LWYER INSTRUMENTS INC. MATERIAL SAFETY DATA SHERT DATE FREPARED 4-16-31

CECTION I (MATERIAL IDENTIFICATION)

NAME: RED GAGE OIL

MANUFACTURER: DWYER INSTRUMENTS INC.

P.O. BOX 373

MICHIGAN CITY, IN 46360

TELEPHONE: (219) 879-8000

FRODUCT NUMBER: 71-440133 00

HAZARDS: HEALTH (2) FLAMMABILITY (2) REACTIVITY (0) PP (B)

WIMIS CLASSIFICATION: CLASS D DIVISION 1 SUBDIVISION B

TDG CLASSIFICATION: CLASS 6 DIVISION 1

CECTION II (HAZARDOUS INGREDIENTS) COMPONENTS	CAS NUMBER	HOTE	PERCENT
LWYER RED GAGE OIL	HIXTURE		100
1 PETROLEUM HYDROCARBON	64742-47-8	(2)	40-70
2 SOLVENT REFINED, HYDROTREATED, MIDDLE DISTILLATE	64742-46-7	(3)	15-40
3 SOLVENT REFINED, HYDROTREATED. HEAVY NAPHTHENIC DISTILLATE	64742 - 52 - 5	(3)	1-5
4 POLYMERIC ADDITIVE IN OIL	HIXTURE	(1)	3-7
5 MINOR ADDITIVES	HIXTURE	(1)	0.1-1.0
A RED DYE	N/A	(1)	0.1-1.0

NOTES:

- (1) BASED ON THE DATA AVAILABLE TO INVER. THESE COMPONENTS IN THIS PRODUCT ARE NOT HAZARDOUS UNDER OSHA HAZARD COMMUNICATION (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 (H20=1) @ (70 F): .826

* VOLATILITY BY VOLUME: NOT AVAILABLE

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

APPRARANCE AND ODOR: RED LIQUID WITH SLIGHT HYDROCARBON ODOR

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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. DERHATITIS OR FOLLICULITIS.

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

INGESTION: MINIMAL TOXICITY. SMALL AMOUNTS OF THE LIGHTD ASPIRATED INTO THE RESPIRATORY SYSTEM DURING INGESTION OR FROM VOMITING MAY CAUSE BRONCHIOPNEUMONIA OR PULMONARY EDEMA.

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

SECTION V (EMERGENCY AND FIRST AID PROCEDURES)

BYB CONTACT: FLUSH BYBS 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, GRT MEDICAL ATTENTION.

INHALATION: USING PROPER RESPIRATORY PROTECTION. REHOVE THE VICTIM FROM THE EXPOSED AREA. PROVIDE OXYGEN IF BREATHING IS DIFFICULT OR C.P.R. IF BREATHING HAS STOPPED. GET MEDICAL ATTENTION.

INGESTION: IF SWALLOWED, DO NOT INDUCE VOMITING! KEEP AT REST. GET PROMPT HEDICAL 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 B(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 HEAK TUMORIGENIC RESPONSE IN THE SKIN. THE FULL REFINING PROCESS HISTORY HAS NOT PROVIDED IN THIS SUBMISSION.

LABORATORY ANIMAL STUDIES HAVE SHOWN THAT PROLONGED AND REPEATED INHALATION EXPOSURE TO LIGHT HYDROCARBON VAPORS IN THE SAME NAPTHA BOILING RANGE AS THIS PRODUCT CAN PRODUCE ADVERSE KIDNEY AFFECTS IN MALE RATS. HOMEVER. THESE EFFECTS WERE NOT OBSERVED IN SIMILAR STUDIES WITH FEMALE RATS AND MALE AND FEMALE HICE AND IN LIMITED STUDIES WITH OTHER ANIMAL SPECIES. ADDITIONALLY IN A NUMBER OF HUMAN STUDIES. THERE WAS NO CLINICAL EVIDENCE OF SUCH AFFECTS 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 (OCCUPATIONAL EXPOSURE LIMITS AND PROTECTIVE EQUIPMENT) PEL/TWA PEL/CEILING TLV/TWA TLV/STEL 10 MG/H++3 5 MG/M++3 NONE 5 MG/M++3 ______

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VENTILATION: THE USE OF MECHANICAL DILUTION VENTILATION IS RECOMMENDED WHENEVER THIS PRODUCT IS USED IN A CONFINED SPACE. REPIRATORY PROTECTION: IF EXPOSURE MAY OR DOES EXCEED OCCUPATIONAL EXPOSURE LIMITS. USE A MIOSH-APPROVED RESPIRATOR TO PREVENT OVEREXPOSURE. THE REGULATOR SELECTED SHOULD BE SUITABLE FOR ORGANIC VAPORS AND PARTICULATES. EYE PROTECTION: SAFETY GLASSES WITH SIDE SHIELDS OR GOGGLES. FROTECTIVE GLOVES: NEOPRENE. OTHER PROTECTIVE EQUIPMENT: IMPERVIOUS CLOTHING OR APRON. SECTION VIII (FIRE FIGHTING) EXTINGUISHING MEDIA: USE WATER FOG. FOAM. DRY CHEMICAL OR CO2. TO 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 IX (REACTIVITY DATA) STABILITY: STABLE HAZARDOUS FOLYMERIZATION: WILL NOT OCCUR CONDITIONS AND HATBRIALS TO AVOID: OPEN FLAMES AND OXIDIZING MATERIALS HAZARDOUG DECOMPOSITION: AIRBORNE SOLID. LIQUID. PARTICULATES AND GASES WILL BE EMITTED DURING PYROLYSIS OR COMBUSTION. CARBON DIOXIDE AND OTHER UNKNOWN ORGANIC COMPOUNDS HAYBE FORMED UPON COMBUSTION. SECTION X (SPILL OR LEAK PROTECTION) STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED 1) BLIMINATE ALL POSSIBLE IGNITION SOURCES. 2) PREVENT ADDITIONAL DISCHARGE OF MATERIAL 3) SOAK UP SPILL WITH A NON COMBUSTIBLE ABSORBANT 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 THE INFORMATION CONTAINED HEREIN IS BASED ON THE DATA AVAILABLE TO US AND IS BELIEVED TO BE CORRECT. HOMEVER, IMYER INSTRUMENTS MAKES NO MARRANTY, EXPRESSED OR IMPLIED REGARDING THE ACCURACY OF THE DATA OR THE RESULTS TO BE OBTAINED FROM THE USE THEREOF. LWYER INSTRUMENTS ASSUMES NO RESPONSIBILITY FOR INJURY FROM THE USE OF THE PRODUCT DESCRIBED HEREIN. RED GAGE OIL MSDS PAGE 3 OF 3

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