

MATERIAL SAFETY DATA SHEET

EC-Clean

1. IDENTIFICATION

COMPANY: ITW CHEMIN, ITW INDIA LIMITED
 ADDRESS: PLOT NO 34 – 37, PHASE – 2
 APIIC, PASHAMMYLARAM
 MEDAK – 502 307 INDIA.
 TELEPHONE: 91 – 8455 – 224700
 FAX 91 – 8455 – 224705
 PACKAGES: Aerosol
 PRODUCT USE: Cleaner for Electrical \Electronic fine parts.
 NFPA RATING: Health 1, Flammability1 (Aerosol 4), Reactivity 0.
 REVISION DATE: 15 July '2008

2. HAZARDOUS INGREDIENTS:

	Wt/Wt%	CAS#	TLV	PEL	LD 50	LC 50
ISOPROPYL ALCOHOL:	40-50%	67-63-0	400ppm	400ppm	3.6g/kg (oral/mouse)	not avail
HEXANES:	60-50%	110-54-3	500ppm	500ppm	28.7g/kg (oral/rat)	not avail
ISO BUTANE (PROPELLANT):	30%	75-28-5	not avail	1000ppm	not avail	not avail

3. HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

Volatile liquid, vapor may irritate the skin and respiratory tract and Flammable.

POTENTIAL HEALTH EFFECTS

Skin Contact: Can irritate by removing natural skin oils on long or repeated exposure. Possible local redness

Eyes: May irritate, experiencing as stinging and discomfort or pain.

Inhalation: Vapors may cause irritation of the respiratory tract, with coughing and chest discomfort, high concentrations of vapor may cause headache

Ingestion: Not significant in small (mouthful) quantities.

Medical conditions known to be aggravated by exposure to product: None

4. FIRST AID

Skin Contact: Wash off with soap and water .Remove contaminated clothing.

Eyes: Rinse carefully under upper and lower eyelids using plenty of water. Obtain medical attention

Inhalation: Remove to fresh air .Give artificial respiration if not breathing, if breathing difficult, oxygen may be given by qualified personnel.

Ingestion: Induce vomiting. If patient fully conscious give two glass of water.

NOTE: In all severe cases, contact physician immediately.

5. FIRE HAZARD

Conditions of flammability: Flammable

Flash point: -12 deg C (Tag closed cup)

Flammable limits in air: 2% to 12.7%

Extinguishing media: Apply alcohol type or all purpose type foam for large fires. Carbon dioxide or dry chemical media for small fires.

Special fire fighting procedures: Keep containers cool with water spray. Use water spray to disperse vapors or it might reignite.

Use self-contained breathing apparatus and protective clothing

Hazardous combustion products: oxides of carbon

Unusual fire hazards: Vapors form may travel or be removed by air currents and ignite by pilot fire, other flames at distant locations
Vapors from this material may settle in low or confined areas this material may produce a floating fire hazard.

6. ACCIDENTAL RELEASE MEASURES

Extinguish and does not turn on any ignition source until clean up. Mop up or sweep up. with absorbent, flush with large amounts of water
(For disposal, see Section 13)

7. HANDLING AND STORAGE

Store away from heat, flame and sparks. Avoid eye contact. Avoid repeated or prolonged skin contact. Avoid breathing spray mist.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Controls: None, unless sprayed. Use where ventilation will carry spray mist away from occupied areas.
Personal protection: Wear safety glasses with side shields to protect eyes. Wear plastic, rubber gloves if hand exposure is unavoidable.
Wear protective clothing such as long sleeves to minimize skin contact

9. PHYSICAL PROPERTIES

Initial boiling point (bulk): Min. 82 deg C Vapor density: Heavier than air (2.07)
Percent volatile: 100% at room temperature Evaporation rate: 2.88
Water solubility: 0 (emulsifies into water) Appearance: Clear, colorless liquid
pH: Neutral Odor: Characteristic
Vapor pressure: Bulk: 33 mm@ 70 deg F (21 deg C)

10. STABILITY AND REACTIVITY

Stability: Stable
Incompatibility: Strong oxidizing agents, halogens and its compounds, strong inorganic acids, aldehydes
Hazardous decomposition products: oxides of carbon
Reactivity: None

11. TOXICOLOGICAL INFORMATION

Carcinogenicity: Contains no known or suspected carcinogens listed with OSHA, IARC, NTP or ACGIH
Threshold limit value: 983 mg/cubic meter

12. ECOLOGICAL INFORMATION:

None as per CERCLA

13 DISPOSALS

Non hazardous waste as per classification in The Hazardous Wastes (Management and Handling) Rules 1989, of CPB, India
Incinerate in a furnace where permitted as per local regulations, at low concentration in water product is biodegradable.

14. TRANSPORTATION

Labels Required

Flammable gas

HAZCHEM

2Y

Land Transport UNDG:

Dangerous Goods Class: 2.1

Sub risk: None

UN Number: 1950

Packing Group: None

Shipping Name: AEROSOLS

Air Transport IATA:

ICAO/IATA Class: 2.1

ICAO/IATA Sub risk: None

UN/ID Number: 1950

Packing Group: None

ERG Code: 10L

Shipping Name: Aerosols, flammable

Maritime Transport IMDG:

IMDG Class: 2

IMDG Sub risk: SP63

UN Number: 1950

Packing Group: None

EMS Number: F-D, S-U

Marine Pollutant: Not Determined

Shipping Name: AEROSOLS

15. REGULATORY INFORMATION

TSCA: All ingredients are listed in TSCA inventory

CERCLA: Not reportable

SARA TITLE III, Section 313: No reportable ingredients

California Proposition 65: Contains nothing on this list

EEC Labeling information:

Hazard Symbols:

Irritant.

Risk phrases:

R36\37/38: Irritating to eyes, respiratory system and Skin.

Safety phrases:

S24\25: Avoid contact with skin and eyes.

S26\28: In case of contact with eyes and skin, rinse immediately with plenty of water and seek medical advice.

16. **OTHER INFORMATION:**

Risk phrases used in Sec.3:

R12 Extremely Flammable

R36/37/38: Irritating to Eyes, Respiratory system and skin.

R67: Vapors may cause drowsiness and dizziness

Revision Statement: Review

Supersedes: MSDS dated 4 th June, 2008