

Globally Harmonized System of Classification and Labelling of
Chemicals (GHS)

STAPA NDF 150 Aluminium Paste

Version 4.0

Revision Date 04.05.2023

Print Date 03.12.2024

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : STAPA NDF 150 Aluminium Paste
Material number : 052177AR0

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

This information is not available.

1.3 Details of the supplier of the safety data sheet

Company : ECKART GmbH
Guntersthal 4
91235 Hartenstein
Telephone : +499152770
Telefax : +499152777008
E-mail address : msds.eckart@altana.com
Responsible/issuing person

1.4 Emergency telephone number

NCEC:

(contract no.: ECKART29003-NCEC)

+44 1235 239671 (Middle East/Africa, call and response in your language)

+1 215 207 0061 (Americas, call and response in your language)

+65 3158 1074 (Asia-Pacific, call and response in your language)

SECTION 2: Hazards identification

GHS Classification

: Skin corrosion/irritation, Category 3, H316
Short-term (acute) aquatic hazard, Category 3, H402
Long-term (chronic) aquatic hazard, Category 3, H412

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Long-term (chronic) aquatic hazard, Category 3, H412

GHS-Labeling

Signal word : Warning

Hazard statements : H316: Causes mild skin irritation.
H412: Harmful to aquatic life with long lasting effects.

Precautionary statements : **Prevention:**
P273 Avoid release to the environment.
Response:
P332 + P317 If skin irritation occurs: Get medical help.
Disposal:
P501 Dispose of contents/ container to an approved waste disposal plant.

Hazardous components which must be listed on the label

Other hazards which do not result in classification

Combustible Solids

SECTION 3: Composition/information on ingredients

Substance No. :

Hazardous components

Chemical name	CAS-No. EINECS-No.	Classification and labelling	Concentration[%]
aluminium	7429-90-5 231-072-3	Flam. Sol.;1;H228	50 - 100
Distillates (petroleum), hydrotreated light	64742-47-8	Flam. Liq.;4;H227 ;3;H316	20 - 25

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		Asp. Tox.;1;H304	
Solvent naphtha (petroleum), light arom.	64742-95-6 918-668-5	Flam. Liq.;3;H226 STOT SE;3;H335, H336 Asp. Tox.;1;H304 Aquatic Acute;2;H401 Aquatic Chronic;2;H411	2,5 - 10
1,2,4-trimethylbenzene	95-63-6 202-436-9	Flam. Liq.;3;H226 Acute Tox.;4;H332 Skin Irrit.;2;H315 Eye Irrit.;2B;H320 STOT SE;3;H335 Aquatic Chronic;2;H411	1 - 2,5

For the full text of the H-Statements mentioned in this Section, see Section 16.

SECTION 4: First aid measures
4.1 Description of first aid measures

- General advice : Move the victim to fresh air.
Move out of dangerous area.
Show this safety data sheet to the doctor in attendance.
- If inhaled : Consult a physician after significant exposure.
If unconscious, place in recovery position and seek medical advice.
- In case of skin contact : Wash off immediately with soap and plenty of water.
If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.

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If swallowed

- Flush eyes with water as a precaution.
- Remove contact lenses.
- Keep eye wide open while rinsing.
- If eye irritation persists, consult a specialist.
- : Keep respiratory tract clear.
- Do not give milk or alcoholic beverages.
- Never give anything by mouth to an unconscious person.
- If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

This information is not available.

4.3 Indication of any immediate medical attention and special treatment needed

This information is not available.

SECTION 5: Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Dry sand, Special powder against metal fire

Unsuitable extinguishing media : Water, Foam, ABC powder, Carbon dioxide (CO₂)

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Use personal protective equipment.

Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This

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must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

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

Personal precautions : Evacuate personnel to safe areas.
Use personal protective equipment.
Remove all sources of ignition.
Use personal protective equipment.
Avoid dust formation.
Remove all sources of ignition.

6.2 Environmental precautions

Environmental precautions : The product should not be allowed to enter drains, water courses or the soil.

Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Use mechanical handling equipment.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
Do not flush with water.
Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For personal protection see section 8.

