M A T E R I A L S A F E T Y D A T A S H E E T

PRODUCT NAME: ROOF BARN & GUTTER GREEN HMIS CODES: H F R P
PRODUCT CODE: P 1839. 1 2 1 H

========== SECTION I - MANUFACTURER IDENTIFICATION ==========

MANUFACTURER'S NAME: GATEWAY PAINT & CHEMICAL COMPANY
ADDRESS : 2929 SMALLMAN STREET
PITTSBURGH, PA 15201-1587

EMERGENCY PHONE : 1-800-424-9300 DATE PRINTED : 12/1/2014
INFORMATION PHONE : 412-261-6642 NAME OF PREPARER : RON EXLER

========== SECTION II - HAZARDOUS INGREDIENTS/SARA III INFORMATION ==========

REPORTABLE COMPONENTS	CAS NUMBER	VAPOR PRESSURE mm Hg @ TEMP		WEIGHT PERCENT
MINERAL SPIRITS	64742-88-7	5	100 F	24.2
PEL 100 ppm				
TLV 100 ppm				
CALCIUM CARBONATE	1317-65-3	N/A	N/A	22.9
PEL 5 mg/M3 (RESPIRABLE DUST)				
TLV 10 mg/M3 (NUISANCE DUST)				
RAW LINSEED OIL	8001-26-1	NE	N/A	6.8
PEL NE				
TLV NE				
IRON (III) OXIDE	20344-49-4	N/A	N/A	4.2
PEL NE				
TLV 10 mg/M3 (NUISANCE DUST)				
PHTHALOCYANINE BLUE ALKYD DISPERSION	NE	N/A	N/A	1.
PEL 100 ppm				
TLV 100 ppm				

* Indicates toxic chemical(s) subject to the reporting requirements of section 313 of Title III and of 40 CFR 372.

========== SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS ==========

BOILING RANGE: 300 + F - 601 F + SPECIFIC GRAVITY (H2O=1): 1.16
VAPOR DENSITY: HEAVIER THAN AIR EVAPORATION RATE: SLOWER THAN ETHER
COATING V.O.C. (lb/gal) : 2.743 MATERIAL V.O.C. (lb/gal) : 2.386
COATING V.O.C. (gms/ltr): 328.66 MATERIAL V.O.C. (gms/ltr): 285.92
SOLUBILITY IN WATER: SLIGHTLY PA DEP VOC (lb VOC/gal coat solid) : 4.7
APPEARANCE AND ODOR: VISCOUS LIQUID WITH AN ODOR CHARACTERISTIC OF THE SOLVENTS LISTED IN SECTION II.

========== SECTION IV - FIRE AND EXPLOSION HAZARD DATA ==========

FLASH POINT: 113 F METHOD USED: PMCC
FLAMMABLE LIMITS IN AIR BY VOLUME- LOWER: 1 UPPER: 6

EXTINGUISHING MEDIA: FOAM, ALCOHOL FOAM, CO2, DRY CHEMICAL, WATER FOG.

SPECIAL FIREFIGHTING PROCEDURES
WATER SPRAY MAY BE INEFFECTIVE. WATER SPRAY MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. FIRE-FIGHTERS SHOULD WEAR SELF CONTAINED BREATHING APPARATUS.

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UNUSUAL FIRE AND EXPLOSION HAZARDS
PRESSURE MAY BUILD UP IN TIGHTLY CLOSED CONTAINERS EXPOSED TO FIRE WHICH MAY RESULT IN RUPTURE. KEEP CONTAINERS COOLED WITH WATER SPRAY. VAPORS MAY TRAVEL A CONSIDERABLE DISTANCE TO A SOURCE OF IGNITION OR MAY COLLECT IN A LOW AREA. SOURCES OF IGNITION INCLUDE PILOT LIGHTS, ELECTRICAL MOTORS OR INTERNAL COMBUSTION ENGINES, CIGARETTES, ETC.

