

SSG4713B

SAFETY DATA SHEET

1. Identification

Product identifier: SSG4713B

Other means of identification

Synonyms: PASTE CATALYST B (BLACK)

Recommended use and restriction on use

Recommended use: Automotive application. Silicone Elastomer (B)

Restrictions on use: None known.

Manufacturer/Importer/Distributor Information : Momentive Performance Materials LLC
260 Hudson River Road
Waterford NY 12188

Contact person : commercial.services@momentive.com

Telephone : General information
+1-800-295-2392

**Emergency telephone number
Supplier :** CHEMTREC
1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Health Hazards

| | |
|-----------------------------------|-------------|
| Serious Eye Damage/Eye Irritation | Category 1 |
| Skin sensitizer | Category 1 |
| Toxic to reproduction | Category 1B |

Unknown toxicity - Health

| | |
|--|-----|
| Acute toxicity, oral | 0 % |
| Acute toxicity, dermal | 0 % |
| Acute toxicity, inhalation, vapor | 0 % |
| Acute toxicity, inhalation, dust or mist | 0 % |

Label Elements

Hazard Symbol:

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Signal Word: Danger

Hazard Statement: H318; Causes serious eye damage.
H317; May cause an allergic skin reaction.
H360; May damage fertility or the unborn child.

Precautionary Statements

Prevention: Wear protective gloves/protective clothing/eye protection/face protection. Avoid breathing dust/fume/gas/mist/vapors/spray. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.

Response: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse.

Storage: Store locked up.

Disposal: Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

Other hazards which do not result in GHS classification: None.

Substance(s) formed under the conditions of use: Reacts with water forming ethanol.

3. Composition/information on ingredients

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Mixtures

| Chemical Identity | CAS number | Content in percent (%)* | Notes |
|--|------------|-------------------------|---|
| gamma-Aminopropyltriethoxysilane | 919-30-2 | 10 - <20% | # This substance has workplace exposure limit(s). |
| (1) Carbon Black | 1333-86-4 | 5 - <10% | # This substance has workplace exposure limit(s). |
| Tris(3(trimethoxysilyl)propyl)isocyanurate | 26115-70-8 | 5 - <10% | # This substance has workplace exposure limit(s). |
| DIBUTYL TINOXIDE (48% as Tin) | 818-08-6 | 0.3 - <1% | # This substance has workplace exposure limit(s). |
| Di-(2-ethylhexyl)phthalate | 117-81-7 | 0.3 - <1% | # This substance has workplace exposure limit(s). |

* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

(1) The respirable particle(s) listed above are inextricably bound within the polymer matrix, and therefore does not present an inhalation hazard during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

4. First-aid measures

- General information:** No action shall be taken involving any personal risk or without suitable training.
- Ingestion:** If swallowed, rinse mouth with water (only if the person is conscious). Do NOT induce vomiting. Consult a physician for specific advice.
- Inhalation:** Move into fresh air and keep at rest. Get medical attention if symptoms occur.
- Skin Contact:** Wash area with soap and water.
- Eye contact:** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Most important symptoms/effects, acute and delayed

Symptoms: No data available.

Hazards: No data available.

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Indication of immediate medical attention and special treatment needed

Treatment: Treatment is symptomatic and supportive.

5. Fire-fighting measures

General Fire Hazards: Use standard firefighting procedures and consider the hazards of other involved materials.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing media: All standard extinguishing agents are suitable.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical: In case of fire, carbon monoxide and carbon dioxide may be formed. Exposure to fire can generate toxic fumes. Acute overexposure to the products of combustion may result in irritation of the respiratory tract.

Special protective equipment and precautions for firefighters

Special fire fighting procedures: To prevent and minimize fire or explosion risk from static accumulation and discharge, effectively bond and/or ground product transfer system. Cool fire-endangered containers with water.