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SECTION 7: Handling and storage
7.1 Precautions for safe handling

- Advice on safe handling : Keep away from heat and sources of ignition. Avoid dust formation. Ensure adequate ventilation.
- Avoid formation of respirable particles. Do not breathe vapours/dust. Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national regulations.
- Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. Earthing of containers and apparatuses is essential.
- Avoid dust formation. Keep away from open flames, hot surfaces and sources of ignition.
- Hygiene measures : When using do not eat or drink. When using do not smoke. Wash hands before breaks and at the end of workday.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a cool, well-ventilated place. Keep container closed when not in use. Keep away from sources of ignition - No smoking.
- No smoking. Keep container tightly closed in a dry and well-ventilated place. Observe label precautions. Electrical installations / working materials must comply with the technological safety standards.
- Further information on storage conditions : Protect from humidity and water. Do not allow to dry.

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Advice on common storage : Do not store together with oxidizing and self-igniting products. Never allow product to get in contact with water during storage. Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

This information is not available.

SECTION 8: Exposure controls/personal protection
8.1 Control parameters
Germany:

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	AGW (Inhalable fraction)	10 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
aluminium	7429-90-5	AGW (Alveolate fraction)	1,25 mg/m ³	2021-07-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Distillates (petroleum), hydrotreated light	64742-47-8	AGW	300 mg/m ³	2017-11-30	DE TRGS 900

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Peak-limit: excursion factor (category)		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixtures Commission for dangerous substances See also No. 2.9 of the TRGS 900			
Distillates (petroleum), hydrotreated light	64742-47-8	AGW	300 mg/m ³	2020-10-02	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
Solvent naphtha (petroleum), light arom.	64742-95-6	AGW	100 mg/m ³	2009-02-16	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixtures Commission for dangerous substances See also No. 2.9 of the TRGS 900			
Solvent naphtha (petroleum), light arom.	64742-95-6	AGW	100 mg/m ³	2009-02-16	DE TRGS 900
Peak-limit: excursion factor (category)		2;(II)			
Further information		Group exposure limit for hydrocarbon solvent mixtures Commission for dangerous substances See also No. 2.9 of the TRGS 900			
1,2,4-trimethylbenzene	95-63-6	TWA	20 ppm 100 mg/m ³	2000-06-16	2000/39/EC
Further information		Indicative			
1,2,4-	95-63-6	AGW	20 ppm	2006-01-01	DE TRGS 900

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trimethylbenzene			100 mg/m ³		
Peak-limit: excursion factor (category)	2;(II)				
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).European Union (The EU has established a limit value: deviations in value and peak limit are possible)When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child				
1,2,4-trimethylbenzene	95-63-6	AGW	50 mg/m ³	2017-11-30	DE TRGS 900
Peak-limit: excursion factor (category)	2;(II)				
Further information	Group exposure limit for hydrocarbon solvent mixturesCommission for dangerous substancesSee also No. 2.9 of the TRGS 900				

United States of America (USA):

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Update	Basis
aluminium	7429-90-5	TWA (total dust)	50 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	TWA (Respirable)	5 mg/m ³	2013-10-08	
aluminium	7429-90-5	TWA (total dust)	15 mg/m ³	2012-07-01	
aluminium	7429-90-5	TWA (total)	10 mg/m ³	2013-10-08	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m ³	2012-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	15 Million particles per cubic foot	2012-07-01	
aluminium	7429-90-5	PEL (Total dust)	10 mg/m ³	2014-11-26	
aluminium	7429-90-5	PEL (respirable dust fraction)	5 mg/m ³	2014-11-26	
aluminium	7429-90-5	TWA (Respirable particulate)	1 mg/m ³	2008-01-01	

