



Product information

Summary

FORMULATION & ACTIVE INGREDIENT: ACTELLIC 50EC is an emulsifiable concentrate formulation containing 500 g/l (49.02% w/w) pirimiphos-methyl.

MAPP NUMBER: 12726

PACK SIZE: 1 litre

TARGETS: A broad spectrum insecticide for use on stored grain.

CROPS: Wheat, barley, oats.

PRACTICAL NOTES:

USE: Complete or surface admixture

MAXIMUM INDIVIDUAL DOSE: 8 ml product per tonne grain

MAXIMUM TOTAL DOSE OR MAXIMUM NUMBER OF

APPLICATIONS: One per batch of grain

OTHER SPECIFIC RESTRICTIONS: The maximum concentration must not exceed 8 mls product/0.75 litres water



This product label is compliant with the CPA Voluntary Initiative (VI) guidance.

NAN0124/2006

Compatibility

COMPATIBILITY

No compatibilities available for this product.

Product Label

DIRECTIONS FOR USE

IMPORTANT: This information is approved as part of the Product Label. All instructions within this section must be carefully read in order to obtain safe and successful use of this product.

PESTS CONTROLLED

ACTELLIC 50EC controls the following pests of stored grain: Saw-toothed Grain Beetle (*Oryzaephilus surinamensis*), Grain Weevil (*Sitophilus granarius*), Common Flour Mite (*Acarus siro*), Warehouse Moth (*Ephestia elutella*), Flour or Mill Moth (*Ephestia kuhniella*), Flour Beetles (*Tribolium spp.*), Rust-red Grain Beetle (*Cryptolestes ferrugineus*) and Cosmopolitan Food Mite (*Glycyphagus destructor*).

COMPLETE ADMIXTURE

(Wheat, barley, oats)

Preparation: For best results the store should be thoroughly cleaned before the grain is added.

Timing: Grain should be treated as soon as possible during storage. Ideally ACTELLIC 50EC should be applied to the grain as it is loaded into store. However, moist and/or warm grain should be dried and/or cooled before treatment. Vigorous drying and cooling operations can reduce the effectiveness of treatment by causing degradation of the insecticide. Whenever such operations are necessary for grain going into longer term storage they should be conducted prior to treatment, ideally before the grain is loaded into its final storage place.

Moisture content: For best results when using ACTELLIC 50EC moisture contents should be maintained at or below 15% for cereals. If the moisture content is higher the effectiveness of treatment and the period of protection can be reduced.

Curative treatment: Always inspect grain following application to ensure that control is complete.

SURFACE ADMIXTURE

(Wheat, barley, oats)

Preparation: Surface admixture will be effective only if the store is thoroughly cleaned and disinfested and if the grain coming into store is free of insect or mite pests.

Treatment: Treat the surface layer of the grain bulk to a depth of at least 30–100 cm. This can be done by first part filling the store and levelling the bulk of untreated grain. Treat the remaining grain as it enters the store, distribute evenly over the bulk to create a treated layer.

Storage conditions: Care should be taken to ensure that the moisture content of the grain is kept low (at or below 15% for cereals), and that the bulk is kept cool. Any subsequent movement of the surface layer will reduce the effectiveness of treatment.

Surface admixture of ACTELLIC 50EC is compatible with 'Integrated Pest Control' (IPC).

Further details are available from specialist advisers or your local Syngenta adviser.

Important note: Surface admixture is recommended for use only where the above preparation, treatment and storage conditions can be achieved. The use of surface admixture under any other circumstances is at user's own risk.

Complete or Surface Admixture

Ensure good spray coverage of the grain or seed. Adjust the conveyor to produce a shallow, even flow of grain or seed at the point of application. Poor or uneven coverage may reduce the level of control.

Establish the grain or seed carrying rate of the conveyor and ensure accurate calibration of application equipment. See above for additional information.