Special protective equipment for fire-fighters: Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full protective clothing.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Keep container closed. Avoid inhalation of vapors and spray mists. Avoid contact with skin and eyes. Use only in well-ventilated areas. Keep out of reach of children. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up: Wipe, scrape or soak up in an inert material and put in a container for disposal. Wash walking surfaces with detergent and water to reduce slipping hazard. Wear proper protective equipment as specified in the protective equipment section.

Notification Procedures: In case of spills, beware of slippery floors and surfaces. See Section 8 of the SDS for Personal Protective Equipment.

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7. Handling and storage

Precautions for safe handling: Sensitivity to static discharge is expected; material has a flash point below 200 F. Provide adequate general and local exhaust ventilation.

Conditions for safe storage, including any incompatibilities: No data available.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Type | Exposure Limit Values | Source |
|--|---------|-----------------------|--|
| (1) Carbon Black - Inhalable fraction. | TWA | 3 mg/m3 | US. ACGIH Threshold Limit Values (03 2015) |
| (1) Carbon Black | REL | 0.1 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | REL | 3.5 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | PEL | 3.5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 3.5 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| (1) Carbon Black - Inhalable fraction. | TWA | 3 mg/m3 | US. ACGIH Threshold Limit Values (03 2015) |
| (1) Carbon Black | REL | 3.5 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| (1) Carbon Black - as PAHs | REL | 0.1 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2016) |
| (1) Carbon Black | PEL | 3.5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 3.5 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 3.5 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) |
| (1) Carbon Black - Particulate. | AN ESL | 3.5 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) |
| | ST ESL | 35 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) |
| (1) Carbon Black | TWA PEL | 3.5 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015) |
| DIBUTYL TINOXIDE (48% as Tin) - as Sn | STEL | 0.2 mg/m3 | US. ACGIH Threshold Limit Values (03 2015) |
| | TWA | 0.1 mg/m3 | US. ACGIH Threshold Limit Values (03 2015) |
| | REL | 0.1 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | PEL | 0.1 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | TWA | 0.1 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 0.1 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) |
| DIBUTYL TINOXIDE (48% as Tin) - Particulate. | AN ESL | 0.1 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) |

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| | | | |
|---------------------------------------|---------|-----------|--|
| | ST ESL | 1 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) |
| DIBUTYL TINOXIDE (48% as Tin) - as Sn | TWA PEL | 0.1 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015) |
| | STEL | 0.2 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015) |
| Di-(2-ethylhexyl)phthalate | TWA | 5 mg/m3 | US. ACGIH Threshold Limit Values (03 2015) |
| | REL | 5 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | STEL | 10 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | PEL | 5 mg/m3 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) (02 2006) |
| | STEL | 10 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 5 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 5 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) |
| | STEL | 10 mg/m3 | US. Tennessee. OELs. Occupational Exposure Limits, Table Z1A (06 2008) |
| | AN ESL | 5 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) |
| | ST ESL | 50 µg/m3 | US. Texas. Effects Screening Levels (Texas Commission on Environmental Quality) (11 2016) |
| | TWA PEL | 5 mg/m3 | US. California Code of Regulations, Title 8, Section 5155. Airborne Contaminants (01 2015) |

This product contains one or more substances with an occupational exposure limit. However, the respirable particle(s) of this/these substance(s) are inextricably bound within the polymer matrix. Therefore, we do not expect an exposure to this/these substance(s) during normal use of this product. Tooling or machining of the cured product (sanding, cutting, milling) may release hazardous, respirable substances.

Appropriate Engineering Controls

Eye wash facilities and emergency shower must be available when handling this product. Use only in well-ventilated areas.

Individual protection measures, such as personal protective equipment

General information:

Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for non-routine or emergency situations.

Eye/face protection:

Safety glasses with side shields

Skin Protection

Hand Protection:

Chemical resistant gloves

Other:

Wear suitable protective clothing.

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Respiratory Protection: If exposure limits are exceeded or respiratory irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA regulations (see 29CFR 1910.134).

Use only in well-ventilated areas. In case of inadequate ventilation use suitable respirator.

