

**Common Name:** KRYLON  
INDUSTRIAL TOUGH  
COAT  
ACRYLIC  
ENAMEL,  
OSHA  
SAFETY  
GREEN

**Manufacturer:** SHERWIN-  
WILLIAMS

**MSDS Revision Date:** 6/15/2008

**Grainger Item Number(s):** 1FZL7,  
3CPP5

**Manufacturer Model Number(s):**

### MSDS Table of Contents

Click the desired link below to jump directly to that section in the MSDS.

[SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION](#)

[SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS](#)

[SECTION 3 - HAZARDS IDENTIFICATION](#)

[SECTION 4 - FIRST AID MEASURES](#)

[SECTION 5 - FIRE FIGHTING MEASURES](#)

[SECTION 6 - ACCIDENTAL RELEASE MEASURES](#)

[SECTION 7 - HANDLING AND STORAGE](#)

[SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION](#)

[SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES](#)

[SECTION 10 - STABILITY AND REACTIVITY](#)

[SECTION 11 - TOXICOLOGICAL INFORMATION](#)

[SECTION 12 - ECOLOGICAL INFORMATION](#)

[SECTION 13 - DISPOSAL CONSIDERATIONS](#)

[SECTION 14 - TRANSPORT INFORMATION](#)

[SECTION 15 - REGULATORY INFORMATION](#)

[SECTION 16 - OTHER INFORMATION](#)

MATERIAL SAFETY DATA SHEET

1470

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## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NUMBER: 1470

PRODUCT NAME:  
KRYLON(R\*) INDUSTRIAL TOUGH COAT(TM) ACRYLIC ENAMEL, OSHA SAFETY GRE

DATE OF PREPARATION: 15-JUN-08

HMIS CODES:  
HEALTH 2\*  
FLAMMABILITY 3  
REACTIVITY 0

MANUFACTURER'S NAME:  
THE SHERWIN-WILLIAMS COMPANY  
DIVERSIFIED BRANDS  
CLEVELAND, OH 44115

TELEPHONE NUMBERS AND WEBSITES:

PRODUCT INFORMATION: (800) 247-3266

REGULATORY INFORMATION:  
(216) 566-2902  
WWW.PAINTDOCS.COM

MEDICAL EMERGENCY: (216) 566-2917

TRANSPORTATION EMERGENCY: (800) 424-9300

FOR CHEMICAL EMERGENCY ONLY (SPILL, LEAK, FIRE, EXPOSURE, OR ACCIDENT)

## SECTION 2 - COMPOSITION/INFORMATION ON INGREDIENTS

% BY WT	CAS NO.	INGREDIENT	UNITS	VAPOR P
14	74-98-6	PROPANE ACGIH TLV: 2500 PPM OSHA PEL: 1000 PPM		760 MM
13	106-97-8	BUTANE ACGIH TLV: 800 PPM OSHA PEL: 800 PPM		760 MM
22	108-88-3	TOLUENE ACGIH TLV: 20 PPM OSHA PEL: 100 PPM (SKIN) OSHA PEL: 150 PPM (SKIN) STEL		22 MM
0.1	100-41-4	ETHYLBENZENE ACGIH TLV: 100 PPM ACGIH TLV: 125 PPM STEL OSHA PEL: 100 PPM OSHA PEL: 125 PPM STEL		7.1 MM
29	67-64-1	ACETONE ACGIH TLV: 500 PPM ACGIH TLV: 750 PPM STEL OSHA PEL: 1000 PPM		180 MM
2	763-69-9	ETHYL 3-ETHOXYPROPIONATE ACGIH TLV: NOT AVAILABLE		1.11 MM

4 13463-67-7 TITANIUM DIOXIDE  
ACGIH TLV: 10 MG/M3 AS DUST  
OSHA PEL: 10 MG/M3 TOTAL DUST  
OSHA PEL: 5 MG/M3 RESPIRABLE  
FRACTION

### **SECTION 3 - HAZARDS IDENTIFICATION**

ROUTES OF EXPOSURE:

INHALATION OF VAPOR OR SPRAY MIST.  
EYE OR SKIN CONTACT WITH THE PRODUCT, VAPOR OR SPRAY MIST.

EFFECTS OF OVEREXPOSURE:

EYES: IRRITATION.  
SKIN: PROLONGED OR REPEATED EXPOSURE MAY CAUSE IRRITATION.  
INHALATION: IRRITATION OF THE UPPER RESPIRATORY SYSTEM.

MAY CAUSE NERVOUS SYSTEM DEPRESSION. EXTREME OVEREXPOSURE MAY RESULT IN UNCONSCIOUSNESS AND POSSIBLY DEATH.