Wheat, barley and oats: including barley for malting, milling wheat and seed

For a conveyor rate of 22.5–45 tonnes per hour: Apply 8 ml product in 0.75 litres of water per tonne through a medium/coarse type nozzle.

For a conveyor rate of below 22.5 tonnes per hour: Apply 8 ml product in 1.5 litres of water per tonne. This can be achieved using an orifice plate (e.g. 'Teejet' orifice plate 4916 series).

Wheat, barley and oats:

Maximum individual dose: 8 ml product/tonne grain.

Maximum number of treatments: One per batch of grain.

Other specific restrictions: The maximum concentration must not exceed 8 ml product/0.75 litres water.

Important note

Where grain has been treated by admixture, it must be labelled as follows: **“THIS GRAIN HAS BEEN CHEMICALLY TREATED”**.

MIXING INSTRUCTIONS

Shake well before use. Half fill the spray tank with water and begin agitation. Add the required quantity of ACTELLIC 50EC to the spray tank and complete filling. Maintain agitation during application and apply immediately.

APPLICATION

Apply using a suitable liquid applicator. DO NOT APPLY surface admixture or complete admixture using hand held equipment. Follow the manufacturer's instructions and take care to minimise the risk of operator exposure. Consult your supplier or Syngenta UK Ltd for a list of application equipment suppliers.

AFTER USE

Empty application equipment and clean thoroughly after use.

Part used containers must be securely sealed and stored away from food, drink and animal feeding stuffs. Do not re-use the container for any purpose.

Notes:

1. For best results when using ACTELLIC 50EC moisture contents should be maintained at or below 15% for cereals. If the moisture content is higher the effectiveness of treatment and the period of protection can be reduced.
2. Insecticide treatments tend to work more slowly, and be less effective in cold conditions.
3. Moist grain coming into store should be dried and cooled before treatment with ACTELLIC 50EC. Drying and cooling operations made after treatment can reduce the effectiveness of treatment.
4. Predatory mites (*Cheyletus*) are sometimes found in grain feeding on infestations of grain mites. They are not a pest species and do not harm grain, but their presence can cause rejection by buyers. Predatory mites can survive treatments of organophosphorus insecticides (e.g. ACTELLIC 50EC) and are sometimes found after curative treatments to control heavy mite infestations. They will not remain for long after their food source has been removed, but grain should be inspected carefully before selling.
5. Handling grain treated with this product does not require the use of face and eye protection. However, dust from the grain itself has been known to cause irritation of eyes, throat, chest and skin and so when working with grain the use of eye protection and a dust mask is advisable.

This product is to be used only in accordance with the recommendations and instructions given on the labels provided with this pack. Use in any other circumstances is entirely at user's risk.

PROTECT FROM FROST

SAFETY PRECAUTIONS

(a) Operator protection

Pirimiphos-methyl is an anticholinesterase organophosphorus compound. DO NOT USE if under medical advice NOT to work with such compounds.

Engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

Application as a grain admixture must only be made using automated application equipment.

Other engineering control of operator exposure must be used where reasonably practicable in addition to the following personal protective equipment:

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES AND FACE PROTECTION (FACESHIELD) when handling the concentrate.

WEAR SUITABLE PROTECTIVE CLOTHING (COVERALLS), SUITABLE PROTECTIVE GLOVES when handling the treated grain and contaminated grain sowing equipment.

However engineering controls may replace personal protective equipment if a COSHH assessment shows they provide an equal or higher standard of protection.

WASH SPLASHES OF CONCENTRATE from skin or eyes immediately.

ENSURE ADEQUATE VENTILATION IN CONFINED SPACES.

DO NOT BREATHE SPRAY.

WASH HANDS AND EXPOSED SKIN before meals and after work.

TAKE OFF immediately all contaminated clothing.

COVER WATER STORAGE TANKS before application.

VENTILATE CONFINED SPACES THOROUGHLY.

IF SWALLOWED, do not induce vomiting: seek medical advice immediately and show this container or label.

DO NOT HANDLE grain unnecessarily.

