MATERIAL SAFETY DATA SHEET

ZYGLO ® PENETRANT - ZL-19

1. IDENTIFICATION

COMPANY	:	ITW INDIA PRIVATE LIMITED
ADDRESS	:	PLOT NO 51, 52,207 & 208, PHASE – 2, IDA TSIIC, PASHAMMYLARAM, SANGAREDDY – 502 307, TELANGANA INDIA.
TELEPHONE	:	91 – 8455 – 224710
FAX	:	91 – 8455 – 224709
PRODUCT USE	:	Penetrant for Fluorescent Inspection
PACKAGES	:	20 L & 205 L
NFPA Rating	:	Health 1, Flammability 1, Reactivity 0.
Revision Date	*:*	OCT 28 , 2025.

2. HAZARDS IDENTIFICTION

2.1 Classification of the substance or mixture
GHS Classification
Skin Irrit. 2
Eye Dam.1
Asp. Tox. 1

2.2 Label Elements
GHS Labelling
Hazardous Pictograms (GHS)

Signal Word; : Danger
Hazard Statement : Causes skin irritation. Causes serious eye damage. May be fatal if swallowed and enter airways.

2.3 Other Hazards
No additional information available

2.4 Unknown acute toxicity
Not Applicable

3. Hazardous Ingredients

3.1 Substance
Not Applicable

3.2 Mixture

Ingredient	Wt/Wt%	CAS#	TLV	PEL	LD 50	LC 50

White mineral oil (petroleum, severely hydro-treated)	40%	8042-47-5 or 64742-47-8	5 mg/m3	5 mg/m3	NA	NA
Alcohols, C6-10, Ethoxyl	15-40	68987-81-5	NA	NA	NA	NA
Alcohols, C12-15, Ethoxyl	10-30	68551-13-3	NA	NA	1.2 g/kg (oral/rat)	NA
Tri-butoxyethyl phosphate	10-30	78-51-3	NA	NA	3 g/kg (oral/rat)	75mg/l
Secondary Alcohol Ethoxylate	0-20	84133-50-6	NA	NA	8.57ml/kg(oral/rat)	NA

4. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Bland, oily liquid which may irritate the skin and eyes. Bulk material is difficult to ignite , but will burn vigorously if engulfed in fire.

POTENTIAL HEALTH EFFECTS

Skin Contact : Can irritate by removing natural skin oils on long or repeated exposures
Eyes : Irritating
Inhalation : Not significant at room temperatures. When heated or sprayed, vapors may cause dizziness or nausea
Ingestion : Not significant in small(mouthful)quantities
Medical conditions known to be aggravated by exposure to product: None

5. FIRST AID

Skin Contact : Wash off with soap water .Use soothing lotion
Eyes : Rinse carefully under upper and lower eyelids using plenty of water
Inhalation : Remove to fresh air if dizzy or nauseated
Ingestion : Do not induce vomiting. Accidental ingestion of a small mouthful quantity is not expected to cause significant harm
NOTE: In all severe cases, contact physician immediately.

6. FIRE HAZARD

Conditions of flammability : Can ignite if heated over 93 deg C
Flash point : Min 93 deg C (PMCC)
Flammable limits in air : 1 to 6%
Extinguishing media : Carbon dioxide , Foam
Special fire fighting procedures : Keep containers cool with water spray.Donot spray water directly on burning ZL-19.It may float and spread the fire
Hazardous combustion products : Smoke,soot,oxides or carbon and nitrogen
Unusual fire hazards : None

7. ACCIDENTAL RELEASE MEASURES

Mop up or Sweep up with absorbent (For disposal see Section 13)

8. HANDLING AND STORAGE

Store away from heat source. Avoid eye contact. Avoid repeated or prolonged skin contact.
Avoid breathing spray mist.

9. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls : None,unless sprayed. Use where ventilation will carry spray mist away from occupied areas
Personal protection : Wear safety glasses to protect eyes. Wear nitrile rubber gloves if hand exposure is unavoidable.
Respirator with filter if sprayed in enclosed, unventilated space.

10. PHYSICAL PROPERTIES

Initial boiling point (bulk)	:	Min 235 deg C	Vapor pressure	:	<0.1 mm @ 21 deg C
VOC content	:	356 g/L	Vapor density	:	Heavier than air
Density/sp. gravity	:	0.92	Evaporation rate	:	Negligible

Water solubility	:	0 (emulsifies into water)	Appearance	:	Green oily liquid
pH	:	Neutral	Odor	:	Mild odour

11. STABILITY AND REACTIVITY

Stability	:	Stable
Incompatibility	:	None
Hazardous decomposition products	:	Soot, oxides of carbon if heated to combustion temperatures
Reactivity	:	None

12. TOXICOLOGICAL INFORMATION

Carcinogenicity	:	Contains no known or suspected carcinogens listed with OSHA, IARC, NTP or ACGIH
Threshold limit value	:	5mg/cubic meter for oily mist
WHMIS information (Canada)	:	According to available information, the ingredients have not been found to show reproductive toxicity, Teratogenicity, Mutagenicity, Skin sensitization, or Synergistic toxic effects with other material.

13. ECOLOGICAL INFORMATION

No data is available on ZL-19. It emulsifies into water and is biodegradable. Its low bulk vapor pressure may exempt it from VOC restrictions.

14. DISPOSAL

All Disposal practices must be in compliance with all local laws and regulations. Waste characterizations and compliance with applicable laws
are the responsibility solely of the waste generator.

15. TRANSPORTATION

U.S. DOT: 49 CFR 172.101 Hazardous Materials Table:

Proper shipping name	:	None, not restricted
Hazard class or division	:	None
Identification No.	:	None
Packing Group	:	None

IATA: List of Dangerous Goods

Proper shipping name	:	None, not restricted
Hazard class or division	:	None
Identification No.	:	None
Packing Group	:	None

IMDG: General Index

Proper shipping name	:	None, not restricted
Hazard class or division	:	None
Identification No.	:	None
Packing Group	:	None

16. REGULATORY INFORMATION

TSCA	:	All ingredients are listed in TSCA inventory.
CERCLA	:	Not reportable
SARA TITLE III, Section 313	:	No reportable ingredients
California Proposition 65 :Warning	:	This material may contain trace amounts of chemicals known to the state of California to cause cancer and/or birth defects and/or reproductive harm.

WHMIS Class (Canada): Non-Aerosol: D-2B. Aerosol: A, B-5, D-2B

Note: This MSDS has been prepared to meet WHMIS (Canada) requirements with the exception of using 16 headings.

17. **OTHER INFORMATION**

Revision Statement *: Periodic Review and incorporation of Registered office address change*

MSDS/ZL-19/05 dated 10/2025