========== SECTION V - REACTIVITY DATA ==========

STABILITY: STABLE

CONDITIONS TO AVOID
EXCESSIVE HEAT, POOR VENTILATION, CORROSIVE ATMOSPHERES, EXCESSIVE AGING, AND OPEN FLAMES.

INCOMPATIBILITY (MATERIALS TO AVOID)
STRONG ALKALIES, STRONG MINERAL ACIDS, OR STRONG OXIDIZING AGENTS.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS
CARBON DIOXIDE, CARBON MONOXIDE, AND TOXIC GASES.

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR.

========== SECTION VI - HEALTH HAZARD DATA ==========

INHALATION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
EFFECTS VARY AMONG INDIVIDUALS AND MAY INCLUDE HEADACHE, DIZZINESS, NAUSEA AND INCOORDINATION. VAPORS COULD IRRITATE THE NOSE AND THROAT. SEVERE OVEREXPOSURE MAY PRODUCE ANESTHESIA OR UNCONSCIOUSNESS.

SKIN AND EYE CONTACT HEALTH RISKS AND SYMPTOMS OF EXPOSURE
EYE CONTACT WILL CAUSE SEVERE IRRITATION, REDNESS, TEARING, AND BLURRED VISION. SKIN CONTACT MAY DRY AND DEFAT THE SKIN CAUSING IRRITATION OR CRACKING. PROLONGED CONTACT MAY CAUSE DERMATITIS.

SKIN ABSORPTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
SKIN CONTACT CAN DRY AND DEFAT THE SKIN CAUSING CRACKS, IRRITATION, AND DERMATITIS.

INGESTION HEALTH RISKS AND SYMPTOMS OF EXPOSURE
INGESTION MAY CAUSE GASTROINTESTINAL IRRITATION, VOMITING, NAUSEA, AND DIARRHEA. IT MAY BE HARMFUL OR FATAL IF SWALLOWED.

HEALTH HAZARDS (ACUTE AND CHRONIC)
AVOID LONG TERM AND REPEATED CONTACT. ACUTE EXPOSURE TO SOLVENT FUMES MAY CAUSE HEADACHES, DIZZINESS, NAUSEA, VOMITING, AND INCOORDINATION. REPORTS HAVE ASSOCIATED REPEATED OCCUPATIONAL EXPOSURE TO SOLVENTS WITH PERMANENT BRAIN OR NERVOUS SYSTEM DAMAGE.

CARCINOGENICITY: NTP CARCINOGEN: No IARC MONOGRAPHS: No OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
ANESTHESIA, RESPIRATORY TRACT IRRITATION, DERMATITIS, NAUSEA, AND VOMITING.

EMERGENCY AND FIRST AID PROCEDURES
INHALATION OVEREXPOSURE: REMOVE TO FRESH AIR. IF BREATHING STOPS, APPLY ARTIFICIAL RESPIRATION AND SEEK IMMEDIATE MEDICAL ATTENTION. EYE CONTACT: FLUSH WITH LARGE QUANTITIES OF WATER FOR 15 MINUTES. SKIN CONTACT: WASH THOROUGHLY WITH SOAP AND WATER AND SEE A DOCTOR. INGESTION: DO NOT INDUCE VOMITING, CAN CAUSE PNEUMONITIS AND PULMONARY EDEMA. CONTACT DOCTOR IMMEDIATELY.

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========== SECTION VII - PRECAUTIONS FOR SAFE HANDLING AND USE ==========

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED
PROVIDE MAXIMUM VENTILATION. ONLY PERSONNEL EQUIPED WITH PROPER RESPIRATORY AND SKIN AND EYE PROTECTION SHOULD BE PERMITTED IN THE AREA. REMOVE ALL SOURCES OF IGNITION. TAKE UP SPILLED MATERIAL WITH SAWDUST, VERMICULITE, OR OTHER ABSORBANT MATERIAL AND PLACE INTO CONTAINERS FOR DISPOSAL.

