

SAFETY DATA SHEET

AEROSEAL TF

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Identification of Product	:	One component modified contact solvent base adhesive specially formulated for bonding Aeroflex closed cell insulation and other Elastomeric Thermal Insulation
Trade Name	:	AEROSEAL TF
Manufacturer/Supplier	:	AEROFLEX CO., LTD 111/7, 111/11 Mu 2 Tambol Makhamku, Amphur Nikompattana, Rayong Thailand. 21180
Telephone Number	:	66-3891-7111-120
Fax Number	:	66-3891-7121
Email Address	:	marketing@aeroflex.co.th

SECTION 2 — HAZARDS IDENTIFICATION

Form & Order

Polychloroprene and phenolic resin in vaporized organic solvent.

GHS Classification

Classification in Accordance with Regulation (EC) No 1272/2008 (CLP)

Flammable liq, Cat 2; Skin irritation, Cat 2; Reproduction toxic, Cat 2; Spec. target organ toxicity(single): Cat 3 Narcotic effect; Spec. target organ toxicity(repeated): Cat 3 Central nervous; Aspiration hazard, Cat 1; Aquatic toxicity: Acute+Chronic

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Hazard Pictograms



GHS02



GHS07



GHS08



GHS09

Signal Word

Danger

Hazardous Component(s) to be indicated on Label:

Polychloroprene and phenolic resin in vaporized organic solvent

GHS Hazard Statements

Physical Hazard:

H225 Highly flammable liquid and vapour

Health Hazard:

H304 May be fatal if swallowed and enters airways

H315 Causes skin irritation

H336 May cause drowsiness or dizziness

H361 Suspected to damaging fertility or the unborn child

H373 May cause damage to organs

Environment Hazard:

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effect.

GHS Precautionary Statements

Physical Hazard:

H225 Highly flammable liquid and vapor

Prevention:

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

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- P233 Keep container tightly closed.
 - P240 Ground/bond container and receiving equipment.
 - P241 Use explosion-proof electrical/ventilating/lighting equipment.
 - P242 Use only non-sparking tools.
 - P243 Take precautionary measures against static discharge.
 - P280 Wear protective gloves/protective clothing/eye protection/face protection.
 - P264 Wash hands thoroughly after handling.
 - P201 Obtain special instructions before use.
 - P202 Do not handle until all safety precautions have been read and understood.
 - P281 Use personal protective equipment as required.
 - P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 - P271 Use only outdoors or in a well-ventilated area.
 - P260 Do not breathe dust/fume/gas/mist/vapors/spray.
 - P273 Avoid release to the environment exposure. Central nervous system (CNS), Peripheral nervous system.

Response:

- P303+P361+P353 IF ON SKIN (or hair): Remove/take off immediately all contaminated clothing. Rinse skin with water/shower.
- P370+P378 In case of fire: Use appropriate media for extinction.
- P302+P352 If ON SKIN: Wash with plenty of soap and water.
- P321 Specific treatment (see details on label).
- P332+P313 If skin irritation occurs: Get medical advice/attention.
- P362 Take off contaminated clothing and wash before reuse.
- P308+P313 If exposed or concerned, get medical advice/attention.
- P304+P340 If INHALED: Remove to fresh air and keep at rest in a position comfortable for breathing.
- P312 Call a POISON CENTER or doctor/physician if you feel unwell.
- P314 Get medical advice/attention if you fell unwell.
- P301+P310 If SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
- P331 Do NOT induce vomiting.
- P391 Collect spillage.

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Storage:

P403+P235 Store in a well-ventilated place. Keep cool.

P405 Store locked up.

P233 Keep Container tightly closed.

Disposal:

P501 Dispose of contents and container to appropriate waste site or recycler in accordance with local and national regulations.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

No.	Substance Name		Additional Information	
	Cas No./EC No.	Hazardous Classification	Concentration	%
1	Acetone			
	67-64-1 200-662-2	H225	7 - 13	%wt
2	Ethyl Acetate			
	141-78-6 205-500-4	H225	17 - 23	%wt
3	Naphtha			
	64742-49-0 271-418-0	H225, H304, H315, H336, H361, H373, H401, H411	28 - 34	%wt

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No.	Substance Name		Additional Information	
	Cas No./EC No.	Hazardous Classification	Concentration	%
4	Methyl Ethyl Ketone			
	78-93-3 201-59-0	H225	13 - 19	%wt

SECTION 4 — FIRST AID MEASURES

Skin Contact: Wash with a clean rag soaked in Acetone or Ethyl Acetate and then with plenty of water, soap.

