

ITEM: 6A378 - Marking Paint Fluorescent Orange 1**MSDS: B0841****ORDER: 0070864389****LP NUMBER: U441642425****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 - B0841Associated Grainger Items
6A378, 4CH78, 5H915

MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE: 1-847-367-7700

SHEET RUST-OLEUM CORP.

WWW.RUSTOLEUM.COM

SECTION 1 - CHEMICAL PRODUCT/COMPANY INFORMATIONPRODUCT NAME:
RUST-OLEUM HIGH PERFORMANCE INDUSTRIAL ENAMEL AEROSOL FLUORESCENT MARKING
SPRAYS

REVISION DATE: 06/21/2005

IDENTIFICATION NUMBER: V2333838, V2355838, V2358838

PRODUCT USE/CLASS: MARKING PAINT/AEROSOL

SUPPLIER:
RUST-OLEUM CORPORATION
11 HAWTHORN PARKWAY
VERNON HILLS, IL 60061
USAMANUFACTURER:
RUST-OLEUM CORPORATION
11 HAWTHORN PARKWAY
VERNON HILLS, IL 60061
USA

PREPARER: DEPARTMENT, REGULATORY

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

CHEMICAL NAME	CAS NUMBER	WEIGHT % LESS THAN	ACGIH TLV- TWA	ACGIH TLV- STEL
LIQUEFIED PETROLEUM GAS	68476-86-8	30.0	1000 PPM	N.E.
ALIPHATIC PETROLEUM DISTILLATES	64742-89-8	15.0	400 PPM	N.E.
TOLUENE	108-88-3	10.0	50 PPM	150 PPM
POLYMER ANCHORED GREEN DYE DISPERSION	MIXTURE	10.0	N.E.	N.E.
NAPHTHA	64742-47-8	5.0	100 PPM	N.E.
ETHYLBENZENE	100-41-4	1.0	100 PPM	125 PPM
CHEMICAL NAME	OSHA PEL-TWA	OSHA PEL-CEILING		
LIQUEFIED PETROLEUM GAS	1000 PPM	N.E.		
ALIPHATIC PETROLEUM DISTILLATES	400 PPM	N.E.		
TOLUENE	200 PPM	300 PPM		
POLYMER ANCHORED GREEN DYE DISPERSION	N.E.	N.E.		
NAPHTHA	N.E.	N.E.		
ETHYLBENZENE	100 PPM	N.E.		

SECTION 3 - HAZARDS IDENTIFICATION**EMERGENCY OVERVIEW:**CONTENTS UNDER PRESSURE. HARMFUL IF INHALED. MAY AFFECT THE BRAIN OR NERVOUS
SYSTEM CAUSING DIZZINESS, HEADACHE OR NAUSEA. VAPORS MAY CAUSE FLASH FIRE OR
EXPLOSION. EXTREMELY FLAMMABLE LIQUID AND VAPOR. HARMFUL IF SWALLOWED.

EFFECTS OF OVEREXPOSURE - EYE CONTACT: CAUSES EYE IRRITATION.

EFFECTS OF OVEREXPOSURE - SKIN CONTACT:
PROLONGED OR REPEATED CONTACT MAY CAUSE SKIN IRRITATION. SUBSTANCE MAY CAUSE
SLIGHT SKIN IRRITATION.EFFECTS OF OVEREXPOSURE - INHALATION:
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES, NOSE, THROAT AND
LUNGS. AVOID BREATHING VAPORS OR MISTS. HIGH GAS, VAPOR, MIST OR DUST
CONCENTRATIONS MAY BE HARMFUL IF INHALED. HARMFUL IF INHALED.EFFECTS OF OVEREXPOSURE - INGESTION:
ASPIRATION HAZARD IF SWALLOWED; CAN ENTER LUNGS AND CAUSE DAMAGE. SUBSTANCE
MAY BE HARMFUL IF SWALLOWED.EFFECTS OF OVEREXPOSURE - CHRONIC HAZARDS:
IARC LISTS ETHYLBENZENE AS A POSSIBLE HUMAN CARCINOGEN (GROUP 2B). MAY CAUSE
CENTRAL NERVOUS SYSTEM DISORDER (E.G., NARCOSIS INVOLVING A LOSS OF
COORDINATION, WEAKNESS, FATIGUE, MENTAL CONFUSION, AND BLURRED VISION)
AND/OR DAMAGE. REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OCCUPATIONAL
OVEREXPOSURE TO SOLVENTS WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.
OVEREXPOSURE TO XYLENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER
ABNORMALITIES, KIDNEY, LUNG, SPLEEN, EYE AND BLOOD DAMAGE AS WELL AS
REPRODUCTIVE DISORDERS. EFFECTS IN HUMANS, DUE TO CHRONIC OVEREXPOSURE, HAVE
INCLUDED LIVER, CARDIAC ABNORMALITIES AND NERVOUS SYSTEM DAMAGE.
OVEREXPOSURE TO TOLUENE IN LABORATORY ANIMALS HAS BEEN ASSOCIATED WITH LIVER
ABNORMALITIES, KIDNEY, LUNG AND SPLEEN DAMAGE. EFFECTS IN HUMANS HAVE

INCLUDED LIVER AND CARDIAC ABNORMALITIES.