(b) Environmental protection

DO NOT CONTAMINATE SURFACE WATERS OR DITCHES with chemical or used container.



Wildlife must be excluded from buildings during treatment.

(c) Storage and disposal

RINSE CONTAINER THOROUGHLY by using an integrated pressure rinsing device or manually rinsing three times. Add washings to sprayer at time of filling and dispose of safely.

KEEP IN ORIGINAL CONTAINER, tightly closed, in a safe place.

DO NOT RE-USE CONTAINER for any purpose.

 <p>HARMFUL</p>	ACTELLIC 50EC ACTELLIC 50EC is an emulsifiable concentrate formulation containing 500 g/litre (49.02% w/w) pirimiphos-methyl. Pirimiphos-methyl is an anticholinesterase organophosphate. Handle with care.
 <p>DANGEROUS FOR THE ENVIRONMENT</p>	FLAMMABLE. HARMFUL BY INHALATION AND IF SWALLOWED. IRRITATING TO EYES AND RESPIRATORY SYSTEM. HARMFUL. MAY CAUSE LUNG DAMAGE IF SWALLOWED. RISK OF SERIOUS DAMAGE TO EYES. MAY CAUSE SENSITISATION BY SKIN CONTACT. VERY TOXIC TO AQUATIC ORGANISMS, MAY CAUSE LONG-TERM ADVERSE EFFECTS IN THE AQUATIC ENVIRONMENT. Keep out of reach of children. When using do not eat, drink or smoke. Keep away from food, drink and animal feeding stuffs. If swallowed, do not induce vomiting, seek medical advice immediately and show this container or label. This material and its container must be disposed of safely. Use appropriate containment to avoid environmental contamination. To avoid risks to man and the environment, comply with the instructions for use.

THE (COSHH) CONTROL OF SUBSTANCES HAZARDOUS TO HEALTH REGULATIONS MAY APPLY TO THE USE OF THIS PRODUCT AT WORK

IMPORTANT INFORMATION

USE ONLY AS AN INSECTICIDE IN FOOD STORAGE PRACTICE

For use on wheat, barley and oats

Admixture: Stored wheat, barley and oats

Maximum individual dose: 8 ml product/tonne grain

Maximum number of treatments: One per batch of grain

Other specific restrictions: The maximum concentration must not exceed 8 ml product/0.75 litres water**READ THE LABEL BEFORE USE. USING THIS PRODUCT IN A MANNER THAT IS INCONSISTENT WITH THE LABEL MAY BE AN OFFENCE. FOLLOW THE CODE OF PRACTICE FOR USING PLANT PROTECTION PRODUCTS**

Syngenta UK Limited, CPC4, Capital Park, Fulbourn, Cambridge CB21 5XE

Tel: Cambridge (01223) 883400

In case of toxic or transport emergency ring 01484 538444 any timeSafety Data

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY OR UNDERTAKING**Identification of the substance or preparation**Tradename **ACTELLIC 50EC**Design Code **A5832C****Company /undertaking identification**

Syngenta UK Ltd

CPC4, Capital Park, Fulbourn, Cambridge CB21 5XE

Phone (01223) 883400

Fax (01223) 882195

Website www.syngenta.co.uk**Emergency Phone 0044 (0)1484 538444 (24h)****2. COMPOSITION/INFORMATION ON INGREDIENTS
HAZARDOUS COMPONENTS****pirimiphos-methyl**

CAS-No.: 29232-93-7

Ec-No.: 249-528-5

Concentration (% w/w): 50

Hazard symbols: Xn,N

Risk Phrases (R): 22, 50/53

solvent naphtha (petroleum), light aromatic

CAS-No.: 64742-95-6

Ec-No.: 265-199-0

Concentration (% w/w): 40–50

Hazard symbols: Xn,N

Risk Phrases (R): 10, 20, 36/37/38, 51/53, 65

benzenesulphonic acid, dodecyl-, calcium salt

CAS-No.: 26264-06-2
Ec-No.: 247-557-8
Concentration (% w/w): 5–10
Hazard symbols: Xn
Risk Phrases (R): 10, 37/38, 41, 67

For the full text of the R phrases mentioned in this section, see section 16.