Eye Contact: Immediately flush eyes well with copious amounts of running water for at least 10 minutes, then seek medical attention.

Inhalation: Take to fresh air and seek medical attention.

Ingestion: Do not induce vomiting. Consult doctor if complaint persists.

SECTION 5 — FIRE FIGHTING PROCEDURES

Flammable: YES NO

Suitable Extinguishing Media: Foam, Dry Chemical, CO2

Exposure Hazard: Avoid proximity or contact with hot surfaces, flames and sparks.
Possible increase of pressure in sealed containers due to heat.
Heating may cause an explosion.

Special Equipment: Pressure demand self contained breathing apparatus should be provided to fire fighters in building or confined area where this material is stored. Do not use water in a jet.

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SECTION 6 — ACCIDENTAL RELEASE MEASURES

- Precautions with Respect to Individuals:** Ventilate working area.
Remove sources of ignition.
Avoid contact with skin, eyes, and clothing.
- Precautions with Respect to Environment:** Avoid discharge into the environment.
- Cleaning Up Spillage:** Collect the product in inert filler (sand, sawdust) and put it in marked closed containers.

SECTION 7 — HANDLING AND STORAGE

- Handling Procedures and Equipment:** Keep containers tightly closed. Do not eat, drink or smoke when handling.
- Storage Requirements:** Do not expose to direct sunlight. Keep in a well-ventilated place.
Store away from heat sources, avoid static build up, must be earthed. Keep in cool and dry area, under shade not over 45°C.
- Materials to Avoid:** Strong acids and base (pH < 2 or > 13); Oxidizers

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SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure Control: Ensure for good ventilation/suction.

Individual Protection: Eyes - Safety glasses are recommended.

Hands - Wear protective gloves while working.

Respiration - Ensure adequate ventilation.

Skin - Wear suitable protective clothing

Control Parameters:

Occupational exposure limit values

No.	Substance Name	CAS No.	EC No.
1	Acetone	67-64-1	200-662-2
	List of approved workplace exposure limits (WELs) / EH40		
	STEL	1500 ppm	3620 mg/m3
	TWA	500 ppm	1210 mg/m3
2	Ethyl Acetate	141-78-6	205-500-4
	List of approved workplace exposure limits (WELs) / EH40		
	STEL		400 mg/m3
	TWA		200 mg/m3
3	Naphtha	64742-49-0	265-151-9
	List of approved workplace exposure limits (WELs) / EH40		
	STEL	400 ppm	1800 mg/m3
	TWA	300 ppm	1350 mg/m3
4	Methyl Ethyl Ketone	78-93-3	201-159-0
	List of approved workplace exposure limits (WELs) / EH40		
	STEL	300 ppm	899 mg/m3
	TWA	200 ppm	600 mg/m3

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SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION (Con.)

DNEL and PNEC values

DNEL value (worker)

No.	Substance Name			CAS No./EC No.
	Route of exposure	Exposure Time	Effect	Value
1	Acetone			67-64-1 200-662-2
	Dermal	Long term (chronic)	Systemic	186 mg/kg/day
	Inhalative	Short term (acute)	Local	2420 mg/m3
2	Ethyl Acetate			141-78-6 205-500-4
	Dermal	Long term (chronic)	Systemic	13964 mg/kg/day
	Inhalative	Long term (chronic)	Systemic	13964 mg/m3
3	Naphtha			64742-49-0 265-151-9
	Dermal	Long term (chronic)	Systemic	25.9 mg/kg/day
	Inhalative	Long term (chronic)	Systemic	150 mg/m3
4	Methyl Ethyl Ketone			78-93-3 201-159-0
	Dermal	Long term (chronic)	Systemic	1161 mg/kg/day
	Inhalative	Long term (chronic)	Systemic	600 mg/m3

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SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION (Con.)

