

ELECTRO CLEANER

1. PRODUCT AND COMPANY IDENTIFICATION

1.1 Product identifier and uses of the substance or mixture

Product Name	Indy Electro Cleaner
Description	Solvent Cleaner for Electrical Components
Relevant uses	Cleaning of oil, grease or wax deposits on electrical equipment surfaces.

1.2 Details of the supplier of the safety data sheet

Manufacturer	GUD Holdings (Pty) Ltd via Indy Oil SA 3 The Avenue East Isipingo KwaZulu-Natal South Africa 4110

1.3 Emergency telephone number

Emergency Contact Number(s)	+ 27 31 910 3111 + 27 60 572 8088

2. COMPOSITION

Component	EINECS Number	CAS registry number	% content	Classification
1,1-dichloro-2-chlorethylene	201-167-4	79-01-6	10 – 50	R40, R52/53
Dichloromethane	200-838-9	75-09-2	40 - 90	R40

3. HAZARDS INDENTIFICATION

Human Health Hazards	Causes eye irritation characterized by a burning sensation. Inhalation of vapour or mist may cause respiratory tract irritation and central nervous system effects (headaches, dizziness). The product is harmful if swallowed. Aspiration of the material into the lungs may cause chemical pneumonitis. Ingestion may

	lead to stomach distress, nausea and vomiting. Repeated contact or exposure to the skin may lead to cracking / drying due to the defatting action of the material. Skin discolouration may occur as a result of prolonged exposure.
Safety Hazards	The product is not classified as flammable, but may burn under extremely high temperatures. Care should be exercised upon storage and handling. Avoid contact with high temperatures and ignition sources.
Environmental Hazards	The product may lead to environmental contamination.

4. FIRST AID MEASURES

General Information

If the product splashes into the eye it may cause irritation and conjunctivitis. Ingestion may lead to irritation of the mouth, throat and digestive tract. Aspiration into the respiratory system may occur directly or following ingestion. The product has the potential to be fatal if large amounts are swallowed.
Prolonged exposure to vapour may cause headache, dizziness, nausea and irritation to the eyes, upper respiratory tract, mouth and digestive tract. Obtain medical attention if discomfort continues. Remove affected person from source of contamination.

The following recommendations apply to sources of exposure:

Inhalation	Remove to fresh air, and keep affected person at rest. Obtain medical attention if irritation to respiratory tract is severe and adversely affects breathing.
Ingestion	Rinse out mouth thoroughly. Do not induce vomiting. Obtain medical attention immediately.
Skin Contact	Remove contaminated clothing, and wash skin with soap and water. Clothing must be laundered before reuse. If irritation persists, obtain medical attention.
Eye Contact	Flush eyes with clean water for at least 15 minutes. Do not rub or agitate the affected area.

5. FIRE FIGHTING MEASURES

Hazardous combustion products may include carbon monoxide (CO) and carbon dioxide (CO_2), as well as combustion products of nitrogen and chlorine

Extinguishing Media:	Foam or dry chemical powder. Carbon dioxide, sand or earth can be used for small fires. Keep containers exposed to the fire cool by spraying with water. The danger zone should be cleared immediately.
Protective Equipment	Proper protective equipment including breathing apparatus must be worn when approaching a fire.
Safety Hazards	Decomposition of product may lead to fume formation.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions	Avoid inhalation of vapour and aerosol spray. Avoid contact with eyes, and prolonged skin contact. Ensure adequate ventilation is provided. In the event of a spill, beware of slippery surfaces.
Environmental precautions	Do not allow environmental contamination to occur. Avoid disposal (accidental or incidental) of product into drains, sewers, rivers and other water sources, and onto the ground. Use appropriate spill containment measures to avoid environmental contamination. Inform local authorities if this cannot be prevented. Use sand, earth or other appropriate absorbent material to contain spills. The product should not be dumped, but collected and delivered according to agreement with local authorities.
Spill clean-up / containment	Stop product leak if possible to do so without risk. Extinguish all ignition sources, and ensure adequate ventilation. The product in its liquid form can be contained by creating a barrier using sand, earth or other appropriate containment material. Collect with absorbent, non-combustible material into suitable containers. Do not allow run-off into sewers and drains. Dispose of material according to agreement with local authorities. Inform authorities immediately if the liquid enters surface water sources.

7. HANDLING AND STORAGE

USAGE PRECAUTIONS

Ensure good personal hygiene when handling product. Wash hands, clothing and other contaminated areas with water and soap before leaving the work site to minimize spread of contamination. Do not eat, drink or smoke when using the product. Avoid forming sprays / aerosol mists. Ensure adequate ventilation is provided when product is being used. Ensure personal protective equipment is used where necessary.