3. HAZARDS IDENTIFICATION

Harmful by inhalation and if swallowed. Irritating to eyes and respiratory system. Harmful: may cause lung damage if swallowed. May cause sensitisation by skin contact. Risk of serious damage to eyes. Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. FIRST AID MEASURES

General advice: Have the product container, label or Material Safety Data Sheet with you when calling the Syngenta emergency number, a Poison Control Centre or physician, or going for treatment.

Inhalation: Remove to fresh air. Keep patient warm and at rest. If breathing is irregular or stopped, administer artificial respiration. Call a physician or Poison Control Centre immediately.

Skin contact: Take off contaminated clothing and shoes immediately. Wash off immediately with soap and plenty of water. If skin irritation persists, call a physician. Wash contaminated clothing before re-use.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses. Immediate medical attention is required.

Ingestion: If swallowed, seek medical advice immediately and show this container or label. Do not induce vomiting.

Symptoms: The symptoms are of cholinesterase inhibition.

Medical advice

Call Syngenta at the emergency number shown in this document, a poison control centre or doctor immediately for treatment advice. Consider taking venous blood for determination of blood cholinesterase activity (use heparin tube). Administer atropine sulphate, either by intramuscular or intravenously, dependant on severity of poisoning. Specific antidotes are oximes (e.g. Pralidoxime) or Toxogonin.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media:

Extinguishing media – small fires: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Extinguishing media – large fires: Use alcohol-resistant foam.

Extinguishing media which must not be used for safety reasons: Do not use a solid water stream as it may scatter and spread fire.

Specific hazards during fire fighting: As the product contains combustible organic components, fire will produce dense black smoke containing hazardous products of combustion (see section 10). Exposure to decomposition products may be a hazard to health. Flash back possible over considerable distance.

Special protective equipment for fire fighters: In the event of fire, wear self-contained breathing apparatus.

Further information: Do not allow run-off from fire fighting to enter drains or water courses. Cool closed containers exposed to fire with water spray.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions: Refer to protective measures listed in sections 7 and 8. Keep people away from and upwind of spill/leak. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. Remove all sources of ignition. Pay attention to flashback.

Environmental precautions: Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

Methods for cleaning up: Contain and collect spillage with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local/national regulations (see section 13).

Additional advice: If the product contaminates rivers and lakes or drains inform respective authorities.

7. HANDLING AND STORAGE

HANDLING

Advice on safe handling: Avoid contact with skin and eyes. When using, do not eat, drink or smoke. Take precautionary measures against static discharges. Use only in an area containing flame proof equipment. For personal protection see section 8.

STORAGE

Requirements for storage areas and containers: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Keep away from food, drink and animal feed. Keep away from heat and sources of ignition. Keep away from combustible material. Keep in an area equipped with sprinklers. No smoking.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

pirimiphos-methyl

Exposure limit(s): 3 mg/m³

Value type: 8 h TWA

Source: SYNGENTA

solvent naphtha (petroleum), light arom.

Exposure limit(s): 100 mg/m³

Value type: 8 h TWA

Source: SUPPLIER

ENGINEERING MEASURES

Containment and/or segregation is the most reliable technical protection measure if exposure cannot be eliminated. The extent of these protection measures depends on the actual risks in use. If airborne mists or vapours are generated, use local exhaust ventilation controls. Assess exposure and use any additional measures to keep airborne levels below any relevant exposure limit. Where necessary, seek additional occupational hygiene advice.

PERSONAL PROTECTIVE EQUIPMENT

When using this product refer to the label for details. In all other cases, use the following Personal Protective Equipment:

Protective measures: The use of technical measures should always have priority over the use of personal protective equipment. When selecting personal protective equipment, seek appropriate professional advice. Personal protective equipment should be certified to appropriate standards.