DNEL value (Consumer)

No.	Substance Name			CAS No./EC No.	
	Route of exposure	Exposure Time	Effect	Value	
1	Acetone			67-64-1	
				200-662-2	
	Oral	Long term (chronic)	Systemic	62	mg/kg/day
	Dermal	Long term (chronic)	Systemic	62	mg/kg/day
	Inhalative	Short term (acute)	Systemic	200	mg/m3
2	Ethyl Acetate			141-78-6	
				205-500-4	
	Oral	Long term (chronic)	Systemic	4.5	mg/kg/day
	Dermal	Long term (chronic)	Systemic	37	mg/kg/day
	Inhalative	Short term (acute)	Systemic	734	mg/m3
	Inhalative	Long term (chronic)	Local	367	mg/m3
	Inhalative	Short term (acute)	Local	734	mg/m3
3	Naphtha			64742-49-0	
				265-151-9	
	Oral	Long term (chronic)	Systemic	11	mg/kg
	Dermal	Long term (chronic)	Systemic	11	mg/m3
	Inhalative	Long term (chronic)	Systemic	32	mg/m3

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4	Methyl Ethyl Ketone			78-93-3	
				201-159-0	
	Oral	Long term (chronic)	Systemic	31	mg/kg
	Dermal	Long term (chronic)	Systemic	412	mg/m3
	Inhalative	Long term (chronic)	Systemic	106	mg/m3

PNEC values

No.	Substance Name		CAS No./EC No.	
	Ecological Compartment	Type	Value	
1	Acetone		67-64-1	
			200-662-2	
	Water	Fresh water	10.6	mg/l
	Water	Marine water	1.06	mg/l
	Water	Intermittent releases	21	mg/l
	Soil	-	29.5	mg/kg
2	Ethyl Acetate		141-78-6	
			205-500-4	
	Water	Fresh water	0.26	mg/l
	Water	Marine water	0.026	mg/l
	Water	Aqua intermittent	1.65	mg/l
	Water	Fresh water sediment	1.25	mg/kg
	Water	Marine water sediment	0.125	mg/kg
	Soil	-	0.24	mg/kg
	Seawage Treatment Plant	-	650	kg/l
Secondary Poisoning	-	200	mg/kg	

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3	Naphtha		64742-49-0 265-151-9	
	Water	Fresh water	0.0066	mg/l
	Water	Fresh water sediment	0.034	mg/kg
	Soil	-	0.0014	mg/kg
4	Methyl Ethyl Ketone		78-93-3 201-159-0	
	Water	Fresh water	55.8	mg/l
	Water	Fresh water sediment	284.74	mg/kg
	Water	Marine water	55.8	mg/l
	Water	Marine sediment	287.7	mg/kg
	Soil	-	22.5	mg/kg

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Viscous fluid
Color:	Blue-black
Odor:	Characteristic of organic solvent
Flash Point:	-21 °C
Boiling point:	56 °C
Auto-ignition Temperature:	288°C
Thermal Decomposition:	>350 °C
Viscosity (Brookfield) (30°C):	1200 - 1400 CPS
Evaporation Rate (n-Butane = 1) :	>1
pH:	N/A
Solid Contents:	22.5 - 23.5 %

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Storage Life	Up to 6 months in original container
Inflammable:	Yes (Use only in well ventilation place)
Solubility in Water (20°C):	Insoluble
Solubility in Solvent (20°C):	Acetone, M.E.K., Toluene

SECTION 10 — STABILITY AND REACTIVIT

Reactivity:	No dangerous reaction known under normal application condition.
Chemical Stability:	Stable under ambient condition.
Possible hazardous reactions:	N/A
Conditions to Avoid:	Avoid temperature higher than 40°C.
Materials to avoid:	Strong acids and base (pH < 2 or > 13); Oxidizers.
Hazardous decomposition products:	CO, CO ₂ , C _x H _y , and other unknown low molecular weight organic compounds typically found in decomposition of hydrocarbon compounds.

SECTION 11 — TOXICOLOGICAL INFORMATION

Information on the Component:	Contains Ethyl Acetate with LD50 oral rat: 4100 mg/kg. Contains Acetone with LD50 oral rat: 1800 mg/kg. Contains Methyl Ethyl Ketone with LD50 oral rat: 2737 mg/kg.
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SECTION 12 — ECOLOGICAL INFORMATION

Persistence and Degradability:	This product may not be released into the environment.
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SECTION 13 — DISPOSAL CONSIDERATIONS

Waste Disposal: Elimination by incineration is recommended. After mixing with an inert filler (sawdust, sand), treat as a solid industrial waste in agreement with local, regional and national legislation.

SECTION 14 — TRANSPORT INFORMATION

UN Number: 1133

IMDG ID: 3, 2

IATA No: 3

SECTION 15 — REGULATORY INFORMATION

International Inventory Status Einacs: May be commercialized according EEC/92/32 directive.

SECTION 16 — OTHER INFORMATION

This information is based on our current level of knowledge and related to the product in the state in which it is delivered.

It is intended to describe our products from the point of the view of safety requirements and is not intended to guarantee any particular properties.