STORAGE CONDITIONS

Store the product in its original container, and ensure that the container is tightly closed and kept upright. Store in a cool, dry, and well-ventilated area. Ensure that the relevant spill containment apparatus is available. Exposure to excessive temperatures should be avoided. Water contamination should be avoided.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

PROTECTIVE EQUIPMENT

The following personal protective equipment is applicable:



ENGINEERING MEASURES
Provide adequate ventilation. Observe occupational exposure limits and minimize risk of inhalation of vapour.

RESPIRATORY EQUIPMENT
The use of respiratory equipment under normal operating conditions is not required. Should operating conditions create airborne concentrations that are excessive, the use of an approved respirators such as toxic dust, mist and fume respirators are recommended.

HAND PROTECTION
The use of chemical-resistant, nitrile or butyl rubber gloves is recommended.

EYE PROTECTION
The use of tightly-fitted safety goggles / glasses is recommended when splashing is probable.

OTHER PROTECTION
Wear appropriate clothing to prevent repeated or prolonged skin contact.

HYGIENE MEASURES
Wash contaminated clothing promptly and before reuse. Wash skin with soap and water upon contamination.

OCCUPATIONAL EXPOSURE
Workplace exposure limits as outlined below:

Components	Type	Control parameters	Update	Basis
1,1-dichloro-2-chlorethylene	TWA	100 ppm	12 2009	OSHA
	STEL	200 ppm (1070 $mg.m^{-3}$)	12 2009	OSHA
Dichloromethane	TWA	25 ppm (8 hr)	12 2009	OSHA
	STEL	125 ppm	12 2009	OSHA

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical state and appearance	liquid at ambient temperature
Odour	ether
Solubility	Insoluble in water
Vapour density (air = 1)	3.21 (Heavier than air)
Viscosity at 40ºC	< 5 cSt (typical)

Density at 20ºC	1139 kg.m^{-3} (typical)
Flash Point	not applicable

10. STABILITY AND REACTIVITY

Stability	The product is stable.
Materials to avoid	Strong oxidising agents
Conditions to avoid	Extremes of temperatures.
Hazardous Decomposition Products	None under normal conditions known

11. TOXICOLOGICAL INFORMATION

HEALTH WARNINGS
The product can be hazardous when inhaled or touched. May cause internal injury. Vapour from product is hazardous when inhaled.

ROUTES OF ENTRY
Inhalation. Ingestion. Skin or eye contact.

TOXICOLOGICAL DATA

Acute toxicity - Oral	LD50 expected to be > 1600 mg/kg
- Dermal	LD50 expected to be > 1200 mg/kg
Inhalation	Not considered a hazard under normal use
Eye Irritation	Can be slightly irritating
Skin Irritation	Can be slightly irritating upon prolonged exposure.
Respiratory Irritation	If mists are inhaled, slight irritation of the respiratory tract may occur.
Carcinogenicity	Not known to be carcinogenic.
Mutagenicity	Not considered to be a mutagenetic hazard.
Reproductive toxicity	Not considered to be a hazard.

12. ECOLOGICAL INFORMATION

ECOTOXICITY
The product may cause physical fouling of the aquatic environment, and may present risks associated with oil spills.

BIOACCUMULATION
The product has the ability to bioaccumulate. No available data on bioaccumulation.

DEGRADABILITY
No available data on degradability.

13. DISPOSAL CONSIDERATIONS

Waste relating to the product is considered hazardous, and should be disposed off according to regulations as stipulated by local authorities.

14. TRANSPORTATION INFORMATION

This product is classified as flammable, and should be transported under conditions as outlined in the requirements for transportation of hazardous material.

UN No : 1593

Class	: 6.1
Packaging Group	: III
Description	: Dichloromethane

15. REGULATORY INFORMATION

Risk phrases	R40, R52/53
Safety phrases	S2, S3, S36/37, S61

16. OTHER INFORMATION

Validated by	: GUD Holdings (Pty) Ltd
Validation date	: August 2026
Revision number	: 03
Revision date	: August 2026

RISK PHRASES IN FULL

R40	: Limited evidence of a carcinogenic effect
R52/53	: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment

SAFETY PHRASES IN FULL

S2	: Keep out of the reach of children
S23	: Do not breathe in vapour/spray
S36/37	: Wear suitable protective clothing and gloves
S61	: Avoid release to the environment