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MSDS

Common Name: HIGH PERFORMANCE INDUSTRIAL ENAMEL AEROSOL - METALLICS (HARD HAT), 209565, 20971

Manufacturer: RUST-OLEUM

MSDS Revision Date: 11/21/2006

Grainger Item Number(s): 2FP61, 3UP87, 3UP88, 4CY48, 4CY49, 5H896, 5W174

Manufacturer Model Number(s):

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MATERIAL SAFETY DATA SHEET

24 HOUR ASSISTANCE: 1-847-367-7700

RUST-OLEUM CORP.

WWW.RUSTOLEUM.COM

SECTION 1 - CHEMICAL PRODUCT/COMPANY INFORMATION



PRODUCT NAME:

RUST-OLEUM HIGH PERFORMANCE INDUSTRIAL ENAMEL AEROSOL - METALLICS (HARD HAT)

IDENTIFICATION NUMBER:

209565, 209719, 209750, 209751, 209752, V2115838, V2118838, V2119838

PRODUCT USE/CLASS: METALLIC/AEROSOL

SUPPLIER:

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

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

PREPARER: REGULATORY DEPARTMENT

REVISION DATE: 11/21/2006

SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS



CHEMICAL NAME	CAS NUMBER	WEIGHT % LESS THAN	ACGIH TLV-TWA	ACGIH TLV-STEL	OSHA PEL-TWA
TOLUENE	108-88-3	35.0	50 PPM	150 PPM	200 PPM
LIQUEFIED PETROLEUM GAS	68476-86-8	35.0	1000 PPM	N.E.	1000 PPM
ACETONE	67-64-1	30.0	500 PPM	750 PPM	750 PPM
N-BUTYL ACETATE	123-86-4	15.0	150 PPM	200 PPM	150 PPM
XYLENE	1330-20-7	10.0	100 PPM	150 PPM	100 PPM
STEEL FLAKE ALLOY	MIXTURE	10.0	N.E.	N.E.	N.E.
MAGNESIUM SILICATE	14807-96-6	10.0	10 MG/M3	N.E.	15 MG/M3
ALUMINUM FLAKE	7429-90-5	10.0	10 MG/M3	N.E.	15 MG/M3
STODDARD SOLVENTS	8052-41-3	5.0	100 PPM	N.E.	500 PPM
ETHYLBENZENE	100-41-4	5.0	100 PPM	125 PPM	100 PPM
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2	5.0	20 PPM	N.E.	50 PPM
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	108-65-6	5.0	N.E.	N.E.	30 P.P.M. (SUPPLIER RECOMMENDATION)
TITANIUM DIOXIDE	13463-67-7	5.0	10 MG/M3	N.E.	10 MG/M3

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:
MAY BE HARMFUL IF ABSORBED THROUGH SKIN. 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: -156 F (SETAFLASH)

LOWER EXPLOSIVE LIMIT: 0.7%
UPPER EXPLOSIVE LIMIT: 32.5%

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. FLASH POINT IS LESS THAN 20 DEG. F. - EXTREMELY FLAMMABLE LIQUID AND VAPOR! VAPORS MAY FORM EXPLOSIVE MIXTURES WITH AIR. VAPORS CAN TRAVEL TO A SOURCE OF IGNITION AND FLASH BACK. KEEP CONTAINERS TIGHTLY CLOSED. 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. CONTAIN SPILLED LIQUID WITH SAND OR EARTH. DO NOT USE COMBUSTIBLE MATERIALS SUCH AS SAWDUST. DISPOSE OF ACCORDING TO LOCAL, STATE (PROVINCIAL) AND FEDERAL REGULATIONS. DO NOT INCINERATE CLOSED CONTAINERS.

SECTION 7 - HANDLING AND STORAGE



HANDLING:

WASH HANDS BEFORE EATING. USE ONLY IN A WELL-VENTILATED AREA. WASH THOROUGHLY AFTER HANDLING. AVOID BREATHING VAPOR OR MIST. FOLLOW ALL MSDS/LABEL PRECAUTIONS EVEN AFTER CONTAINER IS EMPTIED BECAUSE IT MAY RETAIN PRODUCT RESIDUES.

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:

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. USE EXPLOSION-PROOF VENTILATION EQUIPMENT.

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: -34 - 900 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: 0.7520

VAPOR PRESSURE:

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. FLAMMABLE HYDROGEN GAS WILL EVOLVE WHEN PRODUCT COMES IN CONTACT WITH WATER OR DAMP AIR. HEAT WILL BE GENERATED. THE AMOUNT OF HEAT GENERATED WILL DEPEND UPON THE VOLUME OF MATERIAL IN CONTACT. 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
TOLUENE	N.D.	N.D.
LIQUEFIED PETROLEUM GAS	N.D.	N.D.
ACETONE	N.D.	N.D.
N-BUTYL ACETATE	13100 MG/KG (ORAL, RAT)	2000 PPM (INH 4 HR, RAT)
XYLENE	N.D.	N.D.
STEEL FLAKE ALLOY	N.D.	N.D.
MAGNESIUM SILICATE	N.D.	TCLO: 11 MG/M3 INH.
ALUMINUM FLAKE	N.D.	N.D.
STODDARD SOLVENTS	N.D.	N.D.
ETHYLBENZENE	3500 MG/KG (ORAL, RAT)	N.D.
ETHYLENE GLYCOL MONOBUTYL ETHER	1519 MG/KG (ORAL, MOUSE)	700 PPM (INH 7 HR, RAT)
PROPYLENE GLYCOL MONOMETHYL ETHER ACETATE	>10000 MG/KG (ORAL, RAT)	N.D.
TITANIUM DIOXIDE	>7500 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
DOT TECHNICAL NAME:
DOT HAZARD CLASS: 2.1
DOT UN/NA NUMBER: UN1950

PACKING GROUP:
HAZARD SUBCLASS:
RESP. GUIDE PAGE: 126

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
XYLENE	1330-20-7
STEEL FLAKE ALLOY	MIXTURE
ETHYLBENZENE	100-41-4
ETHYLENE GLYCOL MONOBUTYL ETHER	111-76-2

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
C-9 HYDROCARBON RESIN UNSATURATED	71302-83-5
ALKYD RESIN	MIXTURE

PENNSYLVANIA RIGHT-TO-KNOW:

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

CHEMICAL NAME	CAS NUMBER
C-9 HYDROCARBON RESIN UNSATURATED	71302-83-5
ALKYD RESIN	MIXTURE
ACRYLIC RESIN	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: 620 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.