PROLONGED OVEREXPOSURE TO SOLVENT INGREDIENTS IN SECTION 2 MAY CAUSE ADVERSE EFFECTS TO THE LIVER, URINARY, CARDIOVASCULAR AND REPRODUCTIVE SYSTEMS.

SIGNS AND SYMPTOMS OF OVEREXPOSURE:

HEADACHE, DIZZINESS, NAUSEA, AND LOSS OF COORDINATION ARE INDICATIONS OF EXCESSIVE EXPOSURE TO VAPORS OR SPRAY MISTS.

REDNESS AND ITCHING OR BURNING SENSATION MAY INDICATE EYE OR EXCESSIVE SKIN EXPOSURE.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE: NONE GENERALLY RECOGNIZED

CANCER INFORMATION:

FOR COMPLETE DISCUSSION OF TOXICOLOGY DATA REFER TO SECTION 11.

### **SECTION 4 - FIRST AID MEASURES**

EYES:

FLUSH EYES WITH LARGE AMOUNTS OF WATER FOR 15 MINUTES.  
GET MEDICAL ATTENTION.

SKIN:

WASH AFFECTED AREA THOROUGHLY WITH SOAP AND WATER.  
REMOVE CONTAMINATED CLOTHING AND LAUNDER BEFORE RE-USE.

INHALATION:

IF AFFECTED, REMOVE FROM EXPOSURE. RESTORE BREATHING.  
KEEP WARM AND QUIET.

INGESTION:

DO NOT INDUCE VOMITING.  
GET MEDICAL ATTENTION IMMEDIATELY.

## **SECTION 5 - FIRE FIGHTING MEASURES**

FLASH POINT:  
PROPELLANT: <0 F

LEL: 1.0  
UEL: 12.8

EXTINGUISHING MEDIA: CARBON DIOXIDE, DRY CHEMICAL, FOAM

UNUSUAL FIRE AND EXPLOSION HAZARDS:

CONTAINERS MAY EXPLODE WHEN EXPOSED TO EXTREME HEAT.

APPLICATION TO HOT SURFACES REQUIRES SPECIAL PRECAUTIONS.

DURING EMERGENCY CONDITIONS OVEREXPOSURE TO DECOMPOSITION PRODUCTS MAY CAUSE A HEALTH HAZARD. SYMPTOMS MAY NOT BE IMMEDIATELY APPARENT. OBTAIN MEDICAL ATTENTION.

SPECIAL FIRE FIGHTING PROCEDURES:

FULL PROTECTIVE EQUIPMENT INCLUDING SELF-CONTAINED BREATHING APPARATUS SHOULD BE USED.

WATER SPRAY MAY BE INEFFECTIVE. IF WATER IS USED, FOG NOZZLES ARE PREFERABLE. WATER MAY BE USED TO COOL CLOSED CONTAINERS TO PREVENT PRESSURE BUILD-UP AND POSSIBLE AUTOIGNITION OR EXPLOSION WHEN EXPOSED TO EXTREME HEAT.

## **SECTION 6 - ACCIDENTAL RELEASE MEASURES**

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:  
REMOVE ALL SOURCES OF IGNITION. VENTILATE THE AREA.  
REMOVE WITH INERT ABSORBENT.

## **SECTION 7 - HANDLING AND STORAGE**

STORAGE CATEGORY: NOT AVAILABLE

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:  
KEEP AWAY FROM HEAT, SPARKS, AND OPEN FLAME. VAPORS WILL ACCUMULATE READILY AND MAY IGNITE EXPLOSIVELY.

DURING USE AND UNTIL ALL VAPORS ARE GONE:  
KEEP AREA VENTILATED - DO NOT SMOKE - EXTINGUISH ALL FLAMES, PILOT LIGHTS AND HEATERS - TURN OFF STOVES, ELECTRIC TOOLS AND APPLIANCES, AND ALL OTHER SOURCES OF IGNITION.

CONSULT NFPA CODE. USE APPROVED BONDING AND GROUNDING PROCEDURES.

CONTENTS UNDER PRESSURE. DO NOT PUNCTURE, INCINERATE, OR EXPOSE TO TEMPERATURE ABOVE 120F. HEAT FROM SUNLIGHT, RADIATORS, STOVES, HOT SURFACES AND OTHER HEAT SOURCES COULD CAUSE CONTAINER TO BURST. DO NOT TAKE

INTERNALLY. KEEP OUT OF THE REACH OF CHILDREN.

## **SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION**

PRECAUTIONS TO BE TAKEN IN USE:

USE ONLY WITH ADEQUATE VENTILATION.

