal storage conditions
Hazardous Polymerization: Will not occur under normal conditions

INCOMPATABILITY:

Keep away from strong oxidizing agents.

CONDITIONS TO AVOID:

Keep away from heat, spark, open flames and any ignition source.

HAZARDOUS DECOMPOSITION PRODUCTS:

Will produce fumes and smoke containing carbon monoxide and dioxide under fire conditions.

SECTION VII - ACCIDENTAL RELEASE AND DISPOSAL MEASURES:

STEPS TO BE TAKEN IN CASE OF SPILL:

Eliminate all ignition sources. Ventilate confined areas. (Open windows and doors). Wear appropriate protective clothing. Cover with absorbent. Scoop into sealable safety container.

WASTE DISPOSAL METHOD:

Dispose of following local, state, and federal regulations.

SECTION VIII - EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Table with 5 columns: ACGIH TLV, ACGIH TLV-C, ACGIH STEL, OSHA STEL, OSHA PEL. Rows include PETROLEUM ASPHALT * and MINERAL SPIRITS.

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Methyl Acetate	200.00 PPM	N/est	250.00 PPM	250.00 PPM	200.00 PPM
Light Aliphatic Naphtha	300.00 PPM	N/est	N/est	500.00 PPM	300.00 PPM
XYLENE	100.00 PPM	N/est	150.00 PPM	150.00 PPM	100.00 PPM
Toluene	50.00 PPM	N/est	150.00 PPM	150.00 PPM	100.00 PPM
CARBON BLACK	3.50 mg/M3	N/est	N/est	N/est	3.50 mg/M3
n-Hexane	50.00 PPM	N/est	N/est	N/est	50.00 PPM

RESPIRATORY PROTECTION:

If TLV of the product is exceeded, a NIOSH/MSHA jointly approved air supply respirator is advised in the absence of proper ventilation. OSHA regulations also permit the use of other types of NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier for more information)

VENTILATION:

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below TLV. Ventilate during application and curing of this product.

PROTECTIVE CLOTHING:

Rubber gloves should be worn where skin contact is likely. Wear impervious clothing and shoes.

EYE PROTECTION:

Chemical goggles or safety glasses should be worn.

HANDLING AND STORAGE PRECAUTIONS:

Keep away from heat, spark and flame.
 Keep out of reach of children.
 Keep container closed while not in use.
 Do not cut or burn recepticals that have contained a solvent based product. Do not reuse this container.
 Use only in a well ventilated area.

N/A=NOT APPLICABLE N/AV=NOT AVAILABLE N/E, N/est=NOT ESTABLISHED

SECTION IX - TRANSPORT INFORMATION: (not all sizes available)

GROUND TRANSPORT (DOT) - DOMESTIC

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Units less than 5L (1.3 gallons liquid) i.e. cartridges

Proper Shipping Name: CONSUMER COMMODITY
Classification: ORM-D
DOT Label Required: ORM-D
Shipping Document: CONSUMER COMMODITY
ERG Code: 171

Units GREATER than 5L i.e. 5gal. pail, 50 gal.drum

Proper Shipping Name: ADHESIVE
Classification: CLASS 3
DOT Label Required: Flammable liquid, UN1133, Class 3
Shipping Document: ADHESIVE,3, UN1133, PG III
ERG Code: 128

AIR TRANSPORT (DOT) - DOMESTIC

Units less than 5L (1.3 gallons liquid) i.e. cartridges

Proper Shipping Name: CONSUMER COMMODITY
Classification: ORM-D
DOT Label Required: ORM-D-AIR
Shipping Document: Consumer Commodity, ORM-D
ERG Code: 171

Units GREATER than 5L i.e. 5gal. pail, 50 gal. drum

Proper Shipping Name: ADHESIVE
Classification: Class 3
DOT Label Required: Flammable Liquid, UN 1133, Class 3
Shipping Document: ADHESIVE, 3, UN1133, PG III
ERG Code: 128

AIR TRANSPORT (IATA) - INTERNATIONAL

Units less than 5 Liters i.e. one 12 PACK of 10oz (300gm) cartridges

Proper Shipping Name: CONSUMER COMMODITY
Classification: class 9
Label Required: ID8000
Shipping Document: Consumer Commodity,9, ID8000
ERG Code: 9L

Units GREATER than 5L i.e. 5gal. pail, 50 gal. drum

Proper Shipping Name: ADHESIVE
Classification: Class 3
Label Required: Flammable Liquid, UN 1133, Class 3
Shipping Document: ADHESIVE, 3, UN1133, PG III
ERG Code: 3L

MARINE - OCEAN TRANSPORT (IMDG)

Units less than 5L (1.3 gallons liquid) i.e. cartridges

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Proper Shipping Name: ADHESIVE
Classification: Class 3
Label Required: Flammable Liquid, UN1133, Class 3, Ltd. Qty.
(on ocean container only, not req. on cartons)
Shipping Document: ADHESIVE,3, UN1133, PG III, LTD.QTY.
EMS Code: F-E, S-D

Units GREATER than 5L i.e. 5gal. pail, 50 gal. drum
Proper Shipping Name: ADHESIVE
Classification: Class 3
Label Required: Flammable Liquid, UN 1133, Class 3
Shipping Document: ADHESIVE, 3, UN1133, PG III
EMS Code: F-E, S-D

SECTION X - REGULATORY INFORMATION:

SARA TITLE III SECTION 313:

This product contains the following toxic chemicals subject to the reporting requirements of Section 313 of the Emergency Planning and Community Right to Know Act of 1986 and of 40 CFR 372:

Table with 3 columns: Ingredient Name, CAS Number, Percent. Rows include XYLENE, Toluene, n-Hexane, and ETHYL BENZENE.

SARA Section 311/312 Hazard Categories met: Fire Hazard, Immediate (Acute) and Delayed (Chronic) Health Hazards.

Chemical ingredients are listed on the TSCA inventory.

WARNING: This product contains chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

DISCLAIMER:

The information contained herein is based on data available as of the date of preparation of this MSDS and which we believe to be reliable. However, no warranty is expressed or implied regarding the accuracy of the data. We shall not be responsible for the use of this information, or of any product, method, apparatus mentioned, and user must make his own investigation to determine the suitability of the information or products for his particular purpose, for the protection of the environment, and the health & safety of the users of this material.

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