



# SAFETY DATA SHEET

**MATERION**

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

### 1.1. Product identifier

<b>Name of the substance</b>	Zinc phosphide
<b>Identification number</b>	015-006-00-9 (Index number)
<b>Registration number</b>	-
<b>Document number</b>	2EB
<b>Synonyms</b>	ZINC DIPHOSPHIDE; ZINC PHOSPHIDE
<b>Materion Code</b>	2EB
<b>Issue date</b>	03-October-2013
<b>Revision date</b>	15-January-2018

### 1.3. Details of the supplier of the safety data sheet

#### Supplier

<b>Company name</b>	Materion Advanced Chemicals Inc.
<b>Address</b>	407 N. 13th Street 1316 W. St. Paul Avenue Milwaukee, WI 53233 United States
<b>Division</b>	Milwaukee
<b>Telephone</b>	414.212.0257
<b>e-mail</b>	advancedmaterials@materion.com
<b>Contact person</b>	Laura Hamilton

### 1.4. Emergency telephone number

<b>Supersedes date</b>	14-July-2015
<b>Version number</b>	04

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

<b>Identified uses</b>	Not available.
<b>Uses advised against</b>	None known.

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

The substance has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

#### Classification according to Regulation (EC) No 1272/2008 as amended

##### Physical hazards

Substances and mixtures which, in contact with water, emit flammable gases	Category 1	H260 - In contact with water releases flammable gases which may ignite spontaneously.
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##### Health hazards

Acute toxicity, oral	Category 2	H300 - Fatal if swallowed.
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##### Environmental hazards

Hazardous to the aquatic environment, acute aquatic hazard	Category 1 M-factor = 100.	H400 - Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term aquatic hazard	Category 1 M-factor = 100.	H410 - Very toxic to aquatic life with long lasting effects.

**Hazard summary** DANGER

In contact with water releases flammable gases which may ignite spontaneously. Reacts violently with water. Fatal if swallowed. May be fatal if swallowed. Causes serious eye irritation. Exposure to powder or dusts may be irritating to eyes, nose and throat. Causes damage to organs. May cause drowsiness or dizziness. Dangerous for the environment if discharged into watercourses.

### 2.2. Label elements

## Label according to Regulation (EC) No. 1272/2008 as amended

**Contains:** Zinc phosphide

### Hazard pictograms



**Signal word** Danger

### Hazard statements

H260	In contact with water releases flammable gases which may ignite spontaneously.
H300	Fatal if swallowed.
H312	Harmful in contact with skin.
H319	Causes serious eye irritation.
H320	Causes eye irritation.
H336	May cause drowsiness or dizziness.
H370	Causes damage to organs ( ).
H373	May cause damage to organs (respiratory system) through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

### Precautionary statements

#### Prevention

P260	Do not breathe dust.
P223	Do not allow contact with water.
P223	Keep away from any possible contact with water, because of violent reaction and possible flash fire.
P231 + P232	Handle under inert gas. Protect from moisture.
P261	Avoid breathing dust.
P264	Wash thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing.
P280	Wear protective gloves/eye protection/face protection.

#### Response

P301 + P310	IF SWALLOWED: Immediately call a POISON CENTRE/doctor.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P330	Rinse mouth.
P335 + P334	Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P363	Wash contaminated clothing before reuse.
P370 + P378	In case of fire: Use appropriate media to extinguish.
P391	Collect spillage.

#### Storage

P402 + P404	Store in a dry place. Store in a closed container.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.

#### Disposal

P501	Dispose of contents/container in accordance with local/regional/national/international regulations.
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### Supplemental label information

EUH029 - Contact with water liberates toxic gas.  
EUH032 - Contact with acids liberates very toxic gas.

### 2.3. Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

## General information

Chemical name	%	CAS-No. / EC No.	REACH Registration No.	Index No.	Notes
Zinc phosphide	90 - 100	1314-84-7 215-244-5	-	015-006-00-9	
<b>Classification:</b>	Water-React. 1;H260, Acute Tox. 2;H300, Acute Tox. 4;H312, Eye Irrit. 2;H319, STOT SE 3;H336, STOT SE 1;H370, STOT RE 2;H373, Aquatic Acute 1;H400(M=100), Aquatic Chronic 1;H410(M=100)				T

## List of abbreviations and symbols that may be used above

CLP: Regulation No. 1272/2008.