WASTE DISPOSAL METHOD
WASTE MATERIAL MUST BE DISPOSED OF IN ACCORDANCE WITH FEDERAL, STATE, PROVINCIAL, AND LOCAL ENVIRONMENTAL CONTROL REGULATIONS. EMPTY CONTAINERS SHOULD BE RECYCLED OR DISPOSED OF THROUGH AN APPROVED WASTE MANAGEMENT FACILITY.

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING
DO NOT EXPOSE TO HEAT, FLAME, SPARKS, OR OTHER SOURCES OF IGNITION. USE NON-SPARKING ALLOY TOOLS. DO NOT STORE ABOVE 120 DEGREES F. KEEP CONTAINERS CLOSED WHEN NOT IN USE.

OTHER PRECAUTIONS
IF THIS MATERIAL IS PART OF A MULTIPLE COMPONENT COATING SYSTEM, READ THE MATERIAL SAFETY DATA SHEET(S) FOR THE OTHER COMPONENT OR COMPONENTS BEFORE BLENDING AS THE RESULTING MIXTURE MAY HAVE THE HAZARDS OF ALL OF ITS PARTS.

========== SECTION VIII - CONTROL MEASURES ==========

RESPIRATORY PROTECTION
OVEREXPOSURE TO VAPORS MAY BE PREVENTED BY ENSURING VENTILATION CONTROLS, VAPOR EXHAUST, OR FRESH AIR ENTRY. NIOSH/MSHA-APPROVED(TC-23C-) AIR PURIFYING OR AIR SUPPLIED(TC-19C-) RESPIRATORS MAY ALSO REDUCE EXPOSURE. READ RESPIRATOR MANUFACTURER'S INSTRUCTIONS AND LITERATURE CAREFULLY TO DETERMINE THE TYPE OF AIRBORNE CONTAMINANTS AGAINST WHICH THE RESPIRATOR IS EFFECTIVE AND HOW IT IS TO BE PROPERLY FITTED.

VENTILATION
PROVIDE GOOD GENERAL MECHANICAL VENTILATION OR LOCAL EXHAUST ADEQUATE TO REDUCE THE VAPOR CONCENTRATION BELOW THE THRESHOLD LIMIT VALUE(TLV) AND THE LOWER EXPLOSION LIMIT(LEL).

PROTECTIVE GLOVES
WEAR IMPERMEABLE CHEMICAL HANDLING GLOVES FOR SKIN PROTECTION.

EYE PROTECTION
USE CHEMICAL SAFETY GLASSES, GOGGLES, AND FACE SHIELDS WHEN THE POSSIBILITY EXISTS FOR EYE CONTACT DUE TO SPLASHING OR SPRAYING LIQUID, AIRBORNE PARTICLES, OR VAPORS.

OTHER PROTECTIVE CLOTHING OR EQUIPMENT
USE IMPERMEABLE APRONS AND PROTECTIVE CLOTHING WHENEVER POSSIBLE TO PREVENT SKIN CONTACT. THE USE OF HEAD CAPS WHENEVER POSSIBLE IS STRONGLY RECOMMENDED.

WORK/HYGIENIC PRACTICES
EYE WASHES AND SAFETY SHOWERS ARE RECOMMENDED IN THE WORKPLACE.

========== SECTION IX - DISCLAIMER ==========

THE INFORMATION AND RECOMMENDATIONS CONTAINED HEREIN WERE BELIEVED TO BE ACCURATE AT THE TIME OF PREPARATION OR OBTAINED FROM SOURCES BELIEVED TO BE GENERALLY RELIABLE. GATEWAY PAINT & CHEMICAL CO. MAKES NO WARRANTY CONCERNING THEIR ACCURACY AND WILL NOT BE HELD LIABLE FOR CLAIMS RELATING TO ANY PARTY'S USE OR RELIANCE ON THIS INFORMATION.

