

5/31/05

ITEM: 6A931 - PRIMER 1 G

ORDER: 0196661772

DROP LOCATION: P1_901

MSDS: A5384

MATERIAL SAFETY DATA SHEET (MSDS)

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

UNUSUAL SAFETY DATA SHEET - A5384

ated Grainger Items
6000, 6H091, 6A931

MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE: 1-847-367-7700
JST-OLEUM CORP.
WWW.RUSTOLEUM.COM

SECTION 1 - CHEMICAL PRODUCT/COMPANY INFORMATION

PRODUCT NAME:
JST-OLEUM HIGH PERFORMANCE INDUSTRIAL ENAMEL SHOP COAT PRIMERS
IDENTIFICATION NUMBER: 7069300, 7069402, 7086100, 7086300, 7086402
PRODUCT USE/CLASS: PRIMER

APPLIER:
JST-OLEUM CORPORATION
1 HAWTHORN PARKWAY
ERMON HILLS, IL 60061
USA

MANUFACTURER:
JST-OLEUM CORPORATION
1 HAWTHORN PARKWAY
ERMON HILLS, IL 60061
USA

PREPARED BY: DEPARTMENT, REGULATORY

REVISION DATE: 05/05/2003

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT % LESS THAN	ACGIH TLV-TWA
QUINCESIUM SILICATE	14807-96-6	30.0	10 MG/M3
IPHATIC HYDROCARBON	MIXTURE	25.0	300 PPM
KYD RESIN SOLUTION	PROPRIETARY	25.0	
ODDARD SOLVENTS	8052-41-3	25.0	100 PPM
IPHATIC PETROLEUM DISTILLATES	64742-89-8	15.0	400 PPM
UTYL ACETATE	123-86-4	10.0	150 PPM
TANIUM DIOXIDE	13463-67-7	5.0	10 MG/M3
OMATIC HYDROCARBON	64742-95-6	5.0	N.E.
2,4-TRIMETHYLBENZENE	95-63-6	5.0	25 PPM

CHEMICAL NAME	ACGIH TLV-STEL	OSHA PEL-TWA	OSHA PEL-CEILING
QUINCESIUM SILICATE	N.E.	15 MG/M3	N.E.
IPHATIC HYDROCARBON	N.E.	300 PPM	N.E.
KYD RESIN SOLUTION			
ODDARD SOLVENTS	N.E.	500 PPM	N.E.
IPHATIC PETROLEUM DISTILLATES	N.E.	400 PPM	N.E.
BUTYL ACETATE	N.E.	150 PPM	N.E.
TANIUM DIOXIDE	N.E.	10 MG/M3	N.E.
OMATIC HYDROCARBON	N.E.	N.E.	N.E.
2,4-TRIMETHYLBENZENE	N.E.	N.E.	N.E.

SECTION 3 - HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW:
GH VAPOR CONCENTRATIONS CAN IRRITATE EYES, NOSE AND RESPIRATORY PASSAGES.
USES NOSE AND THROAT IRRITATION. HARMFUL IF INHALED. MAY AFFECT THE BRAIN
NERVOUS SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. FLAMMABLE LIQUID
ID VAPOR. HARMFUL IF SWALLOWED. CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:
PROLONGED OR REPEATED SKIN CONTACT MAY CAUSE IRRITATION.

EFFECTS OF OVEREXPOSURE - INHALATION:
GH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND
INGS. MAY CAUSE HEADACHES AND DIZZINESS. AVOID BREATHING VAPORS OR MISTS.
HARMFUL IF INHALED.

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

EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:
LONG TERM EXPOSURE TO THIS PRODUCT MAY BE ASSOCIATED WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

PRIMARY ROUTE(S) OF ENTRY:
SKIN CONTACT, SKIN ABSORPTION, 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 VOMITTING OR GIVE 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: 51 F (SETAFLASH)

LOWER EXPLOSIVE LIMIT: 0.9%
UPPER EXPLOSIVE LIMIT: 7.0%

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:
VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. VAPORS MAY FORM
EXPLOSIVE MIXTURES WITH AIR. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS
AND OPEN FLAME.

SPECIAL FIRE FIGHTING 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 IF MATERIAL IS RELEASED OR SPILLED:
ELIMINATE ALL IGNITION SOURCES; USE EXPLOSION-PROOF EQUIPMENT. PLACE
MATERIAL IN A CONTAINER AND DISPOSE OF ACCORDING TO LOCAL, PROVINCIAL, STATE
AND FEDERAL REGULATIONS. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT
USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST.

SECTION 7 - HANDLING AND STORAGE

HANDLING:
WASH THOROUGHLY AFTER HANDLING. WASH HANDS BEFORE EATING. USE WITH ADEQUATE
VENTILATION. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS
EMPTED BECAUSE IT MAY RETAIN PRODUCT RESIDUES.

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

RESPIRATORY PROTECTION:
A NIOSH/MSHA APPROVED AIR PURIFYING RESPIRATOR WITH AN ORGANIC VAPOR
CARTRIDGE OR CANISTER MAY BE PERMISSIBLE UNDER 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. A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA 1910.134 AND
ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS
WARRANT A RESPIRATOR'S USE.