Respiratory protection: A particulate filter respirator may be necessary until effective technical measures are installed. Protection provided by air-purifying respirators is limited. Use a self-contained breathing apparatus in cases of emergency spills, when exposure levels are unknown, or under any circumstances where air-purifying respirators may not provide adequate protection.

Hand protection: Chemical resistant gloves are not usually required. Select gloves based on the physical job requirements.

Eye protection: If eye contact is possible, use tight-fitting chemical safety goggles.

Skin and body protection: No special protective equipment required. Select skin and body protection based on the physical job requirements.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Light brown clear liquid

Oxidising Properties: Not oxidising

Flash Point: 48°C

Explosive Properties: Not explosive

Density: 1.02 g/ml at 20°C

Surface Tension: 35.3 mN/m at 25°C

Water Solubility: Soluble

Solubility in other solvents: Miscible in water

10. STABILITY AND REACTIVITY

Hazardous decomposition products: Combustion or thermal decomposition will evolve toxic and irritant vapours.

Hazardous reactions: None known. Hazardous polymerisation does not occur. Stable under normal conditions.

11. TOXICOLOGICAL INFORMATION

Acute Oral Toxicity: LD50: female rat, 1,732 mg/kg, male rat, 1,522 mg/kg. The toxicological data has been taken from products of similar composition.

Acute Dermal Toxicity: LD50: rat, >2,000 mg/kg. The toxicological data has been taken from products of similar composition.

Skin Irritation: Rabbit: Slightly Irritating. The toxicological data has been taken from products of similar composition.

Eye Irritation: Rabbit: Moderately Irritating. The toxicological data has been taken from products of similar composition.

Sensitisation: Guinea pig: Not a skin sensitiser in animal tests. The toxicological data has been taken from products of similar composition.

Long-Term Toxicity: Did not show carcinogenic, teratogenic or mutagenic effects in animal experiments.

12. ECOLOGICAL INFORMATION

ELIMINATION INFORMATION (PERSISTENCE AND DEGRADABILITY)

Bioaccumulation: Pirimiphos-methyl has high potential for bioaccumulation.

Stability in water: Pirimiphos-methyl is not persistent in water.

Stability in soil: Pirimiphos-methyl is not persistent in soil.

Mobility: Pirimiphos-methyl has low mobility in soil.

ECOTOXICITY EFFECTS

Toxicity to Fish: LC50 Rainbow trout, 1.3 mg/l, 96 h. Based on test results obtained with similar product.

Toxicity to Aquatic Invertebrates: EC50 *Daphnia magna* (water flea), 0.5 µg/l, 48 h. Based on test results obtained with similar product.

Toxicity to Algae: ErC50 *Pseudokirchneriella subcapitata* (green algae), 7.4 mg/l. Based on test results obtained with similar product.

13. DISPOSAL CONSIDERATIONS

Product: Do not contaminate ponds, waterways or ditches with chemical or used container. Do not dispose of waste into sewer. Where possible recycling is preferred to disposal or incineration. If recycling is not practicable, dispose of in compliance with local regulations.

Contaminated packaging: Empty remaining contents. Triple rinse containers. Empty containers should be taken for local recycling or waste disposal. Do not re-use empty containers.

14. TRANSPORT INFORMATION

Road/Rail/Maritime Transport (ADR/RID/IMDG/IATA)

Class: 3

UN number: 1993

Packaging group: III

Proper Shipping Name: FLAMMABLE LIQUID, N.O.S., (SUBSTITUTED BENZENOID HYDROCARBONS AND PIRIMIPHOS-METHYL)

Marine pollutant: Yes

15. REGULATORY INFORMATION

If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Hazard symbols/Classifications:

Xn HARMFUL

N DANGEROUS FOR THE ENVIRONMENT

Risk phrases (R)

10 Flammable.

20/22 Harmful by inhalation and if swallowed.

36/37 Irritating to eyes and respiratory system.