DSD: Directive 67/548/EEC.

M: M-factor

vPvB: very persistent and very bioaccumulative substance.

PBT: persistent, bioaccumulative and toxic substance.

#: This substance has been assigned Community workplace exposure limit(s).

**Composition comments** The full text for all R- and H-phrases is displayed in section 16.

## SECTION 4: First aid measures

### General information

Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). In case of shortness of breath, give oxygen. Keep victim warm. Wash contaminated clothing before reuse.

### 4.1. Description of first aid measures

#### Inhalation

If dust from the material is inhaled, remove the affected person immediately to fresh air. Remove victim to fresh air and keep at rest in a position comfortable for breathing. Move to fresh air. Call a POISON CENTRE or doctor/physician if you feel unwell. Call a physician if symptoms develop or persist.

#### Skin contact

Brush off loose particles from skin. Immerse in cool water/wrap in wet bandages. Call a POISON CENTRE or doctor/physician if you feel unwell. Get medical attention if irritation develops and persists. For minor skin contact, avoid spreading material on unaffected skin.

#### Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if irritation develops and persists. If eye irritation persists: Get medical advice/attention.

#### Ingestion

IF SWALLOWED: Immediately call a POISON CENTRE or doctor/physician. Call a physician or poison control centre immediately. Call a POISON CENTRE or doctor/physician if you feel unwell. Rinse mouth. Rinse mouth thoroughly. Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn't get into the lungs. Do not use mouth-to-mouth method if victim ingested the substance. Induce artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device.

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

Irritation of eyes and mucous membranes. Narcosis. Decrease in motor functions. Behavioural changes. Liver enlargement. Jaundice. Prolonged exposure may cause chronic effects.

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

Provide general supportive measures and treat symptomatically. Treat symptomatically. In case of shortness of breath, give oxygen. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

## SECTION 5: Firefighting measures

### General fire hazards

Not available.

### 5.1. Extinguishing media

#### Suitable extinguishing media

Powder.

#### Unsuitable extinguishing media

Water. Do not use water jet as an extinguisher, as this will spread the fire. Carbon dioxide (CO<sub>2</sub>).

### 5.2. Special hazards arising from the substance or mixture

Water reactive material. In contact with water releases flammable gases which may ignite spontaneously. Fire may produce irritating, corrosive and/or toxic gases.

### 5.3. Advice for firefighters

#### Special protective equipment for firefighters

Wear suitable protective equipment.

#### Special firefighting procedures

In case of fire and/or explosion do not breathe fumes. Do not get water inside container. Water runoff can cause environmental damage.

## Specific methods

Use standard firefighting procedures and consider the hazards of other involved materials. Move container from fire area if it can be done without risk. In the event of fire and/or explosion do not breathe fumes. Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Local authorities should be advised if significant spillages cannot be contained. Immediately evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Keep out of low areas. Wear appropriate personal protective equipment. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Avoid inhalation of dust from the spilled material. Ventilate closed spaces before entering them.

#### For emergency responders

Keep unnecessary personnel away.

### 6.2. Environmental precautions

Avoid release to the environment. Contact local authorities in case of spillage to drain/aquatic environment. Prevent further leakage or spillage if safe to do so. Do not contaminate water. Avoid discharge into drains, water courses or onto the ground.

### 6.3. Methods and material for containment and cleaning up

Cover with DRY earth, DRY sand or other non-combustible material followed with plastic sheet to minimise spreading or contact with rain. Do not get water on spilled substance or inside containers. If sweeping of a contaminated area is necessary use a dust suppressant agent which does not react with the product. Sweep up or vacuum up spillage and collect in suitable container for disposal. Collect dust using a vacuum cleaner equipped with HEPA filter. Avoid the generation of dusts during clean-up. Prevent product from entering drains. Prevent entry into waterways, sewer, basements or confined areas.