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		matter)			
aluminium	7429-90-5	TWA	5 mg/m ³	2005-09-01	
aluminium	7429-90-5	TWA (Total)	15 mg/m ³	1989-01-19	
aluminium	7429-90-5	TWA (Respirable fraction)	5 mg/m ³	1989-01-19	
aluminium	7429-90-5	TWA (total dust)	15 mg/m ³	2011-07-01	
aluminium	7429-90-5	TWA (respirable fraction)	5 mg/m ³	2011-07-01	
aluminium	7429-90-5	TWA (Total dust)	15 mg/m ³	1989-01-19	
aluminium	7429-90-5	TWA (respirable dust fraction)	5 mg/m ³	1989-01-19	
aluminium	7429-90-5	TWA (welding fumes)	5 mg/m ³	2013-10-08	
aluminium	7429-90-5	TWA (pyro powders)	5 mg/m ³	2013-10-08	
aluminium	7429-90-5	TWA (Respirable particulate matter)	1 mg/m ³	2013-03-01	
aluminium	7429-90-5	TWA (Fumes)	5 mg/m ³	1989-01-19	
aluminium	7429-90-5	PEL (Welding fumes)	5 mg/m ³	2017-10-02	
aluminium	7429-90-5	PEL (Pyro powders)	5 mg/m ³	2017-10-02	
aluminium	7429-90-5	TWA (powder)	5 mg/m ³	1989-01-19	
Distillates (petroleum), hydrotreated light	64742-47- 8	TWA	500 ppm 2 000 mg/m ³	2007-01-01	
Distillates (petroleum), hydrotreated light	64742-47- 8	TWA	200 mg/m ³	2010-03-01	
Distillates (petroleum), hydrotreated light	64742-47- 8	TWA	400 ppm 1 600 mg/m ³	1989-01-19	
Distillates	64742-47-	TWA (Mist)	5 mg/m ³	2018-03-15	

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(petroleum), hydrotreated light	8				
Distillates (petroleum), hydrotreated light	64742-47-8	TWA (Mist)	5 mg/m ³	1989-01-19	
Distillates (petroleum), hydrotreated light	64742-47-8	TWA (Mist)	5 mg/m ³	2019-10-04	
Distillates (petroleum), hydrotreated light	64742-47-8	ST (Mist)	10 mg/m ³	2019-10-04	
Distillates (petroleum), hydrotreated light	64742-47-8	PEL (particulate)	5 mg/m ³	2017-12-05	
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2 000 mg/m ³	2007-01-01	
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	500 ppm 2 000 mg/m ³	2007-01-01	
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	200 mg/m ³	2010-03-01	
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	200 mg/m ³	2010-03-01	
Solvent naphtha (petroleum),	64742-95-6	TWA	400 ppm 1 600 mg/m ³	1989-01-19	

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light arom.					
Solvent naphtha (petroleum), light arom.	64742-95-6	TWA	400 ppm 1 600 mg/m ³	1989-01-19	
1,2,4-trimethylbenzene	95-63-6	TWA	25 ppm 125 mg/m ³	2013-10-08	
1,2,4-trimethylbenzene	95-63-6	TWA	25 ppm	2014-03-01	
1,2,4-trimethylbenzene	95-63-6	TWA	25 ppm 125 mg/m ³	1989-01-19	
1,2,4-trimethylbenzene	95-63-6	PEL	25 ppm 125 mg/m ³	2014-11-26	
1,2,4-trimethylbenzene	95-63-6	TWA	10 ppm	2022-01-01	

8.2 Exposure controls

Personal protective equipment

Eye protection : Safety glasses

Hand protection

Material : Solvent-resistant gloves

Remarks : Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).
 The exact break through time can be obtained from the protective glove producer and this has to be observed.
 Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local

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- conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.
- Recommended preventive skin protection
 Skin should be washed after contact.
 The suitability for a specific workplace should be discussed with the producers of the protective gloves.
- Skin and body protection : The suitability for a specific workplace should be discussed with the producers of the protective gloves.
 : Long sleeved clothing
 Safety shoes
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.
- Respiratory protection : Choose body protection according to the amount and concentration of the dangerous substance at the work place.
 : Use suitable breathing protection if workplace concentration requires.
 : In the case of dust or aerosol formation use respirator with an approved filter.

Environmental exposure controls

- General advice : The product should not be allowed to enter drains, water courses or the soil.
 : Prevent product from entering drains.
 Prevent further leakage or spillage if safe to do so.
 If the product contaminates rivers and lakes or drains inform respective authorities.