Hygiene measures: Observe good industrial hygiene practices. Good personal hygiene is necessary. Wash hands and contaminated areas with water and soap before leaving the work site. When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance

Physical state: solid
Form: solid
Color: Black

Odor: amine like

Odor threshold: No data available.

pH: Not applicable

Melting point/freezing point: No data available.

Initial boiling point and boiling range: Not applicable

Flash Point: > 63 °C

Evaporation rate: No data available.

Flammability (solid, gas): No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available.

Flammability limit - lower (%): No data available.

Explosive limit - upper (%): No data available.

Explosive limit - lower (%): No data available.

Heat of combustion: No data available.

Vapor pressure: Not applicable

Vapor density: No data available.

Density: ca. 1.020 g/cm³

Relative density: ca. 1.02

Solubility(ies)

Solubility in water: No data available.

Solubility (other): No data available.

Partition coefficient (n-octanol/water) Log Pow: No data available.

Auto-ignition temperature:

No data available.

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Decomposition temperature: No data available.
SADT: No data available.
Viscosity, dynamic: No data available.
Viscosity, kinematic: No data available.
VOC: 162 g/l ;

10. Stability and reactivity

Reactivity: No dangerous reaction if used as recommended.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous reactions: Hazardous polymerisation does not occur.

Conditions to avoid: Keep away from moisture.

Incompatible Materials: Avoid contact with acids and oxidizing substances. Reacts with water forming ethanol.

Hazardous Decomposition Products: Carbon dioxide Silicon dioxide. Tin fumes. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

11. Toxicological information

Information on likely routes of exposure

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral Product: ATEmix: 2,008.35 mg/kg

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Specified substance(s):

Tris(3(trimethoxysilyl)propyl)isocyanurate LD 50 (Rat, female): 1,460 mg/kg

DIBUTYL TINOXIDE LD 50 (Rat): 487 mg/kg
(48% as Tin)

Dermal

Product: Not classified for acute toxicity based on available data.

Specified substance(s):

Tris(3(trimethoxysilyl)propyl)isocyanurate LD 50 (Rat, No data available.): 16,000 mg/kg

Inhalation

Product: Not classified for acute toxicity based on available data.

Repeated dose toxicity

Product: No data available.

Specified substance(s):

gamma-Aminopropyltriethoxysilane NOAEL (Rat, Oral, 90 d): 200 mg/kg

Skin Corrosion/Irritation

Product: OECD-Guideline 404 (Acute Dermal Irritation/Corrosion) (Rabbit, 4 h): No skin irritation

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified **US. National Toxicology Program (NTP) Report on Carcinogens:**
No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):
No carcinogenic components identified

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Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

gamma-Aminopropyltriethoxysilane
Ames-Test: negative
Chinese Hamster Ovary (CHO): negative

In vivo

Product: No data available.

Specified substance(s):

gamma-Aminopropyltriethoxysilane
Micronucleus test (mouse): negative

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure

Product: No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: No data available.

Other effects:

Product releases amine vapors during cure. Contains dibutyltin compound(s) - May impair fertility. May cause harm to unborn child.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

gamma-Aminopropyltriethoxysilane
LC50 (Brachydanio rerio, 96 h): > 934 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

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gamma-
Aminopropyltriethoxysilan
e EC50 (Daphnia magna, 48 h): 331 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

gamma-
Aminopropyltriethoxysilan
e EC50 (Desmodesmus subspicatus (green algae), 72 h): > 1,000 mg/l
NOEC (Desmodesmus subspicatus (green algae), 72 h): 1.3 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

gamma-
Aminopropyltriethoxysilan
e 67 % (28 d) Not readily degradable. hydrolyses

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)

Product: No data available.

