

Section 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier**

Trade name: AEROSEAL TF/HT
UFI Code: FUF3-7R30-E80K-US4R

1.2 Relevant identified uses of the substance or mixture and uses advised against**Relevant identified uses of the substance:**

Solvent based adhesive specially formulated for bonding thermal insulation products made of flexible elastomeric foam (FEF).

1.3 Details of the supplier of the safety data sheet

nmc Deutschland GmbH
Niederlassung Neu-Ulm
Pfaffenweg 34/1
89231 Neu-Ulm

Tel.: +49 731-93292-0
E-Mail: info-ulm@nmc-deutschland.de

1.4 Emergency telephone number

Vergiftungs-Informationen-Zentrale Freiburg, Tel.: +49 761 19240

Section 2: Hazards identification**2.1 Classification of the substance or mixture****Classification in accordance with Regulation (EC) No 1272/2008 (CLP)**

Flammable liq, Cat 2; Skin irritation, Cat 2; May cause drowsiness or dizziness, Cat3; Causes eye irritation, Cat 2B; 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, Cat 1; Aquatic toxicity: Chronic, Cat1; Acute toxicity

2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008 (CLP)****Hazard pictograms**

GHS02



GHS07



GHS08



GHS09

Signal word

Danger

Hazardous component(s) to be indicated on label:

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

Hazard statements**Physical hazards**

H225 Highly flammable liquid and vapour.

Health hazards

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H361 Suspected of damaging fertility or the unborn child.

H373 May cause damage to organs through prolonged or repeated exposure.

Environmental hazards

H401 Toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements**Prevention**

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

No smoking.

P233 Keep container tightly closed.

P240 Ground and bond container and receiving equipment.

P241 Use explosion-proof electrical/ventilating/lighting equipment.

P242 Use non-sparking tools.

P243 Take action to prevent static discharges.

P264 Wash hands thoroughly after handling.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

Response

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.
Rinse skin with water or shower.

P302+P352 IF ON SKIN: Wash with plenty of water.

P370+P378 In case of fire: Use foam/dry chemical extinguisher/carbon dioxide to
extinguish.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P362 Take off contaminated clothing.

P308+P313 IF exposed or concerned: Get medical advice/attention.

P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for
breathing.

P312 Call a POISON CENTER/doctor if you feel unwell.

P314 Get medical advice/attention if you feel unwell.

P301+P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor.

P331 Do NOT induce vomiting.

P391 Collect spillage.

Storage

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

P405 Store locked up.

Disposal

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

2.3 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**3.1 Substances**

Not applicable. The product is not a substance.

3.2 Mixtures

ingredients

No.	Substance Name		Add. Information	
	CAS / EC No.	Classification (CE) 1272/2008 (CLP)	Concentration	%
1	Naphtha			
	64742-49-0 271-418-0	H225, H304, H315, H336, H361, H373, H401, H411	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, Cat 1; Aquatic toxicity: Chronic, Cat1; Acute toxicity	25 - 30 %wt
2	Ethyl Acetate			
	141-78-6 205-500-4	H225, H315, H336	Flammable liq, Cat 2; Skin irritation, Cat 2; May cause drowsiness or dizziness, Cat3	15 – 16,5 %wt
3	Methyl Ethyl Ketone			
	78-93-3 201-59-0	H225, H315, H336	Flammable liq, Cat 2; Skin irritation, Cat 2; May cause drowsiness or dizziness, Cat3	15 – 16,5 %wt
4	Chloroprene rubber			
	126-99-8 204-818-0	H225, H304, H315, H336, H361, H373, H401, H411	Skin irritation, Cat 2; May cause drowsiness or dizziness, Cat3; 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, Cat 1; Aquatic toxicity: Chronic, Cat1; Acute toxicity	15 – 16,5 %wt
5	Phenolic Resin			
	9003-35-4 611-584-7	H315, H320	Skin irritation, Cat 2; Causes eye irritation, Cat 2B	11 - 12 %wt
6	Acetone			
	67-64-1 200-662-2	H225, H315, H336	Flammable liq, Cat 2; Skin irritation, Cat 2; May cause drowsiness or dizziness, Cat3	7 – 7,2 %wt
7	Additives			2,9 – 2,99 %wt

Section 4: First aid measures**4.1 Description of first aid measures****General information**

In case of persisting adverse effects, consult a physician. Change contaminated, saturated clothing.

After skin contact

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

After eye contact

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

After inhalation

Take to fresh air and seek medical attention.

After ingestion

Do not induce vomiting. Call a doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

No data available.

4.3 Indication of any immediate medical attention

No data available.

Section 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Foam; Dry chemical extinguisher; Carbon dioxide

Unsuitable extinguishing media

High power water jet.

5.2 Special hazards arising from the substance or mixture

In the event of fire, the following can be released: Carbon monoxide (CO); Carbon dioxide (CO₂)

5.3 Advice for firefighters

Pressure demand self-contained breathing apparatus should be provided to fire fighters. Do not use water in a jet.

Section 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Exclude sources of ignition and ventilate the area. Avoid contact with skin, eyes and clothing.

6.2 Environmental precautions

Avoid discharge into the environment.

6.3 Methods and material for containment and cleaning up

Collect the product with inert filler (sand, sawdust) and put it in marked closed containers.

6.4 Reference to other sections

No data available.

Section 7: Handling and storage**7.1 Precautions for safe handling**

Keep containers tightly closed. Do not eat, drink or smoke when handling.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight. Store away from heat sources, avoid static build up, must be earthed.

7.3 Specific end use(s)

No data available.

