

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

MATERIAL SAFETY DATA SHEET - A7097

Associated Grainger Item: 2T650 - Manometer U Inclined

DWYER INSTRUMENTS, INC.

MATERIAL SAFETY DATA SHEET

DATE PREPARED: 02/26/01

REVISION DATE: 03/21/05

SECTION I (MATERIAL IDENTIFICATION)

NAME: RED GAGE OIL

MANUFACTURER:  
DWYER INSTRUMENTS, INC.  
P.O. BOX 373  
MICHIGAN CITY, IN 46360

TELEPHONE: (219) 879-8000

PRODUCT NUMBER: 71-440133-00

HAZARDS:  
HEALTH 2  
FLAMMABILITY 2  
REACTIVITY 0  
PP B

WHMIS CLASSIFICATION:  
CLASS D DIVISION 2 SUBDIVISION B  
CLASS B DIVISION 3

SECTION II (HAZARDOUS INGREDIENTS)

COMPONENTS	CAS NUMBER	NOTE	PERCENT
DWYER RED GAGE OIL	MIXTURE		100
1) PETROLEUM HYDROCARBON	64742-47-8	(2)	40-70
2) HYDROTREATED LIGHT NAPHTHENIC DISTILLED	64742-53-6	(3)	40-70
3) RED DYE	71819-51-7	(1)	0.1-1.0

NOTES:  
(1) BASED ON THE DATA AVAILABLE TO DWYER, THESE COMPONENTS IN THIS PRODUCT ARE NOT HAZARDOUS UNDER OSHA HAZARD COMMUNICATIONS (29 CFR 1910.1200).

(2) THIS COMPONENT IS HAZARDOUS AS DEFINED IN OSHA HAZARD COMMUNICATIONS (29 CFR 1910.1200). COMBUSTIBLE.

(3) TOXICITY DATA NOT AVAILABLE FOR THIS COMPONENT.

SECTION III (PHYSICAL DATA)

BOILING POINT: NOT AVAILABLE.

VAPOR PRESSURE: NOT AVAILABLE.

VAPOR DENSITY (AIR=1): NOT AVAILABLE.

SOLUBILITY IN WATER: NEGLIGIBLE.

SPECIFIC GRAVITY (H2O=1) @ (70 DEG. F): .826.

% VOLATILITY BY VOLUME: NOT AVAILABLE.

EVAPORATION RATE (n-BUTYL ACETATE=1): NOT AVAILABLE.

FLASH POINT: 147 DEG. F.

METHOD: TCC (ASTM D56).

NOTE: MINIMUM.

APPEARANCE AND ODOR: RED LIQUID WITH SLIGHT HYDROCARBON ODOR.

SECTION IV (HEALTH INFORMATION AND PROTECTION)

EYE CONTACT: SLIGHTLY IRRITATING BUT DOES NOT INJURE EYE TISSUE.

SKIN CONTACT:  
LOW ORDER OF TOXICITY. FREQUENT OR PROLONGED CONTACT MAY LEAD TO VARIOUS SKIN DISORDERS SUCH AS, OIL ACNE, DERMATITIS, FOLLICULITIS OR LOCAL NECROSIS IF MATERIAL GETS UNDER SKIN.

INHALATION:  
HIGH VAPOR CONCENTRATIONS ARE IRRITATING TO THE EYES AND THE RESPIRATORY TRACT, MAY CAUSE HEADACHES AND DIZZINESS, ARE ANESTHETIC AND MAY HAVE OTHER CENTRAL NERVOUS SYSTEM EFFECTS.

INGESTION:  
DO NOT INDUCE VOMITING. MINIMAL TOXICITY, SMALL AMOUNTS OF THE RESPIRATORY SYSTEM DURING INGESTION OR FROM VOMITING MAY CAUSE BRONCHOPNEUMONIA, PULMONARY EDEMA OR ASPIRATION PNEUMONIA.

AGGRAVATED MEDICAL CONDITIONS:  
PREEXISTING SKIN AND RESPIRATORY DISORDERS MAY BE AGGRAVATED BY EXPOSURE TO THIS PRODUCT.

SECTION V (EMERGENCY AND FIRST AID PROCEDURES)

EYE CONTACT:

FLUSH EYES WITH LARGE AMOUNTS OF WATER UNTIL IRRITATION SUBSIDES. GET MEDICAL ATTENTION.

SKIN CONTACT:  
REMOVE CONTAMINATED CLOTHING AND WIPE EXCESS OFF. WASH WITH SOAP AND WATER OR A WATERLESS HAND CLEANER FOLLOWED BY SOAP AND WATER. IF IRRITATION OCCURS, GET MEDICAL ATTENTION.

INHALATION:  
USING PROPER RESPIRATORY PROTECTION, REMOVE THE VICTIM FROM THE EXPOSED AREA, PROVIDE OXYGEN IF BREATHING IS DIFFICULT OR CPR IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION.

INGESTION:  
IF SWALLOWED, DO NOT INDUCE VOMITING! KEEP AT REST. KEEP HEAD BELOW HIP TO PREVENT ASPIRATION OF LIQUID INTO LUNGS. GET PROMPT MEDICAL ATTENTION.

NOTE TO THE PHYSICIAN:  
IN GENERAL, EMESIS INDUCTION IS UNNECESSARY IN HIGH VISCOSITY LOW VOLATILITY PRODUCTS, I.E., MOST OILS AND GREASES.