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

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| | |
|--|--------------------|
| gamma-Aminopropyltriethoxysilane | No data available. |
| (1) Carbon Black | No data available. |
| Tris(3(trimethoxysilyl)propyl)isocyanurate | No data available. |
| DIBUTYL TINOXIDE (48% as Tin) | No data available. |
| Di-(2-ethylhexyl)phthalate | No data available. |

Other adverse effects: No data available.

13. Disposal considerations

General information: The generation of waste should be avoided or minimized wherever possible. Do not discharge into drains, water courses or onto the ground. See Section 8 for information on appropriate personal protective equipment.

Disposal instructions: Disposal should be made in accordance with federal, state and local regulations.

Contaminated Packaging: Dispose of as unused product.

14. Transport information

DOT
Not regulated.

IMDG
Not regulated.

IATA
Not regulated.

Special precautions for user: This product is not regarded as dangerous goods according to the national and international regulations on the transport of dangerous goods.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

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CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Serious eye damage or eye irritation
 Respiratory or Skin Sensitization
 Reproductive toxicity

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

None present or none present in regulated quantities.

SARA 311/312 Hazardous Chemical

| <u>Chemical Identity</u> | <u>Threshold Planning Quantity</u> |
|--|------------------------------------|
| gamma-Aminopropyltriethoxysilane | 10000 lbs |
| (1) Carbon Black | 10000 lbs |
| Tris(3(trimethoxysilyl)propyl)isocyanurate | 10000 lbs |
| DIBUTYL TINOXIDE (48% as Tin) | 10000 lbs |
| Di-(2-ethylhexyl)phthalate | 10000 lbs |

SARA 313 (TRI Reporting)

| <u>Chemical Identity</u> | <u>Reporting threshold for other users</u> | <u>Reporting threshold for manufacturing and processing</u> |
|----------------------------|--|---|
| Di-(2-ethylhexyl)phthalate | | |

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65



WARNING

Reproductive Harm - www.P65Warnings.ca.gov

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

SILOXANES AND SILICONES, DI-ME
 gamma-Aminopropyltriethoxysilane
 (1) Carbon Black

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Tris(3(trimethoxysilyl)propyl)isocyanurate
TETRA-N-PROPYL-SILICATE
DIBUTYL TINOXIDE (48% as Tin)
Di-(2-ethylhexyl)phthalate

US. Massachusetts RTK - Substance List

Chemical Identity

(1) Carbon Black
Di-(2-ethylhexyl)phthalate

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

(1) Carbon Black
Di-(2-ethylhexyl)phthalate

US. Rhode Island RTK

Chemical Identity

(1) Carbon Black

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Inventory Status:

| | | |
|--|--|----------------------------|
| Australia AICS: | On or in compliance with the inventory | Remarks: None. |
| Japan (ENCS) List: | On or in compliance with the inventory | Remarks: None. |
| Korea Existing Chemicals Inv. (KECI): | On or in compliance with the inventory | Remarks: None. |
| Canada DSL Inventory List: | On or in compliance with the inventory | Remarks: None. |
| Canada NDSL Inventory: | Not in compliance with the inventory. | Remarks: None. |
| Philippines PICCS: | On or in compliance with the inventory | Remarks: None. |
| US TSCA Inventory: | On or in compliance with the inventory | Remarks: On TSCA Inventory |
| EINECS, ELINCS or NLP: | On or in compliance with the inventory | Remarks: None. |
| China Inv. Existing Chemical Substances: | On or in compliance with the inventory | Remarks: None. |
| New Zealand Inventory of Chemicals: | On or in compliance with the inventory | Remarks: None. |
| Taiwan Chemical Substance Inventory: | On or in compliance with the inventory | Remarks: None. |

16. Other information, including date of preparation or last revision

HMIS Hazard ID

| | | |
|----------------------------|---|---|
| Health | * | 3 |
| Flammability | 2 | |
| Physical Hazards | 1 | |
| PERSONAL PROTECTION | | |

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 08/24/2018
Revision Date: No data available.
Version #: 4.0
Further Information: No data available.

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Disclaimer:

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

Further Information

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 safehandling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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