Section 8: Exposure controls/personal protection**8.1 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 TWA	1500 ml/m ³ (ppm) 500 ml/m ³ (ppm)	3620 mg/m ³ 1210 mg/m ³
2	Chloroprene rubber	126-99-8	204-818-0
	List of approved workplace exposure limits (WELs) / EH40		
	STEL TWA	- 10 ml/m ³ (ppm)	- 36 mg/m ³
3	Ethyl Acetate	141-78-6	205-500-4
	List of approved workplace exposure limits (WELs) / EH40		
	STEL TWA		400 mg/m ³ 200 mg/m ³
4	Naphtha	64742-49-0	265-151-9
	List of approved workplace exposure limits (WELs) / EH40		
	STEL TWA	400 ml/m ³ (ppm) 300 ml/m ³ (ppm)	1800 mg/m ³ 1350 mg/m ³
5	Methyl Ethyl Ketone	78-93-3	201-159-0
	List of approved workplace exposure limits (WELs) / EH40		
	STEL TWA	300 ml/m ³ (ppm) 200 ml/m ³ (ppm)	899 mg/m ³ 600 mg/m ³

DNEL and PNEC values

DNEL values (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/m ³
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/m ³
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/m ³
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/m ³

DNEL values (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/m ³
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/m ³
	inhalative	Long term (chronic)	local	367 mg/m ³
	inhalative	Short term (acute)	local	734 mg/m ³
	inhalative	Long term (chronic)	systemic	367 mg/m ³

No	Substance name			CAS No / EC No
	Route of exposure	Exposure Time	Effect	Value
3	Naphtha			64742-49-0 265-151-9
	oral	Long term (chronic)	systemic	11 mg/kg/day
	dermal	Long term (chronic)	systemic	11 mg/m ³
	inhalative	Long term (chronic)	systemic	32 mg/m ³
4	Methyl Ethyl Ketone			78-93-3 201-159-0
	oral	Long term (chronic)	systemic	31 mg/kg/day
	dermal	Long term (chronic)	systemic	412 mg/m ³
	inhalative	Long term (chronic)	systemic	106 mg/m ³

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	Aqua intermittent	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 (STP)	-	650 kg/l
	Secondary Poisoning	-	200 mg/kg

No	Substance name		CAS No / EC No
	Ecological Compartment	Type	Value
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 water sediment	287.7 mg/kg
	Soil	-	22.5 mg/kg

8.2 Exposure controls

Appropriate engineering controls

No data available.

Personal protective equipment

Respiratory protection

If workplace exposure limits are exceeded, a respiration protection approved for this particular job must be worn. In case of insufficient ventilation and during spray application respiratory protection necessary. In case of aerosol and mist formation, take appropriate measures for breathing protection in the event workplace threshold values are not specified.

Eye / face protection

The use of safety glasses is recommended.

Hand protection

In case of direct contact with the adhesive wear protective gloves.

Other

Normal chemical work clothing.

Environmental exposure controls

No data available.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	viscous fluid
Colour:	black-blue
Odour:	characteristic of organic solvent
Solid content:	22.5 – 23.5 %
Viscosity (Brookfield) (30°C):	1200 – 1400 CPS
Inflammable:	yes (Use only in well ventilated place)
Flashpoint:	< 5 °C
VOC:	68,8 %

Solubility in water (20°C): insoluble
Solubility in solvent (20°C): Acetone, M.E.K., Toluene

9.2 Other information

No data available.

Section 10: Stability and reactivity

10.1 Reactivity

Dangerous reactions are not expecting handling the product according to its intended use.

10.2 Chemical stability

Stable under recommended storage and handling conditions (see section 7).

10.3 Possibility of hazardous reactions

None, if handled according to order.

10.4 Conditions to avoid

No data available.

10.5 Incompatible materials

No data available.

10.6 Hazardous decomposition products

No data available.

Section 11: Toxicological information

11.1 Information on toxicological effects

Acetone 67-64-1	Oral	LD50	5800 mg/kg	rat
Chloroprene rubber 126-99-8	Oral	LD50	450 mg/kg	rat
Ethyl Acetate 141-78-6	Oral	LD50	5620 mg/kg	rat
Methyl Ethyl Ketone 78-93-3	Oral	LD50	2737 mg/kg	rat
Naphta 64742-49-0	Oral	LD50	> 2000 mg/kg	rat

Section 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

This product may not be released into the environment.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT assessment	No data available.
vPvB assessment	No data available.

12.6 Other adverse effects

No data available.

Section 13: Disposal considerations**13.1 Waste treatment methods****Product**

Allocation of a waste code number, according to the European Waste Catalogue, should be carried out in agreement with the regional waste disposal company.

Packaging

Residuals must be removed from packaging and when emptied completely disposed of in accordance with the regulations for waste removal. Incompletely emptied packaging must be disposed of in the form of disposal specified by the regional disposer.

Section 14 : Transport information

UN number:	UN 1133
Class:	3
Classification code:	F1
Packing group:	III
Hazard identification no.:	33
IMDG	3, 2
IATA	3

Section 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture****Regulation (EC) No 1907/2006 (REACH) Annex XIV (List of substances subject to authorisation)**

According to the available data and / or as provided by the upstream suppliers, the product does not contain substances that apply under REACH Regulation (EC) 1907/2006 Annex XIV as substances requiring authorization.

REACH candidate list of substances of very high concern (SVHC) for authorization

According to the available data and / or according to the information provided by the upstream suppliers, the product does not contain any substance (s) listed in the current candidate list of the ECHA.

Regulation (EC) No. 1907/2006 (REACH) Annex XVII: Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

According to the available data and / or the information provided by the upstream suppliers, the product does not contain any substance (s) that are subject to REACH Regulation (EC) 1907/2006 Annex XVII.

15.2 Chemical safety assessment

No data available.

Section 16: Other information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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