

MSDS: A1019

ITEM: 6H499

DROP LOCATION: P3-309

9/22

ORDER: 0056863444

MATERIAL SAFETY DATA SHEET (MSDS)

This MSDS should be attached or kept with the respective product with which it is associated.

***** MATERIAL SAFETY DATA SHEET - A1019 *****

Associated Grainger Items

6H499

MATERIAL SAFETY DATA SHEET

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : HD RUST INHIBITIVE PR 9705604

IDENTIFICATION NUMBER: 1060 402

DATE PRINTED : 12/08/97

PRODUCT USE/CLASS : ENAMEL/ALKYD

SUPPLIER: MANUFACTURER:

RUST-OLEUM CORPORATION

RUST-OLEUM CORPORATION

11 HAWTHORN PARKWAY

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VERNON HILLS, ILLINOIS

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60061 USA

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(847) 367-7700 RUST-OLEUM CORP.

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MON.-FRI, 8:00 AM-4:30 PM

MON.-FRI, 8:00 AM-4:30 PM

PREPARER: DC, PHONE: , PREPARE DATE: 06/11/97

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

ITEM	CHEMICAL NAME	CAS NUMBER	WT/WT %
01	STODDARD SOLVENT	8052-41-3	15.0 %
02	CALCIUM CARBONATE	1317-65-3	10.0 %
03	TITANIUM DIOXIDE	13463-67-7	10.0 %
04	1,2,4-TRIMETHYLBENZENE	95-63-6	5.0 %
05	1,3,5-TRIMETHYLBENZENE	108-67-8	5.0 %
06	COBALT DRIER	136-52-7	0.1 %

EXPOSURE LIMITS

ITEM	ACGIH		OSHA		COMPANY	
	TLV-TWA	TLV-STEL	PEL-TWA	PEL-CELLING	TLV-TWA	SKIN
01	100PPM	N.E.	100PPM	N.E.	N.E.	NO
02	10MG/M3	N.E.	15MG/M3	N.E.	N.E.	NO
03	10 MG/M3	N.E.	15 MG/M3	N.E.	N.E.	NO
04	25 PPM	N.E.	N.E.	N.E.	N.E.	NO
05	25 PPM	N.E.	N.E.	N.E.	N.E.	NO
06	N.E.	N.E.	N.E.	N.E.	N.E.	NO

(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 3 - HAZARDS IDENTIFICATION

*** EMERGENCY OVERVIEW ***: HARMFUL IF SWALLOWED. CAUSES (TARGET ORGAN OR SYSTEM) DAMAGE. CAUSES EYE IRRITATION. VAPORS IRRITATING TO EYES AND RESPIRATORY TRACT. COMBUSTIBLE LIQUID AND VAPOR.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT: MAY CAUSE SKIN IRRITATION.

EFFECTS OF OVEREXPOSURE - INHALATION: HARMFUL IF INHALED. MAY CAUSE HEADACHES AND DIZZINESS.

EFFECTS OF OVEREXPOSURE - INGESTION: SUBSTANCE MAY BE HARMFUL IF SWALLOWED. ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE.

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS: REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE. CONTAINS CARBON BLACK. CHRONIC

A, LUNG FIBROSIS, AND LUNG TUMORS HAVE BEEN OBSERVED IN SOME
EXPERIMENTALLY EXPOSED
LONG PERIODS OF TIME TO EXCESSIVE CONCENTRATIONS OF CARBON BLACK AND
SEVERAL INSOLUBLE FINE DUST PARTICLES. TUMORS HAVE NOT BEEN OBSERVED IN
OTHER ANIMAL SPECIES (I.E., MOUSE AND HAMSTER) UNDER SIMILAR CIRCUMSTANCES
AND STUDY CONDITIONS. EPIDEMIOLOGICAL STUDIES OF NORTH AMERICAN WORKERS
SHOW NO EVIDENCE OF CLINICALLY SIGNIFICANT ADVERSE HEALTH EFFECTS DUE TO
OCCUPATIONAL EXPOSURE TO CARBON BLACK. CARBON BLACK IS LISTED AS A GROUP
2B-"POSSIBLY CARCINOGENIC TO HUMANS" BY IARC AND IS PROPOSED TO BE LISTED
AS A4-

"NOT CLASSIFIED AS A HUMAN CARCINOGEN" BY THE AMERICAN CONFERENCE OF
GOVERNMENTAL INDUSTRIAL HYGIENISTS. SIGNIFICANT EXPOSURE IS NOT
ANTICIPATED DURING BRUSH APPLICATION OR DRYING. RISK OF OVEREXPOSURE
DEPENDS ON DURATION AND LEVEL OF EXPOSURE TO DUST FROM REPEATED SANDING OF
SURFACES OR SPRAY MIST AND THE ACTUAL CONCENTRATION OF CARBON BLACK IN THE
FORMULA.

PRIMARY ROUTE(S) OF ENTRY: INHALATION EYE CONTACT

SECTION 4 - FIRST AID MEASURES

FIRST AID - EYE CONTACT: HOLD EYELIDS APART AND FLUSH WITH PLENTY OF WATER
FOR AT LEAST 15 MINUTES. GET MEDICAL ATTENTION.

