

SAFETY DATA SHEET

APPLIED 8080 Electrical Safety Solvent

Infosafe No.: 5APE3
ISSUED Date : 29/06/2016
ISSUED by: ITW POLYMERS & FLUIDS

1. IDENTIFICATION

GHS Product Identifier

APPLIED 8080 Electrical Safety Solvent

Product Code

A8080

Company Name

ITW POLYMERS & FLUIDS (ABN 63 004 235 063)

Address

100 Hassall Street Wetherill Park
NSW 2164 Australia

Telephone/Fax Number

Tel: 1800 063 511; +61 2 9757 8800

Fax: 1800 803 596; +61 2 9757 3855

Emergency phone number

1800 385 556 / 0438 465 960

E-mail Address

info@itwpcf.com.au

Recommended use of the chemical and restrictions on use

Solvent cleaner designed for cleaning applications where water is undesirable or hazardous e.g. electrical equipment

Disclaimer

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Websites:

www.itwpcf.com.au

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Fluid Chemicals NZ

5A Andrew Baxter Drive, Airport Oaks, Auckland, 2150

Postal Address: P.O. Box 201185, Auckland Airport, 2150, New Zealand

EMERGENCY TEL: 0800 154 666

2. HAZARD IDENTIFICATION

GHS classification of the substance/mixture

Classified as Hazardous according to the Globally Harmonised System of Classification and Labelling of Chemicals (GHS) including Work, Health and Safety Regulations, Australia.

Classified as Dangerous Goods according to the Australian Code for the Transport of Dangerous Goods by Road and Rail. (7th edition)

Aspiration Hazard: Category 2

Carcinogenicity: Category 2

STOT Single Exposure: Category 3 (respiratory tract irritation)

Signal Word (s)

WARNING

Hazard Statement (s)

May be harmful if swallowed and enters airways.
May cause respiratory irritation.
Suspected of causing cancer.

Pictogram (s)

Health hazard, Exclamation mark

**Precautionary statement – Prevention**

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.
Avoid breathing dust/fume/gas/mist/vapours/spray.
Use only outdoors or in a well-ventilated area.
Use personal protective equipment as required.

Precautionary statement – Response

IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
Do NOT induce vomiting.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
IF exposed or concerned: Get medical advice/attention.
Call a POISON CENTER or doctor/physician if you feel unwell.

Precautionary statement – Storage

Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Ingredients

Name	CAS	Proportion
Tetrachloroethylene	127-18-4	30-60 %
Dichloromethane	75-09-2	1-10 %
Aliphatic Solvent	64742-88-7	30-60 %

4. FIRST-AID MEASURES

Inhalation

Remove victim from exposure - avoid becoming a casualty. Remove contaminated clothing and loosen remaining clothing. Allow patient to assume most comfortable position and keep warm. Keep at rest until fully recovered.
If symptoms develop, seek urgent medical attention.
If victim is not breathing, apply artificial respiration and seek urgent medical attention.

Ingestion

Do not induce vomiting as this may increase the risk of aspiration into lungs causing chemical pneumonitis. If vomiting occurs, keep victim's head lower than hips to prevent aspiration. Never give anything by mouth to unconscious person. If victim is conscious, wash victim's mouth with water, and give victim one or two glasses of water. Get medical attention immediately

Skin

Remove contaminated clothing, shoes and socks immediately. Flush with a large amount of water and soap or mild detergent for at least 15 minutes until no evidence of chemical remains. Get medical attention.

Eye contact

Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open.
Seek medical attention.

Advice to Doctor

Treat symptomatically based on individual reactions of patient.
In case of ingestion: Give activated charcoal in slurry.

5. FIRE-FIGHTING MEASURES

Specific Hazards Arising From The Chemical

Non flammable.

Fire fighters to wear self-contained breathing apparatus if risk of exposure to vapour or products of combustion.

Use CO₂, dry chemical dry powder or water fog.

Use water fog to keep the substance cool.

Keep containers cool with water spray.

Prevent contamination of drains or waterways, absorb runoff with sand or similar.

Vapours are heavier than air and may spread near ground. The product is non-combustible. If heated, corrosive and toxic vapours/gases may be formed.