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

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: 240-285 F

VAPOR DENSITY: HEAVIER THAN AIR

ODOR: SOLVENT LIKE

ODOR THRESHOLD: ND

1 of 2

3.15.05

APPEARANCE: LIQUID
 EVAPORATION RATE: SLOWER THAN ETHER
 SOLUBILITY IN H2O: SLIGHT
 FREEZE POINT: ND
 SPECIFIC GRAVITY: 1.2600
 VAPOR PRESSURE:
 PH: NE
 PHYSICAL STATE: LIQUID
 (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:
 WHEN HEATED TO DECOMPOSITION IT EMITS ACRID SMOKE AND IRRITATING FUMES. BY OPEN FLAME, CARBON MONOXIDE AND CARBON DIOXIDE.
 HAZARDOUS POLYMERIZATION: WILL NOT OCCUR UNDER NORMAL CONDITIONS.
 STABILITY: THIS PRODUCT IS STABLE UNDER NORMAL STORAGE CONDITIONS.

SECTION 11 - TOXICOLOGICAL INFORMATION

PRODUCT LD50: ND
 PRODUCT LC50: ND

CHEMICAL NAME	LD50	LC50
MAGNESIUM SILICATE	N.D.	TCLO: 11 MG/M3 INH.
ALIPHATIC HYDROCARBON	N.D.	N.D.
ALKYD RESIN SOLUTION		
STANDARD SOLVENTS	N.D.	N.D.
ALIPHATIC PETROLEUM DISTILLATES	N.D.	N.D.
T-BUTYL ACETATE	13100 MG/KG (ORAL, RAT)	2000 PPM (INH 4HR, RAT)R
TITANIUM DIOXIDE	>7500 MG/KG	N.D.
AROMATIC HYDROCARBON	N.D.	N.D.
1,2,4-TRIMETHYLBENZENE	N.D.	18 G/M3 (RAT, 4HR)

SECTION 12 - ECOLOGICAL INFORMATION

ECOLOGICAL INFORMATION: PRODUCT IS A MIXTURE OF LISTED COMPONENTS.

SECTION 13 - DISPOSAL INFORMATION

DISPOSAL INFORMATION:
 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

DOT PROPER SHIPPING NAME: PAINT
 DOT TECHNICAL NAME:
 DOT HAZARD CLASS: 3
 DOT UN/NA NUMBER: UN 1263
 PACKING GROUP: III
 HAZARD SUBCLASS:
 DOT GUIDE PAGE: 127

SECTION 15 - REGULATORY INFORMATION

RCRA - SARA HAZARD CATEGORY:
 THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" FORMULATED UNDER SECTIONS 311 AND 312 OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 (SARA TITLE III) AND IS CONSIDERED, UNDER APPLICABLE DEFINITIONS, TO MEET THE FOLLOWING CATEGORIES:
 IMMEDIATE HEALTH HAZARD, CHRONIC HEALTH HAZARD, FIRE HAZARD
 SARA SECTION 313:
 LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF SECTION 313 OF TITLE III OF THE SUPERFUND AMENDMENT AND REAUTHORIZATION ACT OF 1986 AND 40 CFR PART 372:

CHEMICAL NAME	CAS NUMBER
AROMATIC HYDROCARBON	64742-95-6
1,2,4-TRIMETHYLBENZENE	95-63-6

TOXIC SUBSTANCES CONTROL ACT:
 LISTED BELOW ARE THE SUBSTANCES (IF ANY) CONTAINED IN THIS PRODUCT THAT ARE SUBJECT TO THE REPORTING REQUIREMENTS OF TSCA 12(B) IF EXPORTED FROM THE UNITED STATES: NONE KNOWN

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
ALKYD RESIN SOLUTION	PROPRIETARY

PENNSYLVANIA RIGHT-TO-KNOW:
 THE FOLLOWING NON-HAZARDOUS INGREDIENTS ARE PRESENT IN THE PRODUCT AT GREATER THAN 3%.

CHEMICAL NAME	CAS NUMBER
ALKYD RESIN SOLUTION	PROPRIETARY
IRON OXIDE	1309-37-1
CALCIUM BOROSILICATE	PROPRIETARY

CALIFORNIA PROPOSITION 65:

WARNING:
 THE FOLLOWING INGREDIENTS PRESENT IN THE PRODUCT ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER:

CHEMICAL NAME	CAS NUMBER
MICROCRYSTALLINE SILICA	14808-60-7
LEAD COMPOUNDS	NOT SPECIFIED
ARSENIC COMPOUNDS	NOT SPECIFIED

BENZENE	71-43-2
CADMIUM COMPOUNDS	NOT SPECIFIED
BERYLLIUM COMPOUNDS	NOT SPECIFIED

WARNING:
 THE FOLLOWING INGREDIENTS PRESENT IN THE PRODUCT ARE KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS, OR OTHER REPRODUCTIVE HAZARDS.

CHEMICAL NAME	CAS NUMBER
TOLUENE	108-88-3
LEAD COMPOUNDS	NOT SPECIFIED
ARSENIC COMPOUNDS	NOT SPECIFIED

BENZENE	71-43-2
CADMIUM COMPOUNDS	NOT SPECIFIED

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

CANADIAN WHMIS CLASS: E2 D2B

SECTION 16 - OTHER INFORMATION

HMIS RATINGS:
 HEALTH: 2*
 FLAMMABILITY: 3
 REACTIVITY: 0
 PERSONAL PROTECTION: X

VOLATILE ORGANIC COMPOUNDS, G/L: <500

REASON FOR REVISION:

LEGEND:
 N.A. - NOT APPLICABLE
 N.E. - NOT ESTABLISHED
 N.D. - NOT DETERMINED

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.