FIRST AID - SKIN CONTACT: WASH WITH SOAP AND WATER. GET MEDICAL ATTENTION
IF IRRITATION DEVELOPS OR PERSISTS.

FIRST AID - INHALATION: REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE
ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN. GET
IMMEDIATE MEDICAL ATTENTION.

FIRST AID - INGESTION: ASPIRATION HAZARD: DO NOT INDUCE VOMITING OR GIVE

SECTION 4 - FIRST AID MEASURES

ANYTHING BY MOUTH BECAUSE THIS MATERIAL CAN ENTER THE LUNGS AND CAUSE
SEVERE LUNG DAMAGE. GET IMMEDIATE MEDICAL ATTENTION.

SECTION 5 - FIRE FIGHTING MEASURES

FLASH POINT: 105 F LOWER EXPLOSIVE LIMIT: 0.9 %
UPPER EXPLOSIVE LIMIT: 6.4 %

AUTOIGNITION TEMPERATURE: NE

EXTINGUISHING MEDIA: DRY CHEMICAL FOAM WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS: KEEP CONTAINERS TIGHTLY CLOSED.

SPECIAL FIREFIGHTING PROCEDURES: WATER MAY BE USED TO COOL CLOSED
CONTAINERS TO PREVENT PRESSURE BUILDUP AND POSSIBLE AUTOIGNITION OR
EXPLOSION. EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED: CONTAIN SPILLED
LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS
SANDUST. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL
REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

SECTION 7 - HANDLING AND STORAGE

HANDLING: WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE EATING.
FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE
IT MAY RETAIN PRODUCT RESIDUES. AVOID BREATHING VAPOR OR MIST. AVOID
CONTACT WITH EYES.

STORAGE: KEEP CONTAINERS TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL
EQUIPMENT, SPARKS AND OPEN FLAME. KEEP AWAY FROM HEAT, SPARKS, FLAME AND
SOURCES OF IGNITION. KEEP CONTAINER CLOSED WHEN NOT IN USE.

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING CONTROLS: USE PROCESS ENCLOSURES, LOCAL EXHAUST VENTILATION,
OR OTHER ENGINEERING CONTROLS TO CONTROL AIRBORNE LEVELS BELOW RECOMMENDED
EXPOSURE LIMITS. PREVENT BUILD-UP OF VAPORS BY OPENING ALL DOORS AND
WINDOWS TO ACHIEVE CROSS-VENTILATION.

RESPIRATORY PROTECTION: A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA

SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION

1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE
CONDITIONS WARRANT A RESPIRATOR'S USE. A NIOSH/MSHA APPROVED AIR PURIFYING

WITH AN ORGANIC VAPOR CARTRIDGE OR CANISTER MAY BE PERMISSIBLE
CERTAIN CIRCUMSTANCES WHERE AIRBORNE CONCENTRATIONS ARE EXPECTED TO
EXCEED EXPOSURE LIMITS. PROTECTION PROVIDED BY AIR PURIFYING RESPIRATORS
IS LIMITED. USE A POSITIVE PRESSURE AIR SUPPLIED RESPIRATOR IF THERE IS
ANY POTENTIAL FOR AN UNCONTROLLED RELEASE, EXPOSURE LEVELS ARE NOT KNOWN,
OR ANY OTHER CIRCUMSTANCES WHERE AIR PURIFYING RESPIRATORS MAY NOT PROVIDE
ADEQUATE PROTECTION.

SKIN PROTECTION: USE IMPERVIOUS GLOVES TO PREVENT SKIN CONTACT AND
ABSORPTION OF THIS MATERIAL THROUGH THE SKIN. NITRILE OR NEOPRENE GLOVES
MAY AFFORD ADEQUATE SKIN PROTECTION.

EYE PROTECTION: USE SAFETY EYEWEAR DESIGNED TO PROTECT AGAINST SPLASH OF
LIQUIDS.

OTHER PROTECTIVE EQUIPMENT: REFER TO SAFETY SUPERVISOR OR INDUSTRIAL
HYGIENIST FOR FURTHER INFORMATION REGARDING PERSONAL PROTECTIVE EQUIPMENT
AND ITS APPLICATION.

HYGIENIC PRACTICES: WASH THOROUGHLY WITH SOAP AND WATER BEFORE EATING,
DRINKING OR SMOKING.

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

BOILING RANGE : 318 - 383 F VAPOR DENSITY : IS HEAVIER THAN AIR
ODOR : SOLVENT ODOR THRESHOLD : NE
APPEARANCE : LIQUID EVAPORATION RATE: IS SLOWER THAN ETHER
SOLUBILITY IN H2O : SLIGHT
FREEZE POINT : SPECIFIC GRAVITY: 1.3816
VAPOR PRESSURE : ND PH \leq 0.0 % : ND
PHYSICAL STATE : LIQUID VISCOSITY : >100 SUS
COEFFICIENT OF WATER/OIL DISTRIBUTION: NE
(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID: AVOID ALL POSSIBLE SOURCES OF IGNITION.
INCOMPATIBILITY: INCOMPATIBLE WITH STRONG OXIDIZING AGENTS, STRONG ACIDS
AND STRONG ALKALIES.
HAZARDOUS DECOMPOSITION PRODUCTS: BY OPEN FLAME, CARBON MONOXIDE AND
CARBON DIOXIDE.
HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.