SECTION VI (SUPPLEMENTAL HEALTH INFORMATION)

IT HAS BEEN REPORTED TO THE U.S. EPA PURSUANT TO SECTION 8(E) OF TSCA THAT A SAMPLE OF HYDROTREATED MIDDLE DISTILLATE (CAS REGISTRY NUMBER 64742-46-7) APPLIED REPEATEDLY TO THE SKIN OF EXPERIMENTAL ANIMALS OVER THEIR LIFETIME PRODUCED A WEAK TUMORIGENIC RESPONSE IN THE SKIN. THE FULL REFINING/PROCESS HISTORY WAS NOT PROVIDED IN THIS SUBMISSION.

LABORATORY ANIMAL STUDIES HAVE SHOWN THAT PROLONGED AND REPEATED INHALATION EXPOSURE TO LIGHT HYDROCARBON VAPORS IN THE SAME NAHTHA BOILING RANGE AS THIS PRODUCT CAN PRODUCE ADVERSE KIDNEY EFFECTS IN MALE RATS. HOWEVER, THESE EFFECTS WERE NOT OBSERVED IN SIMILAR STUDIES WITH FEMALE RATS AND MALE AND FEMALE MICE AND IN LIMITED STUDIES WITH OTHER ANIMAL SPECIES. ADDITIONALLY, IN A NUMBER OF HUMAN STUDIES, THERE WAS NO CLINICAL EVIDENCE OF SUCH EFFECTS AT NORMAL OCCUPATIONAL LEVELS. IT IS THEREFORE HIGHLY UNLIKELY THAT THE KIDNEY EFFECTS OBSERVED IN MALE RATS HAVE SIGNIFICANT IMPLICATIONS FOR HUMANS EXPOSED AT OR BELOW RECOMMENDED VAPOR LIMITS IN THE WORKPLACE.

SECTION VII (FIRE FIGHTING)

EXTINGUISHING MEDIA:  
USE WATER FOG, FOAM, DRY CHEMICAL OR CO2. DO NOT USE DIRECT STREAM OF WATER. USE WATER SPRAY ONLY TO PROTECT PERSONNEL AND COOL FIRE EXPOSED SURFACES AND CONTAINERS. PRODUCT CAN BE REIGNITED ON THE SURFACE OF THE WATER.

SPECIAL PRECAUTIONS:  
DO NOT ENTER CONTAINED FIRE SPACE WITHOUT FULL BUNKER GEAR (HELMET WITH FACE SHIELD, BUNKER COATS, GLOVES AND RUBBER BOOTS), INCLUDING A POSITIVE PRESSURE NIOSH-APPROVED SELF-CONTAINED BREATHING APPARATUS.

SECTION VIII (OCCUPATIONAL EXPOSURE LIMITS AND PROTECTIVE EQUIPMENT)

NO.	PEL/TWA	PEL/CEILING	TLV/TWA	TLV/STEL
P	5 MG/M3	NONE	5 MG/M3	10 MG/M3

VENTILATION:  
THE USE OF MECHANICAL DILUTION VENTILATION IS RECOMMENDED WHENEVER THIS PRODUCT IS USED IN A CONFINED SPACE.

RESPIRATORY PROTECTION:  
IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS, USE A NIOSH-APPROVED RESPIRATOR TO PREVENT OVER EXPOSURE. THE REGULATOR SELECTED SHOULD BE SUITABLE FOR ORGANIC VAPORS AND PARTICULATES.

EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES.

PROTECTIVE GLOVES: NITRILE.

OTHER PROTECTIVE EQUIPMENT: IMPERVIOUS CLOTHING OR APRON.

SECTION IX (REACTIVITY DATA)

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS AND MATERIALS TO AVOID: OPEN FLAMES AND OXIDIZING MATERIALS.

HAZARDOUS DECOMPOSITION:  
AIRBORNE SOLID, LIQUID, PARTICULATES AND GASES WILL BE EMITTED DURING PYROLYSIS OR COMBUSTION. CARBON DIOXIDE AND OTHER UNKNOWN ORGANIC COMPOUNDS MAYBE FORMED UPON COMBUSTION.

SECTION X (SPILL OR LEAK PROTECTION)

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:

- 1) ELIMINATE ALL POSSIBLE IGNITION SOURCES
- 2) PREVENT ADDITIONAL DISCHARGE OF MATERIAL
- 3) SOAK UP SPILL WITH A NON-COMBUSTIBLE ABSORBENT
- 4) DISPOSE OF IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS

SECTION XI (SPECIAL PRECAUTIONS)

- 1) STORE IN "COMBUSTIBLES STORAGE AREA".
- 2) IN ACCORDANCE WITH GOOD INDUSTRIAL PRACTICE, HANDLE WITH CARE AND AVOID PERSONAL CONTACT.

SECTION XII (TRANSPORTATION)

THIS MATERIAL IS CLASSIFIED AS NON-HAZARDOUS FOR AIR AND GROUND SHIPMENTS  
PER DOT. 49 CFR 173.150.

SECTION XIII (U.S. FEDERAL REGULATIONS)

SARA 313: NO TOXIC CHEMICAL IS PRESENT GREATER THAN 1%.

COMPONENTS OF THIS PRODUCT ARE LISTED ON THE TSCA INVENTORY.

THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO DWYER  
INSTRUMENTS AND IS BELIEVED TO BE CORRECT. HOWEVER, DWYER INSTRUMENTS MAKES  
NO WARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE  
RESULTS TO BE OBTAINED FROM THE USE THEREOF. DWYER INSTRUMENTS ASSUMES NO  
RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN.

NA - NOT APPLICABLE  
NE - NOT ESTABLISHED  
ND - NOT DETERMINED