41 Risk of serious damage to eyes.

43 May cause sensitisation by skin contact.

50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65 Harmful: may cause lung damage if swallowed.

Safety phrases (S)

2 Keep out of the reach of children.

13 Keep away from food, drink and animal feeding stuffs.

20/21 When using do not eat, drink or smoke.

35 This material and its container must be disposed of in a safe way.

57 Use appropriate containment to avoid environmental contamination.

62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

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

16. OTHER INFORMATION

Use plant protection products safely. Always read the label and product information before use.

Product approval number: MAPP 12726.

Based on edition 21/07/06, version 9.

Text of R phrases mentioned in Section 2:

R10 Flammable

R20 Harmful by inhalation

R22 Harmful if swallowed

R36/37/38 Irritating to eyes, respiratory system and skin

R37/38 Irritating to respiratory system and skin

R41 Risk of serious damage to eyes

R50/53 Very toxic to aquatic organisms, may cause long-term effects in the aquatic environment

R51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R65 Harmful: May cause lung damage if swallowed

R67 Vapours may cause drowsiness and dizziness

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.

Environmental Info

ENVIRONMENTAL INFORMATION

A 500 g/litre EC formulation containing pirimiphos-methyl an anticholinesterase organophosphorus compound for use on stored grain.

Maximum application rate: 8 mls product per tonne grain

Maximum no. of applications: One per batch of stored wheat, barley and oat grain as an admixture.

WILDLIFE, MAMMALS AND BIRDS

WILDLIFE

ACTELLIC 50EC is not classified as 'Harmful to game, wild birds and animals'.

MAMMALS AND BIRDS

No risk management is necessary to protect wild mammals and birds. ACTELLIC 50EC is of moderate toxicity to mammals and high toxicity to birds if directly consumed. ACTELLIC 50EC is used as an insecticide to treat stored grain, where it is advised to exclude wildlife.

Consequently the risk to these species is low. The risk to birds and mammals consuming any spilled treated grain is low.

Wildlife must be excluded from buildings during treatment.

BEEES

No risk management is necessary as no exposure to honey bees is anticipated.

NON-TARGET INSECTS AND OTHER ARTHROPODS

No risk management is necessary as no exposure to non-target insects and other arthropods is anticipated.

AQUATIC LIFE

ACTELLIC 50EC is classified as 'very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment'.

ACTELLIC 50EC is extremely toxic to aquatic invertebrates and highly toxic to algae and fish. Care must be taken to ensure that surface waters or ditches are not contaminated with the product or used container.

No risk management is necessary. ACTELLIC 50EC is used as an insecticide treatment as an admixture to grain. In practice, the risk to aquatic life is low.

Not categorised under the LERAP scheme.

SOIL AND GROUNDWATER, EARTHWORMS AND SOIL MICRO-ORGANISMS

SOIL AND GROUNDWATER

No direct exposure to soil is anticipated if ACTELLIC 50EC is used according to label instructions.

EARTHWORMS

ACTELLIC 50EC is of moderate toxicity to earthworms, in practice the risk to earthworms is low if used as directed. No risk management necessary.

SOIL MICRO-ORGANISMS

ACTELLIC 50EC is unlikely to have any long-term effect on soil microbial activity, therefore the risk is considered to be low. No risk management is necessary.

NON-TARGET PLANTS

ACTELLIC 50EC is used as an insecticide to treat stored grain, therefore it is unlikely to have any effects on non-target plants if used as directed.

Use plant protection products safely. Always read the label and product information before use.

Care must be taken to minimise the risk of surface water contamination from farmyard and field sources.

For further information about the environmental profile of this product contact:

Syngenta UK Ltd

CPC4, Capital Park, Fulbourn, Cambridge CB21 5XE

Telephone: 0800 1696058
Fax: 01223 882195
e-mail: customer.services@syngenta.com

This Environmental Information Sheet was prepared in accordance with CPA Guidance Notes Version 4.

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