SECTION 10 - STABILITY AND REACTIVITY

STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

SECTION 11 - TOXICOLOGICAL PROPERTIES

COMPONENT TOXICOLOGICAL INFORMATION:

CHEMICAL NAME	LD50	LC50
STODDARD SOLVENT	4900MG/KG (RAT)	N.E.
CALCIUM CARBONATE	NONE	NONE
TITANIUM DIOXIDE	N.A.	N.A.
1,2,4-TRIMETHYLBENZENE	N.E.	RAT 18G/M ³ 4HR
1,3,5-TRIMETHYLBENZENE	RAT 1303MG/KG	RAT 24MG/M ³ 4HR
COBALT DRIER	NA	NA

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

SECTION 13 - DISPOSAL CONSIDERATIONS

DISPOSAL METHOD: DISPOSE OF MATERIAL IN ACCORDANCE TO LOCAL, STATE AND
FEDERAL REGULATIONS AND ORDINANCES. DO NOT ALLOW TO ENTER STORM DRAINS OR
SEWER SYSTEMS.

SECTION 14 - TRANSPORTATION INFORMATION

NO TRANSPORTATION INFORMATION IS AVAILABLE.

SECTION 15 - REGULATORY INFORMATION

U.S. FEDERAL REGULATIONS: AS FOLLOWS -

OSHA: HAZARDOUS BY DEFINITION OF HAZARD COMMUNICATION STANDARD (29 CFR
1910.1200)

SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:

THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA HAZARD CATEGORIES

AND UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND
RTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER
LICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:

IMMEDIATE HEALTH HAZARD CHRONIC HEALTH HAZARD FIRE HAZARD

SARA SECTION 313:

THIS PRODUCT CONTAINS THE FOLLOWING SUBSTANCES SUBJECT TO THE REPORTING
REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENTS AND
REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER	WT/WT % IS LESS THAN
1,2,4-TRIMETHYLBENZENE	95-63-6	5.0 %
XYLENE	1330-20-7	1.0 %
ETHYLBENZENE	100-41-4	0.1 %

TOXIC SUBSTANCES CONTROL ACT:

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICAL SUBSTANCES SUBJECT TO THE
REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES:

CHEMICAL NAME	CAS NUMBER
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NO INFORMATION IS AVAILABLE.

U.S. STATE REGULATIONS: AS FOLLOWS -

NEW JERSEY RIGHT-TO-KNOW:

THE FOLLOWING MATERIALS ARE NON-HAZARDOUS, BUT ARE AMONG THE TOP FIVE
COMPONENTS IN THIS PRODUCT:

CHEMICAL NAME	CAS NUMBER
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MAGNESIUM SILICATE HYDRATE	14807-96-6
ALKYD RESIN	66070-60-8
ALKYD RESIN-TRADE SECRET	MIXTURE

PENNSYLVANIA RIGHT-TO-KNOW:

THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT
GREATER THAN 3%:

CHEMICAL NAME	CAS NUMBER
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MAGNESIUM SILICATE HYDRATE	14807-96-6
ALKYD RESIN	66070-60-8
ALKYD RESIN-TRADE SECRET	MIXTURE
CHEMICAL COMPOSITE	66402-68-4
HYDRATED LIGHT DISTILLATE	64742-47-8

SECTION 15 - REGULATORY INFORMATION

CALIFORNIA PROPOSITION 65:

WARNING: THE CHEMICAL(S) NOTED BELOW AND CONTAINED IN THIS PRODUCT, ARE
KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, BIRTH DEFECTS OR OTHER
REPRODUCTIVE HARM:

CHEMICAL NAME	CAS NUMBER
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NO PROPOSITION 65 CHEMICALS EXIST IN THIS PRODUCT.

INTERNATIONAL REGULATIONS: AS FOLLOWS -

CANADIAN WHMIS: THIS MSDS HAS BEEN PREPARED IN COMPLIANCE WITH CONTROLLED
PRODUCT REGULATIONS EXCEPT FOR USE OF THE 16 HEADINGS.

CANADIAN WHMIS CLASS: NO INFORMATION AVAILABLE.

SECTION 16 - OTHER INFORMATION

HMS RATINGS - HEALTH: FLAMMABILITY: REACTIVITY:

PREVIOUS MSDS REVISION DATE: 04/10/97

LEGEND: N.A. - NOT APPLICABLE, N.E. - NOT ESTABLISHED,

N.D. - NOT DETERMINED

: NO INFORMATION.

THE INFORMATION CONTAINED ON THIS MSDS HAS BEEN CHECKED AND SHOULD BE
ACCURATE. HOWEVER, IT IS THE RESPONSIBILITY OF THE USER TO COMPLY WITH ALL
FEDERAL, STATE, AND LOCAL LAWS AND REGULATIONS.