### 6.4. Reference to other sections

Not available.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Keep away from any possible contact with water, because of violent reaction and possible flash fire. Handle under inert gas. Avoid dust formation. Guard against dust accumulation of this material. Provide appropriate exhaust ventilation at places where dust is formed. Do not breathe dust from this material. Do not taste or swallow. Avoid contact with skin and eyes. Avoid prolonged exposure. Avoid contact with clothing. In case of insufficient ventilation, wear suitable respiratory equipment. When using, do not eat, drink or smoke. Wash hands thoroughly after handling. Practice good housekeeping. Wash contaminated clothing before reuse. Avoid release to the environment. Do not empty into drains.

### 7.2. Conditions for safe storage, including any incompatibilities

Store locked up. Keep container tightly closed. Store in a cool, dry place out of direct sunlight. Store in a well-ventilated place. Store in a dry place. Never allow product to get in contact with water during storage. Avoid dust formation. Guard against dust accumulation of this material. Keep out of the reach of children. Store in a building without sprinklers.

### 7.3. Specific end use(s)

Not available.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Occupational exposure limits

##### Germany. DFG MAK List (advisory OELs). Commission for the Investigation of Health Hazards of Chemical Compounds in the Work Area (DFG)

Material	Type	Value	Form
Zinc phosphide (CAS 1314-84-7)	TWA	2 mg/m <sup>3</sup>	Inhalable fraction.
		0,1 mg/m <sup>3</sup>	Respirable fraction.

##### Latvia. OELs. Occupational exposure limit values of chemical substances in work environment

Material	Type	Value
Zinc phosphide (CAS 1314-84-7)	TWA	0,1 mg/m <sup>3</sup>

##### Lithuania. OELs. Limit Values for Chemical Substances, General Requirements

Material	Type	Value
Zinc phosphide (CAS 1314-84-7)	TWA	0,1 mg/m <sup>3</sup>

**Slovakia. OELs. Regulation No. 300/2007 concerning protection of health in work with chemical agents**

Material	Type	Value	Form
Zinc phosphide (CAS 1314-84-7)	TWA	2 mg/m <sup>3</sup>	Inhalable fraction.
		0,1 mg/m <sup>3</sup>	Respirable fraction.

**Switzerland. SUVA Grenzwerte am Arbeitsplatz**

Material	Type	Value	Form
Zinc phosphide (CAS 1314-84-7)	STEL	4 mg/m <sup>3</sup>	Inhalable dust.
		0,4 mg/m <sup>3</sup>	Respirable dust.
	TWA	2 mg/m <sup>3</sup>	Inhalable dust.
		0,1 mg/m <sup>3</sup>	Respirable dust.

**Biological limit values** No biological exposure limits noted for the ingredient(s).

**Recommended monitoring procedures** Follow standard monitoring procedures.

**Derived no effect levels (DNELs)** Not available.

**Predicted no effect concentrations (PNECs)** Not available.

**8.2. Exposure controls****Appropriate engineering controls**

Ventilation should be sufficient to effectively remove and prevent buildup of any dusts or fumes that may be generated during handling or thermal processing. If engineering measures are not sufficient to maintain concentrations of dust particulates below the OEL (occupational exposure limit), suitable respiratory protection must be worn. Provide eyewash station.

**Individual protection measures, such as personal protective equipment**

**General information** Eye wash fountain is recommended.

**Eye/face protection** Wear eye/face protection. Use tight fitting goggles if dust is generated.

**Skin protection**

- **Hand protection** Wear protective gloves. Not normally needed.

- **Other** Wear suitable protective clothing. Wear protective gloves. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

**Respiratory protection** Wear respirator with dust filter. Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

**Thermal hazards** Not available.

**Hygiene measures**

When using, do not eat, drink or smoke. Do not breathe dust. Avoid contact with eyes. Avoid contact with skin. Avoid contact with clothing. Wash hands before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practices.

**Environmental exposure controls**

Contain spills and prevent releases and observe national regulations on emissions. Environmental manager must be informed of all major releases.

