

Safety data sheet

BASF Safety Data Sheet
Date / Revised: 31.07.2017
Product: **ADEXAR®**

(Ref: 30519170/SDS_CPA_00/EN; Version 2.0)

1. Identification of the substance/mixture and of the company/undertaking

Product identifier

ADEXAR®

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

Relevant identified uses: crop protection product, fungicide.

Details of the supplier of the safety data sheet

Company:

BASF New Zealand Limited
Level 4, 4 Leonard Isitt Drive, Auckland Airport, Auckland 2022
P.O. Box 407, Auckland 1140
Phone: + 64 9 255 4300
Fax: + 64 9 255 4307
E-mail address: reception@basf-nz.co.nz

Emergency telephone number

National Poisons Centre: 0800764 766
BASF Emergency Advice Number: 0800 944 955 (24 Hour Advice in an Emergency Only)
BASF Emergency Advice Number: +61 3 8855 6666 (If calling from outside New Zealand)

2. Hazards Identification

Hazard Classification:

6.1D, 6.4A, 6.5B, 6.7B, 6.8B, 6.9B, 9.1A, 9.2D, 9.3C



Signal Word: WARNING

Hazard Statements:

H302	Harmful if swallowed
H320	Causes eye irritation
H317	May cause an allergic skin reaction
H351	Suspected carcinogen
H361	Suspected of damaging fertility or the unborn child from repeated oral exposure at high doses.
H373	May cause damage to organs through prolonged or repeated from repeated oral exposure at high doses.
H410	Very toxic to aquatic life with long lasting effects
H423	Harmful to the soil environment.
H433	Harmful to terrestrial vertebrates.

Precautionary Statements (Prevention):

P102	Keep out of reach of children
P103	Read label before use
P202	Do not handle until all safety precautions have been read and understood
P281	Use personal protective equipment as required
P260	Do not breathe mist/vapours/spray
P270	Do not eat, drink or smoke when using this product
P272	Contaminated work clothing should not be allowed out of the workplace
P264	Wash contaminated body parts thoroughly after handling

Precautionary Statements (Response):

IF exposed or concerned: Call a POISON CENTER or doctor/physician.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Call a POISON CENTER or doctor/physician.

IF ON SKIN (or hair): Wash with plenty of soap and water. Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Call a POISON CENTER or doctor/physician.

IF SWALLOWED: rinse mouth. Do not induce vomit.

To avoid risks to human health and the environment, comply with the instructions for use.

Hazard determining component(s) for labelling: EPOXICONAZOLE, FLUXAPYROXAD

See section 12 - Results of PBT and vPvB assessment.

If applicable information is provided in this section on other hazards which do not result in classification but which may contribute to the overall hazards of the substance or mixture.

3. Composition/Information on Ingredients

Mixtures

Chemical nature

Crop protection product, fungicide, emulsifiable concentrate (EC).

Hazardous ingredients

Epoxiconazole	
(2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane	
Content (W/W): 6 %	Acute Tox. 5 (oral)
CAS Number: 133855-98-8	Carc. 2
EC-Number: 406-850-2	Repr. 2 (fertility)
INDEX-Number: 613-175-00-9	Repr. 2 (unborn child)
	Aquatic Acute 1
	Aquatic Chronic 1
	H303, H351, H361, H400, H410