AVOID CONTACT WITH SKIN AND EYES. AVOID BREATHING VAPOR AND SPRAY MIST.

WASH HANDS AFTER USING.

THIS COATING MAY CONTAIN MATERIALS CLASSIFIED AS NUISANCE PARTICULATE (LISTED "AS DUST" IN SECTION 2) WHICH MAY BE PRESENT AT HAZARDOUS LEVELS ONLY DURING SANDING OR ABRADING OF THE DRIED FILM. IF NO SPECIFIC DUSTS ARE LISTED IN SECTION 2, THE APPLICABLE LIMITS FOR NUISANCE DUSTS ARE ACGIH TLV 10 MG/M3 (TOTAL DUST), 3 MG/M3 (RESPIRABLE FRACTION), OSHA PEL 10 MG/M3 (TOTAL DUST), 5 MG/M3 (RESPIRABLE FRACTION).

VENTILATION:

LOCAL EXHAUST PREFERABLE. GENERAL EXHAUST ACCEPTABLE IF THE EXPOSURE TO MATERIALS IN SECTION 2 IS MAINTAINED BELOW APPLICABLE EXPOSURE LIMITS. REFER TO OSHA STANDARDS 1910.94, 1910.107, 1910.108.

RESPIRATORY PROTECTION:

IF PERSONAL EXPOSURE CANNOT BE CONTROLLED BELOW APPLICABLE LIMITS BY VENTILATION, WEAR A PROPERLY FITTED ORGANIC VAPOR/PARTICULATE RESPIRATOR APPROVED BY NIOSH/MSHA FOR PROTECTION AGAINST MATERIALS IN SECTION 2.

WHEN SANDING OR ABRADING THE DRIED FILM, WEAR A DUST/MIST RESPIRATOR APPROVED BY NIOSH/MSHA FOR DUST WHICH MAY BE GENERATED FROM THIS PRODUCT. UNDERLYING PAINT, OR THE ABRASIVE.

PROTECTIVE GLOVES:

NONE REQUIRED FOR NORMAL APPLICATION OF AEROSOL PRODUCTS WHERE MINIMAL SKIN CONTACT IS EXPECTED. FOR LONG OR REPEATED CONTACT, WEAR CHEMICALLY RESISTANT GLOVES.

EYE PROTECTION: WEAR SAFETY SPECTACLES WITH UNPERFORATED SIDESHIELDS.

OTHER PRECAUTIONS:

INTENTIONAL MISUSE BY DELIBERATELY CONCENTRATING AND INHALING THE COATING CAN BE HARMFUL OR FATAL.

## **SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

PRODUCT WEIGHT:

6.37 LB/GAL

762 G/L

SPECIFIC GRAVITY: 0.77

BOILING POINT:

<0 - 342 F

<-18 - 172 C

MELTING POINT: NOT AVAILABLE

VOLATILE VOLUME: 89%

EVAPORATION RATE: FASTER THAN ETHER

VAPOR DENSITY: HEAVIER THAN AIR

SOLUBILITY IN WATER: N.A.

pH: 7.0

VOLATILE ORGANIC COMPOUNDS (VOC THEORETICAL - AS PACKAGED):  
VOLATILE WEIGHT 52.46% LESS WATER AND FEDERALLY EXEMPT SOLVENTS

## SECTION 10 - STABILITY AND REACTIVITY

STABILITY: STABLE

CONDITIONS TO AVOID: NONE KNOWN.

INCOMPATIBILITY: NONE KNOWN.

HAZARDOUS DECOMPOSITION PRODUCTS:  
BY FIRE: CARBON DIOXIDE, CARBON MONOXIDE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

## SECTION 11 - TOXICOLOGICAL INFORMATION

CHRONIC HEALTH HAZARDS:

REPORTS HAVE ASSOCIATED REPEATED AND PROLONGED OVEREXPOSURE TO SOLVENT WITH PERMANENT BRAIN AND NERVOUS SYSTEM DAMAGE.

ETHYLBENZENE IS CLASSIFIED BY IARC AS POSSIBLY CARCINOGENIC TO HUMANS BASED ON INADEQUATE EVIDENCE IN HUMANS AND SUFFICIENT EVIDENCE IN LABORATORY ANIMALS. LIFETIME INHALATION EXPOSURE OF RATS AND MICE TO ETHYLBENZENE CONCENTRATIONS RESULTED IN INCREASES IN CERTAIN TYPES OF CANCER, INCLUDING KIDNEY TUMORS IN RATS AND LUNG AND LIVER TUMORS IN MICE. THESE EFFECTS WERE NOT OBSERVED IN ANIMALS EXPOSED TO LOWER CONCENTRATIONS. THERE IS NO EVIDENCE THAT ETHYLBENZENE CAUSES CANCER IN HUMANS.

