



Section 1 – PRODUCT AND COMPANY INFORMATION

Product Name:	Ethylene Oxide Indicator Ink
Product Family:	IERY-01 and IERY-02
Recommended Use:	Production of chemical indicators intended for monitoring Ethylene Oxide sterilization processes
Restrictions on Use:	Not applicable for food contact materials
Company:	True Indicating, LLC.
Address:	946 Kane St., Toledo, Ohio 43612
Technical Phone:	248-982-6492
Emergency Phone:	419-476-7119
Fax:	Not Applicable

SECTION 2 - HAZARDS IDENTIFICATION

GHS Classification Category in accordance with 29 CFR 1920.1200 (OSHA HCS) and Regulation (EC) No 1272/2008 (CLP):	Skin Irritation	Eye Irritation
	Category 2 (OSHA and CLP)	Category 2A (OSHA Category 2 (CLP))
Pictogram:		
Signal Word:	Warning	Warning
Hazard Statement:	Causes skin irritation	Causes serious eye irritation
Precautionary Statement Prevention:	Wash after handling. Wear protective gloves/eye protection/face protection. Avoid breathing vapors. Contaminated work clothing must not be taken outside workplace.	
Precautionary Statement Response:	If on skin: wash with copious amounts of water If skin irritation/rash occurs: obtain medical advice/attention Take off contaminated clothing and wash before reusing If in eyes, rinse with water for 15 minutes. Remove any contact lenses and continue rinsing. If eye irritation continues, obtain medical advice/attention	
Precautionary Statement Storage:	None	
Precautionary Statement Disposal:	Dispose in accordance with all federal, state, provincial, and local regulations. This material does not meet the criteria of a hazardous waste as defined by the Resources Conservation and Recovery Act (RCRA) 40 CFR 261.	

SECTION 3 – COMPOSITION / INFORMATION ON INGREDIENTS

Component:	CAS #	EINECS	% by Wt
Water	7732-18-5	231-791-2	40-50%
Proprietary Mixture	NA	NA	50-60%

Amounts specified are typical.

The specific chemical identities and percentages of the proprietary mixture are withheld trade secret, per 29 CFR Part 1910.1200 paragraph(i).



Section 4 – FIRST AID MEASURES

Eyes:	Flush thoroughly with water for 15 minutes. Seek medical attention if irritation develops.
Skin:	Wash contacted area with soap and water. Remove clothing from affected area and seek medical attention if irritation persists.
Ingestion:	Unlikely route of exposure. Drink copious amounts of water and do not induce vomiting. Seek medical attention.
Inhalation:	Unlikely route of exposure.

Section 5 – FIRE FIGHTING MEASURES

Extinguishing Media:	Carbon dioxide, dry chemical and foam.
Protection of firefighters:	Wear self-contained breathing apparatus and full protective clothing.

Section 6 – ACCIDENTIAL RELEASE MEASURES

Personal Protection:	Use PPE (goggles, gloves, lab coat) appropriate to size and risk of exposure
Methods for Clean Up:	Contain and absorb spill using inert material. Scrape up and place in a closed container for disposal. Rinse area with water.

Section 7 – HANDLING AND STORAGE

Handling:	Use material in ventilated area. Avoid contact with skin, eyes and clothing. Wash after handling. Keep container tightly closed when not being used.
Storage:	Ambient storage temperature.

Section 8 – EXPOSURE CONTROLS / PERSONAL PROTECTION

Exposure Guidelines:	OSHA (PEL)	1993-1994 ACGIH (TLV)	NIOSH REL	OSHA
Not Applicable	NA	NA	NA	NA

REL = Recommended Exposure Limit
 PEL = Permissible Exposure Limit
 TLV = Threshold Limit Value
 TWA = Time-Weighted Average (8 hours)
 CEIL = Ceiling (maximum allowable exposure limit for an airborne substance)
 STEL = Short term (15 minutes) Exposure Limit
 NE = Not Established

Engineering Controls:	Adequate ventilation, eye washes, and showers for emergency use.
Personal Protection Equipment:	Goggles, gloves, lab coat to be worn. Eye wash station should be available.



Section 9 – PHYSICAL / CHEMICAL PROPERTIES

Appearance:	Orange liquid
Physical State:	Liquid
Odor:	Slight ammonia odor
pH:	8.0 - 10.5
Boiling Point:	Not available
Freezing Point:	Not available
Vapor Density:	Heavier than air
Specific Gravity:	Not available
Bulk Density:	Heavier than water
Volatile %	< 1%
Water Content	50-60%
Solvent Content:	< 1%
Evaporation Rate:	< 1
Viscosity:	IERY-01=#3 Zahn cup, 15 - 25 seconds IERY-02 (10 rpm using #3 spindle)= 5,000-8,000 cps
Flash Point:	Not available
Explosion Limits:	Not available
Flammability:	Not available
Solubility:	Water soluble

Section 10 – STABILITY AND REACTIVITY

Stability:	Stable under anticipated storage/handling conditions.
Incompatible Materials:	Avoid exposure to acids and/or bases
Hazardous Decomposition Products:	None known
Possibility of Hazardous Reactions:	None known

Section 11 – TOXICOLOGICAL INFORMATION

Eye Effects:	Not available
Skin Effects:	Not available
Oral Effects:	Not available
Inhalation Effects:	Not available
Chronic Effects: Carcinogenicity	None known

Section 12 – ECOLOGICAL INFORMATION

Environmental Fate:	Not available
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Section 13 – DISPOSAL CONSIDERATIONS

Disposal:	Dispose in accordance with all federal, state, provincial, and local regulations. This material does not meet the criteria of a hazardous waste as a defined under the Resource Conservation and Recovery Act (RCRA) 40 CRF 261.
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Section 14 – TRANSPORT INFORMATION

US DOT Shipping Name:	Not regulated
Hazard Class:	Not available
IATA (International Air Transport Association):	Not regulated
IMO (International Maritime Organization):	Not regulated

Section 15 – REGULATORY INFORMATION

US FEDERAL REGULATIONS:

Toxic substances Control Act Inventory (TSCA):	The ingredients within this material are either on, or exempt from the TSCA Inventory List.
SARA Title III, Sec. 302 (Extremely Hazardous Substances):	Not applicable
SARA Title III, Sec. 311/312 (Hazard Classes):	Not applicable
SARA Title III, Sec. 313 (Toxic Chemicals):	Not applicable

INTERNATIONAL REGULATIONS:

Canada DSL:	The product is a mixture of ingredients. All components of this material are on Canada’s DSL Inventory List.
EINECS/ELINCS:	The ingredients of this material are either on or exempt from the European Inventory of Existing Commercial Chemical Substances List.

Section 16 – OTHER INFORMATION

Disclaimer:	The ingredients within this material are either on, or exempt from the TSCA Inventory List.
Warranty:	True Indicating does not validate ink for every possible substrate/ink combination or printing process/equipment. True Indicating shall not be held liable for any loss, costs, damages as result from the use of said ink. True Indicating warrants to the original purchaser that the ink is free from manufacturing defects which would compromise its performance. If any ink is determined to be defective, True Indicating will exchange the defective ink or refund the purchase price as True Indicating determines. There are no other expressed or implied warranty, and no implied warranty of merchantability and no implied warranty for a particular purpose.

This Safety Data Sheet has been created using data from sources considered technically reliable. It does not constitute a warranty as to the accuracy of the information contained within. The user is responsible for evaluation of available information when using the product in any way and would comply with all Federal, State, Provincial and Local Laws/Regulations.