



BE SURE. BUILD SURE.

Page 1/11

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

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

- **Product identifier**
- **Trade name** MC-Estripox pro - Komponente A
- **Relevant identified uses of the substance or mixture and uses advised against** *No further relevant information available.*
- **Application of the substance / the mixture**  
Epoxy coating  
Epoxy impregnation
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:** MC-Bauchemie Müller GmbH & Co. KG  
Am Kruppwald 1-8  
D-46238 Bottrop  
Tel.: +49(0)2041-101-0  
Fax.: +49(0)2041-101-400  
E-Mail: info@mc-bauchemie.de  
  
MC-Bauchemie AG  
Hagackerstr. 10  
CH-8953 Dietikon  
Tel.: +44-7400510  
Fax : +44-7400533
- **Informing department:** msds@mc-bauchemie.de

### 2 Hazards identification

- **Classification of the substance or mixture**  
Skin Irrit. 2 *H315 Causes skin irritation.*  
Serious eye damage/irritation – Category 2A *H319 Causes serious eye irritation.*  
Skin Sens. 1 *H317 May cause an allergic skin reaction.*  
Aquatic Chronic 2 *H411 Toxic to aquatic life with long lasting effects.*

- **Label elements**
- **GHS label elements** *The product is classified and labelled according to the Globally Harmonised System (GHS).*

- **Hazard pictograms**



GHS07 GHS09

- **Signal word**

Warning

- **Hazard-determining components of labelling:**

epoxide derivates  
Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]  
dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}  
oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]  
dioxirane

(Contd. on page 2)

AE



BE SURE. BUILD SURE.

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

**Trade name MC-Estripox pro - Komponente A**

(Contd. of page 1)

- **Hazard statements**  
Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives  
Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2)  
Causes skin irritation.  
Causes serious eye irritation.  
May cause an allergic skin reaction.  
Toxic to aquatic life with long lasting effects.
- **Precautionary statements**  
Avoid breathing dust/fume/gas/mist/vapours/spray.  
Avoid release to the environment.  
Wear protective gloves / eye protection / face protection.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If skin irritation or rash occurs: Get medical advice/attention.  
If eye irritation persists: Get medical advice/attention.
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

**3 Composition/information on ingredients**

- **Chemical characterisation: Mixtures**
- **Description:** Resin mixture with colouring agents.  
Mixture consisting of the following components.

· **Dangerous components:**

CAS: 1675-54-3	epoxide derivates Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	60-80%
CAS: 100-51-6	Benzyl alcohol Acute Tox. 4, H302; Acute Tox. 4, H332; Eye Irrit. 2, H319	<10%
CAS: 9003-36-5	Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane Aquatic Chronic 2, H411; Skin Irrit. 2, H315; Skin Sens. 1, H317; Acute Tox. 5, H303; Acute Tox. 5, H313	≥2.5-<10%
CAS: 68609-97-2	Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives Skin Irrit. 2, H315; Skin Sens. 1, H317	≥1-<5%
CAS: 933999-84-9	Reaction products of hexane-1,6-diol with 2-(chloromethyl)oxirane (1:2) Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317; Aquatic Chronic 3, H412	≥1-<2.5%

- **Additional information** For the wording of the listed hazard phrases refer to section 16.



BE SURE. BUILD SURE.

Page 3/11

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

Trade name MC-Estripox pro - Komponente A

(Contd. of page 2)

### 4 First aid measures

- **Description of first aid measures**
- **General information** Remove contaminated clothing immediately. Consult a doctor if symptoms occur. Move affected person to fresh air.
- **After inhalation** Supply fresh air; seek medical advice if symptoms occur. If unconscious, place in recovery position and seek medical advice.
- **After skin contact** In case of contact with skin, wash carefully with plenty of soap and water. Consult a doctor in case of skin reactions.
- **After eye contact** Rinse opened eye for several minutes under running water. Call a doctor immediately
- **After swallowing** Rinse mouth with water. Never give anything by mouth to an unconscious person. DO NOT induce vomiting. If symptoms persist, consult a doctor.
- **Information for doctor**
- **Most important symptoms and effects, both acute and delayed** Advice for the doctor: Elementary aid, decontamination, symptomatic treatment.

### 5 Firefighting measures

- **Extinguishing media**
- **Suitable extinguishing agents** CO<sub>2</sub>, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.
- **For safety reasons unsuitable extinguishing agents** Water with a full water jet.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained breathing apparatus.
- **Additional information** Cool endangered containers with water spray jet.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Inform respective authorities in case product reaches water or sewage system. Prevent material from reaching sewage system, holes and cellars.
- **Methods and material for containment and cleaning up:** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **Reference to other sections** See Section 7 for information on safe handling  
See Section 8 for information on personal protection equipment.

(Contd. on page 4)

AE



BE SURE. BUILD SURE.