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

<b>Appearance</b>	Powder.
<b>Physical state</b>	Solid.
<b>Form</b>	Solid. Powder.
<b>Colour</b>	Not available.
<b>Odour</b>	Not available.
<b>Odour threshold</b>	Not available.
<b>pH</b>	Not available.
<b>Melting point/freezing point</b>	420 °C (788 °F)
<b>Initial boiling point and boiling range</b>	1100 °C (2012 °F)
<b>Flash point</b>	Not available.
<b>Evaporation rate</b>	Not available.
<b>Flammability (solid, gas)</b>	Not available.

**Upper/lower flammability or explosive limits****Flammability limit - lower (%)** Not available.**Flammability limit - upper (%)** Not available.**Vapour pressure** Not available.**Vapour density** Not available.**Relative density** Not available.**Solubility(ies)****Solubility (water)** Not available.**Partition coefficient (n-octanol/water)** Not available.**Auto-ignition temperature** Not available.**Decomposition temperature** Not available.**Viscosity** Not available.**Explosive properties** Not available.**Oxidising properties** Not available.**9.2. Other information****Density** 4,55 g/cm<sup>3</sup>**Molecular formula** P<sub>2</sub>-Zn<sub>3</sub>**Molecular weight** 258,12 g/mol**Specific gravity** 4,55**SECTION 10: Stability and reactivity****10.1. Reactivity** Not available.**10.2. Chemical stability** Material reacts with water.**10.3. Possibility of hazardous reactions** No dangerous reaction known under conditions of normal use.**10.4. Conditions to avoid** Avoid spread of dust. Exposure to water vapour. Contact with water liberates flammable gas.**10.5. Incompatible materials** None known.**10.6. Hazardous decomposition products** Phosphine. Oxides of phosphorus.**SECTION 11: Toxicological information****General information** Occupational exposure to the substance or mixture may cause adverse effects.**Information on likely routes of exposure****Inhalation** Inhalation of dusts may cause respiratory irritation.**Skin contact** Harmful in contact with skin.**Eye contact** Causes serious eye irritation.**Ingestion** Fatal if swallowed.**Symptoms** Narcosis. Liver enlargement. Jaundice. Behavioural changes. Decrease in motor functions.**11.1. Information on toxicological effects****Acute toxicity** Fatal if swallowed. Harmful in contact with skin.

Product	Species	Test Results
Zinc phosphide (CAS 1314-84-7)		
<b>Acute</b>		
<b>Oral</b>		
LD50	Rat	45,7 mg/kg
	Sheep	60 - 70 mg/kg

\* Estimates for product may be based on additional component data not shown.

**Skin corrosion/irritation** Due to lack of data the classification is not possible.**Serious eye damage/eye irritation** Causes serious eye irritation. Dust in the eyes will cause irritation.**Respiratory sensitisation** Due to lack of data the classification is not possible.**Skin sensitisation** Due to lack of data the classification is not possible.

<b>Germ cell mutagenicity</b>	Due to lack of data the classification is not possible.
<b>Carcinogenicity</b>	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
<b>Hungary. 26/2000 Eüm Ordinance on protection against and preventing risk relating to exposure to carcinogens at work (as amended)</b>	
	Not listed.
<b>Reproductive toxicity</b>	Due to lack of data the classification is not possible.
<b>Specific target organ toxicity - single exposure</b>	May cause irritation to the respiratory system. Narcotic effects. Causes damage to organs ().
<b>Specific target organ toxicity - repeated exposure</b>	May cause damage to organs (respiratory system) through prolonged or repeated exposure.
<b>Aspiration hazard</b>	Due to lack of data the classification is not possible.
<b>Mixture versus substance information</b>	Not available.
<b>Other information</b>	Not available.