Fluxapyroxad 3-(difluoromethyl)-1-methyl-N-(3',4',5'-trifluorobiphenyl-2-yl)pyrazole-4-carboxamide Content (W/W): 6 % CAS Number: 907204-31-3	Carc. 2 Aquatic Acute 1 Aquatic Chronic 1 H351, H400, H410
Propanoic acid, 2-hydroxy-, 2-ethylhexyl ester, (2S)- Content (W/W): < 50 % CAS Number: 186817-80-1	Skin Corr./Irrit. 2 Eye Dam./Irrit. 2A Skin Sens. 1B Aquatic Acute 3 H319, H315, H317, H402
Benzyl alcohol Content (W/W): < 25 % CAS Number: 100-51-6 EC-Number: 202-859-9 INDEX-Number: 603-057-00-5	Acute Tox. 4 (oral) Acute Tox. 4 (Inhalation - mist) Eye Dam./Irrit. 2A H319, H332, H302
Dimethyl sulfoxide Content (W/W): < 10 % CAS Number: 67-68-5 EC-Number: 200-664-3 REACH registration number: 01-2119431362-50	Flam. Liq. 4 H227
Solvent naphtha Content (W/W): < 9 % CAS Number: 64742-94-5	Asp. Tox. 1 Flam. Liq. 4 Skin Corr./Irrit. 2 STOT SE 3 (drowsiness and dizziness) Aquatic Acute 2 Aquatic Chronic 2 H227, H315, H304, H336, H401, H411
Poly(oxy-1,2-ethanediyl), .alpha.-[tris(1-phenylethyl)phenyl]-.omega.-hydroxy- Content (W/W): < 8 % CAS Number: 99734-09-5	Acute Tox. 5 (dermal) Aquatic Acute 3 Aquatic Chronic 3 H313, H402, H412
Calcium bis(tetrapropylenebenzenesulphonate) Content (W/W): < 5 % CAS Number: 11117-11-6 EC-Number: 234-360-7	Flam. Liq. 3 Acute Tox. 4 (dermal) Skin Corr./Irrit. 1B Eye Dam./Irrit. 1 Aquatic Acute 3 Aquatic Chronic 3 H226, H312, H314, H402, H412
Alcohols, C11-14-iso-, C13-rich, ethoxylated Content (W/W): < 3 % CAS Number: 78330-21-9	Acute Tox. 4 (oral) Eye Dam./Irrit. 1 Aquatic Acute 1 Aquatic Chronic 2 H318, H302, H411, H400

For the classifications not written out in full in this section the full text can be found in section 16.

4. First-Aid Measures

4.1 Description of first aid measures

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

On skin contact:

Wash thoroughly with soap and water, seek medical attention.

On contact with eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

On ingestion:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11. Further important symptoms and effects are so far not known.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

5.1. Extinguishing media

Suitable extinguishing media:

Water spray, carbon dioxide, foam, dry powder.

Unsuitable extinguishing media for safety reasons:

Water jet

5.2. Special hazards arising from the substance or mixture

Carbon monoxide, carbon dioxide, hydrogen chloride, hydrogen fluoride, nitrogen oxides, organochloric compounds.

The substances/groups of substances mentioned can be released in case of fire.

5.3. Advice for fire-fighters

Special protective equipment:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems. Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Do not breathe vapour/spray. Use personal protective clothing. Avoid contact with the skin, eyes and clothing.

6.2 Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater.

6.3 Methods and material for containment and cleaning up

For small amounts: Pick up with suitable absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

For large amounts: Dike spillage. Pump off product.
 Wear suitable protective equipment. Collect waste in suitable containers, which can be labelled and sealed. Clean contaminated floors and objects thoroughly with water and detergents, observing environmental regulations. Dispose of absorbed material in accordance with regulations.

6.4 Reference to other sections

Information regarding exposure controls/personal protection and disposal considerations can be found in section 8 and 13.

7. Handling and Storage

7.1 Precautions for safe handling

No special measures necessary if stored and handled correctly. Ensure thorough ventilation of stores and work areas. When using do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. Remove contaminated clothing and protective equipment before entering eating areas.

QUALIFICATION:

Any person purchasing, handling or disposing of this product must be suitably qualified.

RECORD KEEPING

Records of use must be kept if 3 litres or more of this product is applied within 24 hours in a place where it is likely to enter air or water and leave the place.

Protection against fire and explosion:

Vapours may form ignitable mixture with air. Prevent electrostatic charge - sources of ignition should be kept well clear - fire extinguishers should be kept handy.

7.2 Conditions for safe storage, including any incompatibilities

Segregate from foods and animal feeds.

Further information on storage conditions: Keep away from heat. Protect from direct sunlight.