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

Trade name MC-Estripox pro - Komponente A

(Contd. of page 3)

See Section 13 for information on disposal.

### 7 Handling and storage

· **Handling**

· **Precautions for safe handling** Open and handle containers with care.

Only use in well-ventilated areas (e.g. open construction, outdoor areas), in rooms without air exchange (e.g. closed rooms, underground car parks) ventilation measures are required.

Wear suitable personal protective equipment (see section 8). Avoid contact with eyes, skin and clothing. Change contaminated or damaged gloves and contaminated clothing immediately and wash skin immediately. Mix slowly, partially covering the mixing container. Pour carefully and slowly when repotting. Observe the BGBau technical data sheet and practical guide for handling epoxy resins. Open and handle containers with care.

· **Information about protection**

**against explosions and fires:** Ensure sufficient air exchange and/or extraction in the working areas. Take precautionary measures to avoid electrostatic discharges.

· **Conditions for safe storage, including any incompatibilities**

· **Storage**

· **Requirements to be met by storerooms and containers:**

No special requirements.

· **Information about storage in one common storage facility:**

Store away from foodstuffs.

· **Further information about storage conditions:**

None.

· **Storage class**

10

### 8 Exposure controls/personal protection

· **Additional information about**

**design of technical systems:** No further data; see section 7.

· **Control parameters**

· **Components with critical values that require monitoring at the workplace:**

CAS: 100-51-6 Benzyl alcohol

WEEL (USA) Long-term value: 10 ppm

· **DNELs**

CAS: 100-51-6 Benzyl alcohol

Oral DNEL 4 mg/kg bw/Tag (ArL)  
20 mg/kg bw/Tag (Ark)

Dermal DNEL 8 mg/kg bw/day (ArL)

(Contd. on page 5)



BE SURE. BUILD SURE.

### Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

**Trade name MC-Estripox pro - Komponente A**

(Contd. of page 4)

Inhalative	DNEL	40 mg/kg bw/day (Ark)
		22 mg/m <sup>3</sup> (ArL)
		110 mg/m <sup>3</sup> (Ark)

**CAS: 68609-97-2 Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives**

Oral	DNEL	1 mg/kg bw/Tag (ArL)
Dermal	DNEL	1.7 mg/kg bw/day (ArL)
Inhalative	DNEL	0.98 mg/m <sup>3</sup> (ArL)

**· PNECs**

**CAS: 100-51-6 Benzyl alcohol**

PNEC	0.527 mg/l (Marine water sediment)
	0.1 mg/l (Mew)
	1 mg/l (Fresh water sediment)
PNEC	0.456 mg/kg dwt (Bod)
	5.27 mg/kg dwt (Fresh water sediment)

**CAS: 68609-97-2 Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives**

PNEC	0.00072 mg/l (Mew)
	0.0072 mg/l (Freshwater)
PNEC	80.12 mg/kg dwt (Bod)
	6.677 mg/kg dwt (Sediment)
	66.77 mg/kg dwt (Fresh water sediment)

**· Additional information:** The lists that were valid during the compilation were used as basis.

**· Exposure controls**

**· Personal protective equipment**

**· General protective and hygienic measures**

Keep away from food, drink and animal feed.  
Remove soiled, soaked clothing immediately.  
Wash hands before breaks and at the end of work.  
Avoid contact with eyes and skin.

**· Breathing equipment:**

If workplace limit values cannot be complied with by ventilation measures or if rooms cannot be technically ventilated, respiratory protection must be worn: Use combination filter A1-P2 (brown/white) in rooms that cannot be ventilated. If oxygen deficiency is expected, use self-contained breathing apparatus. Observe wearing time limits according to §9 (3) GefStoffV in conjunction with BGR 190.

**· Protection of hands:**

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

**· Material of gloves**

You can find help with choosing gloves on the website <https://www.bgbau.de/fileadmin/Gisbau/Projekte.pdf>  
For example, we recommend the Sol-vex 37-900 protective gloves from Ansell GmbH. The breakthrough time of the protective gloves can be found under point 8 "Penetration time of the glove material".  
The selection of a suitable glove depends not only on the material, but also on other quality features and varies from manufacturer to

(Contd. on page 6)



BE SURE. BUILD SURE.

### Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

**Trade name MC-Estripox pro - Komponente A**

(Contd. of page 5)

manufacturer. As the product is a preparation of several substances, the resistance of glove materials cannot be calculated in advance and must therefore be checked before use.

Nitrile rubber

Recommended material thickness:  $\geq 0.4$  mm

**· Penetration time of glove material**

The breakthrough times of the Sol-vex 37-900 protective gloves are around 8 hours.

The following applies to all other gloves:

The exact breakthrough time must be obtained from the protective glove manufacturer and adhered to.