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:
IF YOU EXPERIENCE DIFFICULTY IN BREATHING, LEAVE THE AREA TO OBTAIN FRESH
AIR. IF CONTINUED DIFFICULTY IS EXPERIENCED, GET MEDICAL ASSISTANCE
IMMEDIATELY.FIRST AID - INGESTION:
ASPIRATION HAZARD:
DO NOT INDUCE VOMITING 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 (SETAFLASH): -156 F

LOWER EXPLOSIVE LIMIT: 0.9 %
UPPER EXPLOSIVE LIMIT: 11.2 %

EXTINGUISHING MEDIA: DRY CHEMICAL, FOAM, WATER FOG

UNUSUAL FIRE AND EXPLOSION HAZARDS:
PERFORATION OF THE PRESSURIZED CONTAINER MAY CAUSE BURSTING OF THE CAN.
WATER SPRAY MAY BE INEFFECTIVE. CLOSED CONTAINERS MAY EXPLODE WHEN EXPOSED
TO EXTREME HEAT. VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN
TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. KEEP CONTAINERS TIGHTLY
CLOSED. FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND
VAPOR! ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN FLAME.SPECIAL FIREFIGHTING PROCEDURES:
EVACUATE AREA AND FIGHT FIRE FROM A SAFE DISTANCE.**SECTION 6 - ACCIDENTAL RELEASE MEASURES**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:
REMOVE ALL SOURCES OF IGNITION, VENTILATE AREA AND REMOVE WITH INERT
ABSORBENT AND NON-SPARKING TOOLS. DISPOSE OF ACCORDING TO LOCAL, STATE
(PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.
CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS
SUCH AS SAWDUST.**SECTION 7 - HANDLING AND STORAGE**HANDLING:
AVOID BREATHING VAPOR OR MIST. USE ONLY IN A WELL-VENTILATED AREA. WASH
HANDS BEFORE EATING. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER
IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES. WASH THOROUGHLY AFTER
HANDLING.STORAGE:
DO NOT STORE ABOVE 120 DEG. F. STORE LARGE QUANTITIES IN BUILDINGS DESIGNED
AND PROTECTED FOR STORAGE OF NFPA CLASS I FLAMMABLE LIQUIDS. KEEP CONTAINERS
TIGHTLY CLOSED. ISOLATE FROM HEAT, ELECTRICAL EQUIPMENT, SPARKS AND OPEN
FLAME. CONTENTS UNDER PRESSURE. DO NOT EXPOSE TO HEAT OR STORE ABOVE 120
DEG. F.**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION****ENGINEERING CONTROLS:**USE EXPLOSION-PROOF VENTILATION EQUIPMENT. 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 1910.134 AND ANSI Z88.2
REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A
RESPIRATOR'S USE. 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.**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: -34 - 415 F
VAPOR DENSITY: HEAVIER THAN AIR
ODOR: SOLVENT LIKE
ODOR THRESHOLD: ND
APPEARANCE: LIQUID
EVAPORATION RATE: FASTER THAN ETHER
SOLUBILITY IN H2O: SLIGHT
FREEZE POINT: ND
SPECIFIC GRAVITY: 0.8700
VAPOR PRESSURE: ND
pH: NE
PHYSICAL STATE: LIQUID
(SEE SECTION 16 FOR ABBREVIATION LEGEND)

SECTION 10 - STABILITY AND REACTIVITY

CONDITIONS TO AVOID:
AVOID TEMPERATURES ABOVE 120 DEG. F. 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
LIQUEFIED PETROLEUM GAS N.D. N.D.
ALIPHATIC PETROLEUM DISTILLATES N.D. N.D.
TOLUENE N.D. N.D.
POLYMER ANCHORED GREEN DYE DISPERSION N.D. N.D.
NAPHTHA >25 ML/KG (ORAL, RAT) >700 PPM (INH 4 HR, RAT)
ETHYLBENZENE 3500 MG/KG (ORAL, RAT) N.D.

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: AEROSOL
PACKING GROUP:
DOT TECHNICAL NAME:
HAZARD SUBCLASS:
DOT HAZARD CLASS: 2.1
RESP. GUIDE PAGE: 126
DOT UN/NA NUMBER: UN1950

SECTION 15 - REGULATORY INFORMATION

CERCLA - SARA HAZARD CATEGORY:
THIS PRODUCT HAS BEEN REVIEWED ACCORDING TO THE EPA "HAZARD CATEGORIES" PROMULGATED 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
TOLUENE	108-88-3
ETHYLBENZENE	100-41-4

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
WATER	7732-18-5
CALCIUM CARBONATE	1317-65-3

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

CHEMICAL NAME	CAS NUMBER
WATER	7732-18-5
CALCIUM CARBONATE	1317-65-3
BARIUM SULFATE	7727-43-7

POLYMER ANCHORED ORANGE DYE DISPERSION MIXTURE

POLYMER ANCHORED ORANGE DYE DISPERSION MIXTURE

MODIFIED ALKYD PROPRIETARY

CALIFORNIA PROPOSITION 65:

WARNING!
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN BY THE STATE OF CALIFORNIA TO CAUSE CANCER.

WARNING!
THIS PRODUCT CONTAINS A CHEMICAL(S) KNOWN TO THE STATE OF CALIFORNIA TO CAUSE BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

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: AB5, D2A, D2B

SECTION 16 - OTHER INFORMATION

HMIS RATINGS:
HEALTH: 2*
FLAMMABILITY: 4
REACTIVITY: 0
PERSONAL PROTECTION: X

VOLATILE ORGANIC COMPOUNDS, G/L: 540 MAX

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.