Storage stability:

Storage duration: 36 Months

Protect from temperatures below: -10 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

AGGREGATE STORAGE VOLUME THRESHOLDS: When stored with substances of the same hazard the aggregate quantity must be considered. For full details refer to the current standard NZS8409 Management of Agrichemicals or the HSNO Regulations.

Location Certificate*:	Hazardous Atmosphere Zone*:	Fire Extinguishers:	Signage [Hazard Class & Emergency Action]:	Emergency Information:	Emergency Response Plan:	Secondary Containment:
NA	NA	NA	100 litres	5 litres	100 litres	100 litres

* Note: Farms \geq 4 ha are exempt but with controls

DO NOT STORE OR LOAD WITH:

NA

SEGREGATE FROM:

Foodstuffs and Food Containers

Segregation: In store separate by at least 5 metres, on transport separate by at least 3 metres, in both cases horizontally. On vehicles a segregation device may be used: Check the Land Transport Rule Dangerous Goods, Rule 45001 for additional information. Sea transport may require additional segregation. Refer to NZS5433 Sea Segregation for details.

Note: Storage, application and record keeping must be as described in the current version of the New

Zealand Standard for the Management of Agrichemicals NZS8409

7.3 Specific end use(s)

For the relevant identified use(s) listed in Section 1 the advice mentioned in this section 7 is to be observed.

8. Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

67-68-5: Dimethyl sulfoxide

100-51-6: benzyl alcohol

64742-94-5: Solvent naphtha (petroleum), heavy arom.; Kerosine -- unspecified

133855-98-8: epoxiconazole(ISO); (2RS,3SR)-3-(2-chlorophenyl)-2-(4-fluorophenyl)-[(1H-1,2,4-triazol-1-yl)methyl]oxirane

TWA value 0,3 mg/m³ (Recommendation of BASF), Respirable dust

8.2 Exposure controls

Personal protective equipment

Respiratory protection:

Suitable respiratory protection for lower concentrations or short-term effect: Combination filter for gases/vapours of organic, inorganic, acid inorganic, alkaline compounds and toxic particles (e. g. EN 14387 Type ABEK-P3).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other.

Eye protection:

Safety glasses with side-shields (frame goggles) (e.g. EN 166).

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. apron, protecting boots, chemical-protection suit (according to EN 14605 in case of splashes or EN ISO 13982 in case of dust).

General safety and hygiene measures

The statements on personal protective equipment in the instructions for use apply when handling crop-protection agents in final-consumer packing. Wearing of closed work clothing is recommended. Store work clothing separately. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Form:	liquid
Colour:	red-brown
Odour:	moderate odour, aromatic
Odour threshold:	Not determined due to potential health hazard by inhalation.
pH value:	approx. 4 – 6 (water, 1 %(m), approx. 20 °C) (pH Meter)
crystallization temperature:	< -20 °C
Boiling point:	approx. 205 °C (1,013 hPa) Information applies to the solvent.
Flash point:	approx. 102.5 °C (Directive 92/69/EEC, A.9)

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Evaporation rate:	not applicable
Flammability:	not highly flammable
Lower explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Upper explosion limit:	As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.
Ignition temperature:	approx. 282 °C (Directive 92/69/EEC, A.15)
Vapour pressure:	approx. 13 hPa (25 °C) Information applies to the solvent.
Relative density:	approx. 1.04 (20 °C) (calculated)
Relative vapour density (air):	not applicable
Solubility in water:	emulsifiable
Partitioning coefficient n-octanol/water (log Kow):	not applicable
Thermal decomposition:	170 °C, 10 kJ/kg (DSC (OECD 113)) 240 °C, 70 kJ/kg (DSC (OECD 113)) 405 °C, > 100 kJ/kg (DSC (OECD 113))
Viscosity, dynamic:	approx. 9.1 mPa.s (40 °C, 100 1/s) (OECD 114)
Explosion hazard:	not explosive (Directive 92/69/EEC, A.14)
Fire promoting properties:	not fire-propagating (Directive 2004/73/EC, A.21)

9.2 Other information

Other Information:

If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

10.1 Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

10.2 Chemical stability

The product is stable if stored and handled as prescribed/indicated.