Nitrile rubber

Material thickness:  $\geq 0.40$  mm

Penetration time:  $\geq 480$  min

Butyl rubber:

Material thickness:  $\geq 0.5$  mm

Penetration time:  $\geq 480$  min

**· Eye protection:**

Tight-fitting safety goggles.

Safety goggles.

**· Body protection:**

Protective clothing

Suitable protective clothing should be worn when working with epoxy resins. In addition to normal work clothing (long trousers, long-sleeved shirt or T-shirt), disposable overalls, aprons, overshoes, sleeve protectors etc. may be necessary depending on the activity. Uncovered areas of skin should be avoided as far as possible, even in hot weather. If the work involves kneeling, the lower leg area should be protected by protective trousers.

## 9 Physical and chemical properties

**· Information on basic physical and chemical properties**

**· General Information**

**· Appearance:**

Form:

Fluid

Colour:

Light yellow

**· Smell:**

Characteristic

**· pH-value:**

Not determined.

**· Change in condition**

Melting point/freezing point:

Not determined

Initial boiling point and boiling range:  $>200$  °C

**· Flash point:**

101 °C

**· Auto-ignition temperature:**

184 °C

(Contd. on page 7)



BE SURE. BUILD SURE.

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

**Trade name MC-Estripox pro - Komponente A**

(Contd. of page 6)

· <b>Self-inflammability:</b>	<i>Product is not selfigniting.</i>
· <b>Explosive properties:</b>	<i>Product is not explosive. However, formation of explosive air/steam mixtures is possible.</i>
· <b>Critical values for explosion:</b>	
<b>Lower:</b>	1.3 Vol %
<b>Upper:</b>	13 Vol %
· <b>Steam pressure at 20 °C:</b>	0.1 hPa
· <b>Density at 20 °C</b>	1.14 g/cm <sup>3</sup>
· <b>Solubility in / Miscibility with Water:</b>	<i>Not miscible or difficult to mix</i>
· <b>Viscosity:</b>	
<b>dynamic at 20 °C:</b>	820 mPas
<b>kinematic:</b>	<i>Not determined.</i>
· <b>Other information</b>	
	<i>No further relevant information available.</i>

**10 Stability and reactivity**

· <b>Reactivity</b>	<i>No further relevant information available.</i>
· <b>Possibility of hazardous reactions</b>	<i>No dangerous reactions known</i>
· <b>Conditions to avoid</b>	<i>No further relevant information available.</i>
· <b>Incompatible materials:</b>	<i>No further relevant information available.</i>
· <b>Hazardous decomposition products:</b>	<i>Possible in traces.</i>

**11 Toxicological information**

- **Information on toxicological effects**
- **Acute toxicity**

· **LD/LC50 values that are relevant for classification:**

**CAS: 1675-54-3 epoxide derivates**

Dermal	LD50	23000 mg/kg (rabbit)
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**CAS: 100-51-6 Benzyl alcohol**

Oral	LD50	1230 mg/kg (rat)
	NOAEL 2nd year study	200 mg/kg (mouse)

Dermal	LD50	200 mg/kg (rat)
	LD50	2000 mg/kg (rabbit)

(Contd. on page 8)



BE SURE. BUILD SURE.

Page 8/11

## Safety data sheet

according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

Trade name MC-Estripox pro - Komponente A

(Contd. of page 7)

Inhalative	LC50/4 h	>4178 mg/l (rat)
<b>CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane</b>		
Oral	LD50	>2000 mg/kg (rat)
Dermal	LD50	>2000 mg/kg (rabbit)
<b>CAS: 68609-97-2 Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives</b>		
Oral	LD50	17100 mg/kg (rat)

· **Primary irritant effect:**

· **Skin corrosion/irritation** Irritant for skin and mucous membranes.

· **Serious eye damage/irritation** No irritant effect.

· **Respiratory or skin**

**sensitisation**

Sensitization possible by skin contact.

· **Additional toxicological**

**information:**

The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Irritant

## 12 Ecological information

· **Toxicity**

· **Aquatic toxicity:**

**CAS: 1675-54-3 epoxide derivates**

IC50	>42.6 mg/l (Bak)
LC50/96h	2 mg/l (Oncorhynchus mykiss)
EC50/48h	1.8 mg/l (Daphnia magna)
ErC50/72h	11 mg/l (Selenastrum capricornutum)

**CAS: 100-51-6 Benzyl alcohol**

IC50/72h	700 mg/l (algae)
LC50/96h	460 mg/l (Pimephales promelas)
	10 mg/l (Lepomis macrochirus)

**CAS: 9003-36-5 Reaction mass of 2,2'-[methylenebis(4,1-phenyleneoxymethylene)]dioxirane and 2-({2-[4-(oxiran-2-ylmethoxy)benzyl]phenoxy)methyl}oxirane and 2,2'-[methylenebis(2,1-phenyleneoxymethylene)]dioxirane**

LC50/96h	>100 mg/l (Daphnia magna)
EC50/96h	>100 mg/l (Leucidus idus)

**CAS: 68609-97-2 Oxirane, mono[(C12-14-alkyloxy)methyl] derivatives**

EbC50/72h	843 mg/l (Pseudokirchneriella subcapitata)
LC50/96h	>5000 mg/l (Oncorhynchus mykiss)
	1800 mg/l (Lepomis macrochirus)
EC50	>100 mg/l (BEL)
NOEC	500 mg/l (Pseudokirchneriella subcapitata)

(Contd. on page 9)

-AE





BE SURE. BUILD SURE.

### Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

Trade name MC-Estripox pro - Komponente A

(Contd. of page 8)

- **Persistence and degradability** No further relevant information available.
- **Behaviour in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Ecotoxicological effects:**
- **Remark:** Toxic for fish
- **Additional ecological information:**
- **General notes:** Also poisonous for fish and plankton in water bodies.  
Toxic for aquatic organisms  
Do not allow product to reach ground water, water bodies or sewage system.  
Danger to drinking water if even small quantities leak into soil.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

### 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation** Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Empty contaminated packagings thoroughly. They can be recycled after thorough and proper cleaning.

### 14 Transport information

- **UN-Number**
- **ADR, IMDG, IATA** UN3082
- **UN proper shipping name**
- **ADR, IATA** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates)
- **IMDG** ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (epoxide derivates), MARINE POLLUTANT
- **Transport hazard class(es)**
- **ADR**
- **Class** 9 (M6) Miscellaneous dangerous substances and articles.
- **Label** 9
- **IMDG, IATA**
- **Class** 9 Miscellaneous dangerous substances and articles.

(Contd. on page 10)



BE SURE. BUILD SURE.

**Safety data sheet**  
according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

**Trade name MC-Estripox pro - Komponente A**

(Contd. of page 9)

· <b>Label</b>	9
· <b>Packing group</b> · <b>ADR, IMDG, IATA</b>	III
· <b>Environmental hazards:</b> · <b>Marine pollutant:</b>	Yes Symbol (fish and tree)
· <b>Special marking (ADR):</b> · <b>Special marking (IATA):</b>	Symbol (fish and tree) Symbol (fish and tree)
· <b>Special precautions for user</b> · <b>Kemler Number:</b> · <b>EMS Number:</b> · <b>Stowage Category</b>	Warning: Miscellaneous dangerous substances and articles. 90 F-A, S-F A
· <b>Transport in bulk according to Annex II of Marpol and the IBC Code</b>	Not applicable.
· <b>Transport/Additional information:</b>	
· <b>ADR</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>Transport category</b> · <b>Tunnel restriction code</b> · <b>Remarks:</b>	3 (-) 1 kg Gebinde: Begrenzte Mengen
· <b>IMDG</b> · <b>Limited quantities (LQ)</b> · <b>Excepted quantities (EQ)</b>	5L Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· <b>UN "Model Regulation":</b>	UN 3082 ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (EPOXIDE DERIVATES), 9, III

**15 Regulatory information**

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Directive 2012/18/EU**
- **Named dangerous substances - ANNEX I**
- **Seveso category**

None of the ingredients is listed.  
E2 Hazardous to the Aquatic Environment

(Contd. on page 11)



BE SURE. BUILD SURE.

Page 11/11

## Safety data sheet according to Regulation (EC) No 1907/2006, Article 31

Printing date 22.03.2024

Version number 25

Revision: 22.03.2024

**Trade name MC-Estripox pro - Komponente A**

(Contd. of page 10)

- **Qualifying quantity (tonnes) for the application of lower-tier requirements** 200 t
- **Qualifying quantity (tonnes) for the application of upper-tier requirements** 500 t
- **National regulations** 0.67 %
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 16 Other information

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Department issuing data specification sheet:** Environment protection department.
- **Contact:**
- **Abbreviations and acronyms:** RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
ICAO: International Civil Aviation Organisation  
ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)  
IMDG: International Maritime Code for Dangerous Goods  
IATA: International Air Transport Association  
EINECS: European Inventory of Existing Commercial Chemical Substances  
ELINCS: European List of Notified Chemical Substances  
CAS: Chemical Abstracts Service (division of the American Chemical Society)  
DNEL: Derived No-Effect Level (REACH)  
PNEC: Predicted No-Effect Concentration (REACH)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
Acute Tox. 4: Acute toxicity – Category 4  
Acute Tox. 5: Acute toxicity – Category 5  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
Serious eye damage/irritation – Category 2A: Serious eye damage/eye irritation – Category 2A  
Skin Sens. 1: Skin sensitisation – Category 1  
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

- **\* Data compared to the previous version altered.**

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