May liberate toxic gases such as hydrogen chloride and phosgene by contact with flame.

Hazchem Code

2[Z]

6. ACCIDENTAL RELEASE MEASURES

Spills & Disposal

Shut off all possible sources of ignition.

Work upwind.

Increase ventilation.

Evacuate unprotected personnel from danger area.

Contain using sand and earth - prevent runoff into drains and waterways.

Use absorbent (soil or sand, sawdust, inert material, vermiculite).

Collect and seal in properly labelled drums for disposal.

Wear full protective equipment to prevent skin and eye contact.

Wear type A organic vapour respirator to absorb harmful vapours.

7. HANDLING AND STORAGE

Precautions for Safe Handling

Ensure an eye bath and safety shower are available and ready for use. Observe good personal hygiene practices and recommended procedures. Wash thoroughly after handling. Avoid contact with eyes, skin and clothing. Do not inhale product vapours. Avoid prolonged or repeated exposure. Avoid spilling. Risk of vapour concentration on the floor and in low-lying areas. Keep away from heat, sparks and open flame.

Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated area. Keep containers tightly closed when not in use. Inspect regularly for deficiencies such as damage or leaks. Protect against physical damage. Keep away from heat, sparks and open flame. Protect from light, including direct sun rays. Store in a cool place.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limit values

Substance	Regulations	Exposure Duration	Exposure Limit	Units	Notes
Tetrachloroethylene		TWA	50	ppm	
Tetrachloroethylene		TWA	340	mg/m ³	
Tetrachloroethylene		STEL	150	ppm	
Tetrachloroethylene		STEL	1020	mg/m ³	
Dichloromethane		TWA	50	ppm	
Dichloromethane		TWA	174	mg/m ³	

Biological Limit Values

No biological limit value established in Australia, however the following values have been established in Germany and USA for trichloroethylene.

Germany (1991): Trichloroethanol in blood 5 mg/L at end of exposure or end of shift.

Trichloroacetic acid in urine 100 mg/L at end of exposure or end of shift.

ACGIH (1991): Trichloroacetic acid in urine 100 mg/g creatinine at the end of shift at the end of the workweek, as an indicator of integrated weekly exposure to trichloroethylene.

Trichloroacetic acid and trichloroethanol in urine 300 mg/g creatinine with sampling time end of shift at end of workweek, as an indicator of integrated exposure to trichloroethylene.

Free trichloroethanol in blood 4 mg/L at end of shift at end of workweek, as an indicator of recent exposure.

Biological exposure indices (BEIs) represent the concentration of chemicals in the body that would correspond to inhalation exposure at a specific concentration in air. Biological monitoring of exposure to chemicals in the workplace is an important component of exposure assessment and prevention of adverse health effects. It should be employed in conjunction with ambient air monitoring to provide information on the absorbed dose of a chemical substance and the effect of all routes of exposure. BEIs are reference values intended to be used as guidelines for the evaluation of potential health hazards.

Appropriate Engineering Controls

Use with local exhaust ventilation or while wearing appropriate respirator.

Personal Protective Equipment

Avoid inhalation, eye contact, and repeated or prolonged skin contact.

Wear splash-proof goggles, PVA Polyvinyl alcohol/Viton gloves and Type A (Organic vapour) respirator. When using large quantities wear coveralls.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance

A water white liquid with chlorinated solvent odour.

Melting Point

Not applicable

Boiling Point

77°C initial

Specific Gravity

1.60 at 20°C

pH

Not applicable.

Vapour Pressure

Not Required

Volatile Component

100%

Flash Point

Not applicable

Flammability

Non flammable liquid - explosive vapour. Aerosol may explode when heated. May evolve toxic gases (chlorides, hydrogen chloride, phosgene, carbon oxides) when heated.

10. STABILITY AND REACTIVITY

Chemical Stability

Product is stable under normal conditions of use, storage and temperature

Conditions to Avoid

Avoid exposure to high temperatures or direct sunlight.

Incompatible materials

Most plastic materials.