10.3 Possibility of hazardous reactions

No hazardous reactions if stored and handled as prescribed/indicated.

10.4 Conditions to avoid

See SDS section 7 - Handling and storage.

10.5 Incompatible materials

Substances to avoid:

Strong acids, strong bases, strong oxidizing agents.

10.6 Hazardous decomposition products

Hazardous decomposition products:

No hazardous decomposition products if stored and handled as prescribed/indicated.

11. Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

Assessment of acute toxicity:

Of moderate toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually

nontoxic by inhalation.

Experimental/calculated data:

LD50 rat (oral): > 500 - < 2,000 mg/kg (OECD Guideline 423)

LC50 rat (by inhalation): 6.18 mg/l 4 h (OECD Guideline 403) An aerosol was tested.

LD50 rat (dermal): > 5,000 mg/kg (OECD Guideline 402)

Irritation

Assessment of irritating effects:

Not irritating to the skin. Eye contact causes irritation.

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Serious eye damage/irritation rabbit: Irritant. (OECD Guideline 405)

Respiratory/Skin sensitization

Assessment of sensitization:

Sensitization after skin contact possible.

Experimental/calculated data:

Mouse Local Lymph Node Assay (LLNA) mouse: Caused skin sensitization in animal studies. (OECD Guideline 429).

Germ cell mutagenicity

Assessment of mutagenicity:

The product has not been tested. The statement has been derived from the properties of the individual components. Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Assessment of carcinogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests.

Information on: Fluxapyroxad

Assessment of carcinogenicity:

Indication of possible carcinogenic effect in animal tests.

Information on: solvent naphtha

Assessment of carcinogenicity:

Long-term exposure to highly irritating concentrations resulted in skin tumors in animals. A carcinogenic effect in humans can be excluded after brief skin contact. The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.

Reproductive toxicity

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole

Assessment of reproduction toxicity:

The results of animal studies suggest a fertility impairing effect.

Developmental toxicity

Assessment of teratogenicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole

Assessment of teratogenicity:

EU-classification: The substance caused malformations/developmental toxicity in laboratory animals.

Indications of possible developmental toxicity/teratogenicity were seen in animal studies.

Repeated dose toxicity and Specific target organ toxicity (repeated exposure)

Assessment of repeated dose toxicity:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole

Assessment of repeated dose toxicity:

Repeated exposure to large quantities may affect certain organs.

Information on: Fluxapyroxad

Assessment of repeated dose toxicity:

Adaptive effects were observed after repeated exposure in animal studies.

Information on: Benzyl alcohol

Assessment of repeated dose toxicity:

The substance may cause damage to the central nervous system after repeated ingestion of high doses.

Information on: 2-Ethylhexyl-S-lactate

Assessment of repeated dose toxicity:

After repeated exposure the prominent effect is local irritation.

Aspiration hazard

No aspiration hazard expected.

The product has not been tested. The statement has been derived from the properties of the individual components.

Other relevant toxicity information

Misuse can be harmful to health.

12. Ecological Information

12.1 Ecotoxicity

Assessment of aquatic toxicity:

Very toxic to aquatic organisms. May cause long-term adverse effects in the aquatic environment.

Toxicity to fish:

LC50 (96 h) 10.6 mg/l, *Oncorhynchus mykiss* (OECD Guideline 203)

Aquatic invertebrates:

EC50 (48 h) 28.9 mg/l, *Daphnia magna* (OECD Guideline 202, part 1, static)

Aquatic plants:

EC50 (72 h) 5.38 mg/l (growth rate), *Pseudokirchneriella subcapitata* (OECD Guideline 201)

EC50 (7 d) 0.265 mg/l (growth rate), *Lemna gibba* (OECD guideline 221, static)

12.2 Persistence and degradability

Assessment biodegradation and elimination (H₂O):

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

Information on: Fluxapyroxad

Assessment biodegradation and elimination (H₂O):

Not readily biodegradable (by OECD criteria).