IARC'S MONOGRAPH NO. 93 REPORTS THERE IS SUFFICIENT EVIDENCE OF CARCINOGENICITY IN EXPERIMENTAL RATS EXPOSED TO TITANIUM DIOXIDE BUT INADEQUATE EVIDENCE FOR CARCINOGENICITY IN HUMANS AND HAS ASSIGNED A GROUP 2B RATING. IN ADDITION, THE IARC SUMMARY CONCLUDES, "NO SIGNIFICANT EXPOSURE TO TITANIUM DIOXIDE IS THOUGHT TO OCCUR DURING THE USE OF PRODUCTS IN WHICH TITANIUM IS BOUND TO OTHER MATERIALS, SUCH AS PAINKILLERS."

TOXICOLOGY DATA:

CAS NO.

INGREDIENT NAME

74-98-6

PROPANE

LC50 RAT 4HR: NOT AVAILABLE

LD50 RAT: NOT AVAILABLE

106-97-8	BUTANE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE
108-88-3	TOLUENE LC50 RAT 4HR: 4000 PPM LD50 RAT: 5000 MG/KG
100-41-4	ETHYLBENZENE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 3500 MG/KG
67-64-1	ACETONE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 5800 MG/KG
763-69-9	ETHYL 3-ETHOXYPROPIONATE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: 5000 MG/KG
13463-67-7	TITANIUM DIOXIDE LC50 RAT 4HR: NOT AVAILABLE LD50 RAT: NOT AVAILABLE

## **SECTION 12 - ECOLOGICAL INFORMATION**

ECOTOXICOLOGICAL INFORMATION: NO DATA AVAILABLE.

## **SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD:

WASTE FROM THIS PRODUCT MAY BE HAZARDOUS AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261.

WASTE MUST BE TESTED FOR IGNITABILITY TO DETERMINE THE APPLICABLE EPA HAZARDOUS WASTE NUMBERS.

DO NOT INCINERATE. DEPRESSURIZE CONTAINER. DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE/PROVINCIAL, AND LOCAL REGULATIONS REGARDING POLLUTION.

## **SECTION 14 - TRANSPORT INFORMATION**

US GROUND (DOT):  
MAY BE CLASSED AS CONSUMER COMMODITY, ORM-D  
UN1950, AEROSOLS, 2.1, LIMITED QUANTITY, (ERG# 126)

CANADA (TDG):  
MAY BE CLASSED AS CONSUMER COMMODITY, ORM-D  
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, (ERG# 126)

IMO:

MAY BE SHIPPED AS LIMITED QUANTITY  
UN1950, AEROSOLS, CLASS 2.1, LIMITED QUANTITY, EMS F-D, S-U

## SECTION 15 - REGULATORY INFORMATION

SARA 313 (40 CFR 372.65C) SUPPLIER NOTIFICATION:

CAS NO.	CHEMICAL/COMPOUND	% BY WT	% EL
108-88-3	TOLUENE	22	
100-41-4	ETHYLBENZENE	0.1	

CALIFORNIA PROPOSITION 65:

WARNING:

THIS PRODUCT CONTAINS CHEMICALS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM.

TSCA CERTIFICATION:

ALL CHEMICALS IN THIS PRODUCT ARE LISTED, OR ARE EXEMPT FROM LISTING UNDER THE TSCA INVENTORY.

## SECTION 16 - OTHER INFORMATION

THIS PRODUCT HAS BEEN CLASSIFIED IN ACCORDANCE WITH THE HAZARD CRITERIA OF THE CANADIAN CONTROLLED PRODUCTS REGULATIONS (CPR) AND THE MSDS CONTAINS ALL OF THE INFORMATION REQUIRED BY THE CPR.

THE ABOVE INFORMATION PERTAINS TO THIS PRODUCT AS CURRENTLY FORMULATED AND IS BASED ON THE INFORMATION AVAILABLE AT THIS TIME. ADDITION OF REDUCERS OR OTHER ADDITIVES TO THIS PRODUCT MAY SUBSTANTIALLY ALTER THE COMPOSITION AND HAZARDS OF THE PRODUCT. SINCE CONDITIONS OF USE ARE OUTSIDE OUR CONTROL, WE MAKE NO WARRANTIES, EXPRESS OR IMPLIED, AND ASSUME NO LIABILITY IN CONNECTION WITH ANY USE OF THIS INFORMATION.