Hazardous Decomposition Products

Vinyl chloride, hydrogen chloride, phosgene, and carbon monoxide

Possibility of hazardous reactions

Incompatible with oxidising agents (eg. hypochlorites, peroxides), acids (eg. nitric acid), alkalis, heat and ignition sources. May ignite explosively with Aluminium, Magnesium or strong base

Hazardous Polymerization

Will not polymerise

11. TOXICOLOGICAL INFORMATION

Acute Toxicity - Oral

For the ingredient: Trichloroethylene- LD50(Oral rat) 5400-7200 mg/kg

Acute Toxicity - Inhalation

For the ingredient: Trichloroethylene - Inhalation LC50 (rat) 12000 ppm (4 h)

Acute Toxicity - Dermal

For the ingredient: Trichloroethylene LD50 (Dermal rabbits) 29000 mg/kg

Ingestion

Moderately toxic-narcotic.

Ingestion may result in nausea, vomiting, abdominal pain, diarrhoea.

Large doses: drowsiness, liver/kidney damage and unconsciousness.

Inhalation

Toxic-irritant-narcotic.

Over exposure may result in upper respiratory tract irritation, nausea, headache and at high levels: dizziness, breathing difficulties, anaesthesia,

cardiac arrhythmias, pulmonary oedema and unconsciousness. Chronic exposure may result in liver, kidney and nerve damage.

Skin

Irritant - Toxic

Prolonged contact may result in drying and defatting of the skin, rash and dermatitis. Toxic effects may result from skin absorption.

Eye

An eye irritant.

Contact may result in lacrimation, irritation, pain, irritation, redness and conjunctivitis.

Prolonged contact- corneal burns and possible permanent damage.

Skin Sensitisation

For the ingredient Trichloroethylene: No skin sensitisation studies have been conducted in animals.

Carcinogenicity

Limited evidence of carcinogenic effects.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Avoid contamination of waterways.
Active ingredient is toxic to the aquatic environment.

Persistence and degradability

Biodegradability properties are unknown.

13. DISPOSAL CONSIDERATIONS

Waste Disposal

Refer to Waste Management Authority in your state. Dispose of material through a licenced waste contractor.

Container Disposal

Dispose of container with drum recycler.
Decontaminate the container by allowing it to drain thoroughly. Rinse with hot water and detergent. Retain rinsings for disposal by licenced waste contractor.

14. TRANSPORT INFORMATION

Transport Information

Dangerous Goods of Class 6 Toxic and Infectious Substances are incompatible in a placard load with any of the following: - Class 1, Class 3, if the Class 3 dangerous goods are nitromethane, Class 8, if the Class 6 dangerous goods are cyanides and the Class 8 dangerous goods are acids, and are incompatible with food packaging in any quantity.

U.N. Number

1897

UN proper shipping name

TETRACHLOROETHYLENE

Transport hazard class(es)

6.1

Packing Group

III

Hazchem Code

2[Z]

EPG Number

6B7

IERG Number

37

15. REGULATORY INFORMATION

Poisons Schedule

S6

Australia (AICS)

All ingredients listed.

16. OTHER INFORMATION

Date of preparation or last revision of SDS

Replaces SDS dated 2012

References

International Maritime Dangerous Goods Code.

International Air Transport Association Dangerous Goods Regulations.
Sigma-Aldrich Library of Chemical Safety Data 2nd Ed (1988)., Lenga, Robert
Dangerous Properties of Industrial Materials 5th Ed (1979)., Sax, N.I.
Globally Harmonised System of Classification and Labelling of Chemicals,ST/SG/AC.10/30, United Nations 2003
Supplier Safety Data Sheets

Contact Person/Point

This Safety Data Sheet summarises at the date of issue to the best of our knowledge, the health and safety hazards of the product and how to safely handle and use the product.

As ITW Polymers & Fluids cannot anticipate or control the conditions under which the product is used, customers are encouraged, prior to usage, to assess and control the risks associated with their use of the product.

Data sheets from unauthorised sources may contain information that is no longer current or accurate.

This SDS is valid for 5 years from date of issue. However, this version may be revoked and revised at any time, and users should contact ITW Polymers & Fluids to ensure they are in possession of the latest version.

User Codes

User Title Label	User Codes
Field 2	LM 16/12/97

Revisions Highlighted

Updated information layout to comply with NOHSC 16 header format requirements.

END OF SDS

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