12.3 Bioaccumulative potential

Assessment bioaccumulation potential:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole

Bioaccumulation potential:

*Bioconcentration factor: 59 - 70, *Oncorhynchus mykiss* (OECD-Guideline 305)*

Does not accumulate in organisms.

Information on: Fluxapyroxad

*Bioaccumulation potential: Bioconcentration factor: 36 - 37 (28 d), *Lepomis macrochirus* (OECD-Guideline 305).*

Does not accumulate in organisms.

12.4 Mobility in soil (and other compartments if available)

Assessment transport between environmental compartments:

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Epoxiconazole

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: Fluxapyroxad

Assessment transport between environmental compartments:

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

12.5 Results of PBT and vPvB assessment

The product does not contain a substance fulfilling the PBT (persistent/bioaccumulative/toxic) criteria or the vPvB (very persistent/very bioaccumulative) criteria.

12.6 Other adverse effects

The product does not contain substances that are listed in Regulation (EC) 1005/2009 on substances that deplete the ozone layer.

12.7 Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

13. Disposal Considerations

Container:

Triple rinse empty container and add rinsate to the spray tank. Recycle through Agrecovery (0800 247 326, www.agrecovery.co.nz).

Contaminated packaging:

Contaminated packaging should be emptied and disposed of in the same manner as the substance/product.

Product:

Dispose of this product only by using according to the label or at an approved landfill or at an approved facility. Do NOT burn product. Do NOT contaminate water with product or used container.

13.1. Waste treatment methods

Waste product/packaging may be sent to a suitable incineration plant, observing local regulations.

14. Transport Information

Commercial transport:

Classified as Dangerous Goods for Land/rail (ADR/RID), sea (IMDG/GGVSee) and air transport (ICAO/IATA):

UN number:	UN 3082
UN proper shipping name:	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (contains EPOXICONAZOLE, FLUXAPYROXAD)
Transport hazard class(es):	9, EHSM
Packing group:	III
Environmental hazards:	Yes
Marine pollutant:	YES
Special precautions for user:	Tunnel code E (EU, Road)
HAZCHEM:	2[Z]

15. Regulatory Information

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

To avoid risks to man and the environment, comply with the instructions for use.

15.2 Chemical Safety Assessment

Advice on product handling can be found in sections 7 and 8 of this safety data sheet.

NZ Regulations

Approved pursuant to the HSNO Act 1996, Code HSR100948.
See www.epa.govt.nz for approval conditions.

Registered pursuant to the ACVM Act 1997, Nos. P8871.
See www.foodsafety.govt.nz/acvm for registration conditions.

16. Other Information

Full text of classifications, hazard symbols and hazard statements, if mentioned in section 2 or 3:

Acute Tox.	Acute toxicity
Eye Dam./Irrit.	Serious eye damage/eye irritation
Skin Sens.	Skin sensitization
Carc.	Carcinogenicity
Repr.	Reproductive toxicity
Aquatic Acute	Hazardous to the aquatic environment - acute
Aquatic Chronic	Hazardous to the aquatic environment - chronic
Skin Corr./Irrit.	Skin corrosion/irritation
Flam. Liq.	Flammable liquids
Asp. Tox.	Aspiration hazard
STOT SE	Specific target organ toxicity — single exposure
H303	May be harmful if swallowed.
H351	Suspected of causing cancer.
H361	Suspected of damaging fertility. Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H402	Harmful to aquatic life.
H332	Harmful if inhaled.
H302	Harmful if swallowed.
H227	Combustible liquid.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H313	May be harmful in contact with skin.
H412	Harmful to aquatic life with long lasting effects.
H226	Flammable liquid and vapour.
H312	Harmful in contact with skin.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. This safety data sheet is neither a Certificate of Analysis (CoA) nor technical data sheet and shall not be mistaken for a specification agreement. Identified uses in this safety data sheet do neither represent an agreement on the corresponding contractual quality of the substance/mixture nor a contractually designated use. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.

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