

AEROFLEX CO., LTD

Date of issue: January 11, 2017

Revision: 04

SDS Number: MC-009

SAFETY DATA SHEET

AEROSEAL TF/HT

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/HT**

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

Classification of the Substance or Mixture

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

Eye Irrit.. 2; H319

Flam. Liq. 2; H225

STOT SE 3; H336

Classification in Accordance with Directive 67/548/EEC or 1999/45/EC

F; R11

R63

R66

R67

Xi; R36

S; (2-) 9-16

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Label Elements

Label according to Regulation (EC) No 1272/2008 (CLP Regulation)

Hazard Pictograms



GHS02



GHS07



GHS08

Signal Word

Danger

Hazardous Component(s) to be indicated on Label:

Chloroprene Rubber, Phenolic Resin, Ethyl Acetate, Naphtha, Methyl Ethyl Benzene

Hazard Statements

H225	Highly flammable liquid and vapour
H304	May be fatal if swallowed and enters airways
H315	Causes skin irritation
H319	Causes serious eye irritation
H332	Harmful if inhaled
H335	May cause respiratory irritation
H336	May cause drowsiness or dizziness
H350	May cause cancer
H373	May cause damage to organs

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Hazard Statements (EU)

EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

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

P233 Keep container tightly closed.

P262 Do not get in eyes, on skin, or on clothing.

P273 Avoid release to the environment.

P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do continue rinsing.

P501 Dispose of contents/container in accordance with local and national regulations.

Other Hazards

Vapours can form an explosive mixture with air.

PBT Assessment

No data available

vPvP assessment

No data available

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Substances

Not applicable. The product is not a substance.

Mixtures

Hazardous Ingredient

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No.	Substance Name			Additional Information	
	Cas/EC/Index/ REACH No.	Classification 67/548/EEC	Classification (EC) 1272/2008	Concentration	%
1	Chloroprene Rubber				
	126-99-8	F; R11	Flam. Liq. 2; Acute Tox. 4	15 - 17	%wt
	204-818-0	R63	Eye Irrit 2; Skin Irrit. 2		
	602-036-00-8	R66	H225; H350; H332; H335		
	–	R67			
2	Phenolic Resin				
	68555-24-8	F; R11	H350	6 - 10	%wt
	271-418-0	R63			
	648-126-00-0	R66			
	–	R67			
3	Acetone				
	67-64-1	F; R11	Flam. Liq. 2; H225	7 - 10	%wt
	200-662-2	R63	Eye Irrit 2; H319		
	606-001-00-8	R66	STOT SE 3; H336		
	–	R67			
4	Ethyl Acetate				
	141-78-6	F; R11	Flam. Liq. 2; H225	15 - 20	%wt
	205-500-4	R63	Eye Irrit 2; H319		
	607-022-00-5	R66	STOT SE 3; H336		
	–	R67			

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No.	Substance Name			Additional Information	
	Cas/EC/Index/ REACH No.	Classification 67/548/EEC	Classification (EC) 1272/2008	Concentration	%
5	Naphtha				
	64742-49-0	F; R11	Carc. 1B; H350	18 - 41	%wt
	271-418-0	R63	Asp. Tox. 1; H304		
	648-126-00-0	R66			
	–	R67			
6	Methyl Ethyl Ketone				
	78-93-3	F; R11	H530	15 - 20	%wt
	201-59-0	Xi; R63			
	606-002-00-3	R66			
	–	R67			

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.

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SECTION 5 — FIRE FIGHTING PROCEDURES

Flammable: YES NO

Suitable Extinguishing Media: Foam, Dry, 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.

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.

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SECTION 8 — EXPOSURE CONTROL / PERSONAL PROTECTION

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/m ³
	TWA	500 ppm	1210 mg/m ³
2	Ethyl Acetate	141-78-6	205-500-4
	List of approved workplace exposure limits (WELs) / EH40		
	STEL		400 mg/m ³
	TWA		200 mg/m ³
3	Naphtha	64742-49-0	265-151-9
	List of approved workplace exposure limits (WELs) / EH40		
	STEL	400 ppm	1800 mg/m ³
	TWA	300 ppm	1350 mg/m ³
4	Methyl Ethyl Ketone	78-93-3	201-159-0
	List of approved workplace exposure limits (WELs) / EH40		
	STEL	300 ppm	899 mg/m ³
	TWA	200 ppm	600 mg/m ³

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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
	Sewage 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
Viscosity (Brookfield) (30°C):	1200 - 1400 CPS
Solid Contents:	22.5 - 23.5 %
Inflammable:	Yes (Use only in well ventilation place)
Solubility in Water (20°C):	Insoluble
Solubility in Solvent (20°C):	Acetone, M.E.K., Toluene
Flash Point:	Less than 5 °C

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SECTION 10 — STABILITY AND REACTIVIT

Condition to Avoid: Keep away from direct to sunlight or high temperature.
Close tight after use.

Materials to Avoid: Avoid contaminating with water or humidity.

Hazardous Decomposition Products: Hydrogen cyanide, Aliphatic hydrocarbons

SECTION 11 — TOXICOLOGICAL INFORMATION

Information on the Component: Contains Methyl benzene and Ethyl acetate.

SECTION 12 — ECOLOGICAL INFORMATION

Persistence and Degradability: This product may not be released into the environment.

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: 3, 2

IATA: 3

Packing Group: III

SECTION 15 — REGULATORY INFORMATION

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

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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.