## SECTION 12: Ecological information

<b>12.1. Toxicity</b>	Very toxic to aquatic life with long lasting effects. Accumulation in aquatic organisms is expected.
<b>12.2. Persistence and degradability</b>	No data is available on the degradability of this product.
<b>12.3. Bioaccumulative potential</b>	Not available.
<b>Partition coefficient n-octanol/water (log Kow)</b>	Not available.
<b>Bioconcentration factor (BCF)</b>	Not available.
<b>12.4. Mobility in soil</b>	Not available.
<b>12.5. Results of PBT and vPvB assessment</b>	Not a PBT or vPvB substance or mixture.
<b>12.6. Other adverse effects</b>	Not available.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

<b>Residual waste</b>	Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal instructions).
<b>Contaminated packaging</b>	Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied.
<b>EU waste code</b>	The Waste code should be assigned in discussion between the user, the producer and the waste disposal company.
<b>Disposal methods/information</b>	Consult authorities before disposal. This material and its container must be disposed of as hazardous waste. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

## SECTION 14: Transport information

### ADR

<b>14.1. UN number</b>	UN1714
<b>14.2. UN proper shipping name</b>	Zinc phosphide
<b>14.3. Transport hazard class(es)</b>	
<b>Class</b>	4.3
<b>Subsidiary risk</b>	6.1(PGI, II)
<b>Label(s)</b>	4.3, 6.1
<b>Hazard No. (ADR)</b>	Not available.
<b>Tunnel restriction code</b>	Not available.
<b>14.4. Packing group</b>	I
<b>14.5. Environmental hazards</b>	No.
<b>14.6. Special precautions for user</b>	Not available.

**RID**

**14.1. UN number** UN1714  
**14.2. UN proper shipping name** ZINC PHOSPHIDE  
**14.3. Transport hazard class(es)**  
    **Class** 4.3  
    **Subsidiary risk** 6.1(PGI, II)  
    **Label(s)** 4.3+6.1  
**14.4. Packing group** I  
**14.5. Environmental hazards** No.  
**14.6. Special precautions for user** Not available.

**ADN**

**14.1. UN number** UN1714  
**14.2. UN proper shipping name** Zinc phosphide  
**14.3. Transport hazard class(es)**  
    **Class** 4.3  
    **Subsidiary risk** 6.1(PGI, II)  
    **Label(s)** 4.3, 6.1  
**14.4. Packing group** I  
**14.5. Environmental hazards** No.  
**14.6. Special precautions for user** Not available.

**IATA**

**14.1. UN number** UN1714  
**14.2. UN proper shipping name** Zinc phosphide  
**14.3. Transport hazard class(es)**  
    **Class** 4.3  
    **Subsidiary risk** 6.1(PGI, II)  
**14.4. Packing group** I  
**14.5. Environmental hazards** No.  
**ERG Code** 4PW  
**14.6. Special precautions for user** Not available.  
**Other information**  
    **Passenger and cargo aircraft** Forbidden  
    **Cargo aircraft only** Allowed with restrictions.

**IMDG**

**14.1. UN number** UN1714  
**14.2. UN proper shipping name** ZINC PHOSPHIDE  
**14.3. Transport hazard class(es)**  
    **Class** 4.3  
    **Subsidiary risk** 6.1(PGI, II)  
**14.4. Packing group** I  
**14.5. Environmental hazards**  
    **Marine pollutant** No.  
**EmS** F-G, S-N  
**14.6. Special precautions for user** Not available.





## SECTION 15: Regulatory information

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

#### EU regulations

**Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I and II, as amended**

Not listed.

**Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 1 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 2 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex I, Part 3 as amended**

Not listed.

**Regulation (EU) No. 649/2012 concerning the export and import of dangerous chemicals, Annex V as amended**

Not listed.

**Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry, as amended**

Zinc phosphide (CAS 1314-84-7)

**Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA**

Not listed.

#### Authorisations

**Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorization, as amended**

Not listed.

#### Restrictions on use

**Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended**

Zinc phosphide (CAS 1314-84-7)

**Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work, as amended.**

Not listed.

#### Other EU regulations

**Directive 2012/18/EU on major accident hazards involving dangerous substances, as amended**

Zinc phosphide (CAS 1314-84-7)

#### Other regulations

The product is classified and labelled in accordance with EC directives or respective national laws. This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

#### National regulations

Young people under 18 years old are not allowed to work with this product according to EU Directive 94/33/EC on the protection of young people at work.

#### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out.

## SECTION 16: Other information

#### List of abbreviations

Not available.

#### References

ACGIH  
EPA: AQUIRE database  
NLM: Hazardous Substances Data Base  
US. IARC Monographs on Occupational Exposures to Chemical Agents

#### Training information

Not available.

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