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Gateway

Paint & Chemical Co

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(412) 261-6642

Technical Data Sheet

ALKYD TINNER'S GREEN or RED OXIDE- #1839

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TYPE	SHEEN	SPREAD	RECOMMENDED APPLICATION	THINNER	CLEAN UP	DRY TIME		
						TACK FREE	RECOAT	FULL
Alkyd	High Gloss	400-450 Sq. Ft. per gal	Brush, Roller or Spray	NONE	Mineral Spirits	6-8 Hours	24-48 Hours	10 Days

PRODUCT NAME: Metal Protective Coating Green #1839	TINNER'S GREEN is formulated as a rust protective finish on metal surfaces to reduce the high cost of exterior finishing and maintenance while retaining reasonable protective and beautifying qualities.
WHERE TO USE:	TINNER'S GREEN is well suited for all exterior metal sufaces where an initial gloss is desired. Metal siding, fences, railings and decorative and exterior metals and structural iron work are a few of its many uses.
SURFACE PREPARATION:	Surface must be clean and free of dust, grease, wax and rust. Remove all loose and scaly paint by wire brushing. Countersink and caulk nail heads with an exterior caulk. For metal surfaces, apply one coat of metal primer and allow 24 hours to dry before applying TINNER'S GREEN. (Metal primer is not needed with our TINNER'S GREEN, but for durability and longevity it is recommended) Asbestos siding must be aged at least six months to allow glaze to deteriorate. For any mildewed surface, thoroughly remove the mildew by scrubbing with a strong solution made with 1/4 gallon of household bleach such as "Clorox", 2/3 cup of detergent such as "Spic 'n Span", 2 tablespoons of trisodium phosphate and filling container to one gallon with warm water or by using a commercially available mildew remover. For either case, exercise caution. Avoid contact with skin or eyes. Do not allow bleach or solution to get on bleach sensitive clothing. Rinse thoroughly and allow to dry, painting immediately, or follow instructions on package for commercial cleaner. Applying cleaning solution and rinsing may cause underfoot surfaces to be slippery.
APPLICATION:	TINNER'S GREEN may be applied by brush, roller or spray. Do not apply late in the afternoon if there is danger of frost or heavy dew. Do not apply when surface or air temperatures are below 50°F. This product is supplied ready to apply. -DO NOT THIN- Thinning with solvent, and/or paint or lacquer thinner will make this product non-VOC compliant.

NOTE: FORMULATED WITHOUT MERCURY OR LEAD.

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RESIN TYPE:	Soya Alkyd Resin Solution
SOLIDS:	WEIGHT - 64.21% VOLUME - 51.73%
WEIGHT PER GALLON:	9.45 lbs.
VISCOSITY:	91 KU's
FLASH POINT:	113°F (TCC)
SPECULAR GLOSS:	80 % + (60°)
SAG RATING:	Pass 8.0 mils (Lenetta)
RECOMMENDED FILM THICKNESS:	WET - 4.0 to 4.5 mils DRY - 1.8 to 2.1 mils
LIGHT REFLECTANCE:	10%
CAUTIONS:	**CAUTION!** COMBUSTIBLE CONTAINS MINERAL SPIRITS 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 and flame. Do not smoke. Prevent build-up of vapors by opening all windows and doors to achieve cross-ventilation. Use only with adequate ventilation. To avoid breathing vapors or spray mist, open windows and doors or use other means to ensure fresh air entry during application and drying. If you experience eye watering, headaches or dizziness, increase fresh air or wear respiratory protection (NIOSH/ MSHA TC 23C or equivalent) or leave the area. Close container after each use. Avoid contact
VOC/VOS STATEMENT:	This product contains a maximum of 2.67 pounds VOC/VOS per gallon of coating. (320 gms/liter)
CHEMICAL ABSTRACT NUMBER:	**INGREDIENTS** — **CAS. NO.** MINERAL SPIRITS — 64742-88-7 CALCIUM CARBONATE — 1317-65-3 RAW LINSEED OIL — 8001-26-1 IRON (III) OXIDE — 1309-37-1 PHTHALOCYANINE BLUE ALKYD DISPERSION — NE
FEDERAL SPECIFICATION:	1847-1 meets TT-P-31 for performance.