SECTION 9: Physical and chemical properties
9.1 Information on basic physical and chemical properties

- Appearance : Pasty solid
- Colour : silver

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Odour	: characteristic
pH	: substance/mixture is non-soluble (in water)
Freezing point	: No data available
Boiling point/boiling range	: 140 - 200 °C
Flash point	: No data available
Bulk density	: No data available
Flammability (solid, gas)	: Combustible Solids
Auto-flammability	: not auto-flammable
Auto-flammability	not auto-flammable
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Density	: 1,3 - 2,0 g/cm ³
Solubility(ies)	
Water solubility	: insoluble
Miscibility with water	: immiscible
Solubility in other solvents	: No data available
Partition coefficient: n-octanol/water	: No data available
Ignition temperature	: No data available
Thermal decomposition	: No data available
Viscosity, dynamic	: No data available
Viscosity, kinematic	: No data available
Flow time	: No data available
Explosive properties	: Not explosive Vapours may form explosive mixture with air. Not explosive

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9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

No decomposition if stored and applied as directed.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with alkalis, acids, halogenes and oxidizing agents.
Contact with acids and alkalis may release hydrogen.
Mixture reacts slowly with water resulting in evolution of hydrogen.
Vapour/air-mixtures are explosive at intense warming.

Stable under recommended storage conditions.

10.4 Conditions to avoid

Conditions to avoid : Do not allow to dry.
Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : Acids
Bases
Oxidizing agents
Highly halogenated compounds

10.6 Hazardous decomposition products

Other information : No data available

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Components:****1,2,4-trimethylbenzene :**

Acute inhalation toxicity : The component/mixture is moderately toxic after short term inhalation.

Skin corrosion/irritation**Product**

May cause skin irritation in susceptible persons.

Serious eye damage/eye irritation**Product**

Product dust may be irritating to eyes, skin and respiratory system.

Respiratory or skin sensitisation

No data available

Carcinogenicity

No data available

Toxicity to reproduction/fertility

No data available

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Reprod.Tox./Development/Teratogenicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

No data available

Aspiration toxicity

No data available

Further information**Product**

Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting.,
Concentrations substantially above the TLV value may cause narcotic effects., Solvents may
degrease the skin.

SECTION 12: Ecological information**12.1 Toxicity****Product:**

Ecotoxicology Assessment

Long-term (chronic) aquatic hazard : Harmful to aquatic life with long lasting effects.

Components:

Solvent naphtha (petroleum), light arom. (64742-95-6) :

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Ecotoxicology Assessment

Short-term (acute) aquatic hazard : Toxic to aquatic life.

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

1,2,4-trimethylbenzene (95-63-6) :**Ecotoxicology Assessment**

Long-term (chronic) aquatic hazard : Toxic to aquatic life with long lasting effects.

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

No data available

12.6 Other adverse effects**Product:**

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life with long lasting effects.

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SECTION 13: Disposal considerations**13.1 Waste treatment methods**

- Product : The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
In accordance with local and national regulations.
- Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Do not re-use empty containers.
Do not burn, or use a cutting torch on, the empty drum.
In accordance with local and national regulations.

SECTION 14: Transport information**14.1 UN number****ADR**

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name

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ADR

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

ADR

Not dangerous goods

TDG

Not dangerous goods

CFR

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group

ADR

Not dangerous goods

TDG

Not dangerous goods

CFR

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Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.5 Environmental hazards

14.6 Special precautions for user

Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

No data available

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 59).	: Not applicable
REACH - List of substances subject to authorisation (Annex XIV)	: Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	: Not applicable
Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	: Not applicable
REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	: Banned and/or restricted (aluminium powder (stabilised)) (Distillates (petroleum), hydro-treated light; Kerosine —

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unspecified)
(Solvent naphtha (petroleum), light arom.)
(1,2,4-trimethylbenzene)

15.2 Chemical safety assessment

No data available

SECTION 16: Other information

Full text of H-Statements

H226	: Flammable liquid and vapour.
H227	: Combustible liquid.
H228	: Flammable solid.
H304	: May be fatal if swallowed and enters airways.
H315	: Causes skin irritation.
H316	: Causes mild skin irritation.
H320	: Causes eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H401	: Toxic to aquatic life.
H402	: Harmful to aquatic life.
H411	: Toxic to aquatic life with long lasting effects.
H412	: Harmful to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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