

# SAFETY DATA SHEET

according to 29 CFR 1910.1200 and GHS

## TurboCide® Advanced Fogging Products PY-75™ with IGR

Revision 1  
Revision date 2023-01-12

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

#### 1.1. Product identifier

Product name	TurboCide® Advanced Fogging Products PY-75™ with IGR
Product code	1474510
Registration No.	47000-147.

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

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

Company	Neogen Corporation
Address	620 Leshar Place Lansing MI 48912 USA
Web	www.neogen.com
Telephone	517-372-9200/800-234-5333
Email	SDS@neogen.com

#### 1.4. Emergency telephone number

24 hours:  
Medical: 1-800-498-5743 (U.S. and Canada) or 1-651-523-0318 (international)  
Spill/CHEMTREC: 1-800-424-9300 (U.S. and Canada) or 1-703-527-3887 (international)

#### Further information

Manufactured By:  
Chem-Tech Ltd.  
1006 Business Highway 5  
Pleasantville, IA 50225 U.S.A.

Chem-Tech Ltd. is a wholly-owned subsidiary of Neogen Corporation.

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

**2.1.2. Classification - GHS** Liquefied gas: H280; Asp. Tox. 1: H304; Muta. 1B: H340; Carc. 1B: H350; Aquatic Chronic 2: H411;

#### 2.2. Label elements

##### Hazard pictograms



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## 2.2. Label elements

<b>Signal Word</b>	Danger
<b>Hazard Statement</b>	Liquified gas: H280 - Contains gas under pressure; may explode if heated. Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways. Muta. 1B: H340 - May cause genetic defects . Carc. 1B: H350 - May cause cancer . Aquatic Chronic 2: H411 - Toxic to aquatic life with long lasting effects.
<b>Precautionary Statement: Prevention</b>	P201 - Obtain special instructions before use. P202 - Do not handle until all safety precautions have been read and understood. P273 - Avoid release to the environment. P280 - Wear protective gloves/protective clothing/eye protection/face protection.
<b>Precautionary Statement: Response</b>	P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER/doctor/ . P308+P313 - IF exposed or concerned: Get medical advice/attention. P331 - Do NOT induce vomiting. P391 - Collect spillage.
<b>Precautionary Statement: Storage</b>	P405 - Store locked up. P410+P403 - Protect from sunlight. Store in a well-ventilated place.
<b>Precautionary Statement: Disposal</b>	P501 - Dispose of contents/container to P501 - Dispose of contents/container to an approved waste disposal facility in accordance with local and national regulations., Follow label instructions

## 2.3. Other hazards

<b>Other hazards</b>	Contains material(s) which may be harmful if absorbed through the skin.
<b>Further information</b>	Read the entire label and follow all use directions, restrictions, and precautions.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### EC 1272/2008

Chemical Name	Index No.	CAS No.	EC No.	REACH Registration Number	Conc. (%w/w)	Classification
Carbon dioxide		124-38-9	204-696-9		70 - 80%	Compressed gas: H280;
Pyriproxyfen		95737-68-1	429-800-1		0.2%	Eye Irrit. 2B: H320; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Low boiling point modified naphtha - naphtha (petroleum), heavy alkylate	649-275-00-4	64741-65-7	265-067-2		10 - 20%	Carc. 1B: H350; Muta. 1B: H340; Asp. Tox. 1: H304;
Piperonyl butoxide		51-03-6	200-076-7		5%	Aquatic Acute 1: H400; Aquatic Chronic 1: H410;
Pyrethrins (Pyrethrum)		8003-34-7	232-319-8		0.7%	Acute Tox. 4: H302+H312+H332; Aquatic Acute 1: H400; Aquatic Chronic 1: H410;

#### Description

	Concentrations listed are not product specifications.
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#### Further information

	Full text of Hazard Statements listed in this Section is provided in Section 16.
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## SECTION 4: First aid measures

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## 4.1. Description of first aid measures

Inhalation	Move the exposed person to fresh air. If breathing is difficult give oxygen. If breathing stops, provide artificial respiration. Seek medical attention if irritation or symptoms persist.
Eye contact	Rinse immediately with plenty of water. Contact lenses should be removed. Seek medical attention if irritation or symptoms persist.
Skin contact	Remove contaminated clothing. Wash with soap and water. Thaw frosted parts with lukewarm water. Do not rub affected area. Seek medical attention if irritation or symptoms persist.
Ingestion	Do not induce vomiting unless told to do so by the poison control center or doctor. Rinse mouth thoroughly. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

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

Inhalation	May cause dizziness and headache. May cause irritation to respiratory system.
Eye contact	May cause irritation to eyes.
Skin contact	May cause irritation to skin.
Ingestion	Ingestion may cause nausea and vomiting.

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

	Remove the affected person from the source of contamination immediately. Transfer to hospital if there are burns or symptoms of poisoning. Seek medical attention if irritation or symptoms persist. If medical advice is needed, have product container or label at hand.
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## Further information

	Refer to product label and/or package insert for additional information. Follow label instructions.
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## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

	Use extinguishing media appropriate to the surrounding fire conditions.
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### 5.2. Special hazards arising from the substance or mixture

	Contains gas under pressure; may explode if heated.
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### 5.3. Advice for firefighters

	Move containers away from fire if it can be done without risk. In case of fire and/or explosion do not breathe fumes. Wear self-contained breathing apparatus and chemical-protective clothing.
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## SECTION 6: Accidental release measures

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

	Use as appropriate: Protective equipment, Protective clothing. Ensure adequate ventilation of the working area. Avoid prolonged or repeated exposure. In the event of a liquid spill, wear chemical protective equipment suitable for extremely low temperatures.
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### 6.2. Environmental precautions

	Prevent further spillage if safe. Clean spillage area thoroughly with plenty of water. Do not flush into surface water. Do not let product contaminate subsoil.
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### 6.3. Methods and material for containment and cleaning up

	Absorb spillage to prevent material damage. Clean with detergents. Avoid solvents. Do not contaminate water by cleaning of equipment or disposal of wastes.
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### 6.4. Reference to other sections

	See Section(s) 2, 8, and 13 for further information.
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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

Adopt best Manual Handling considerations when handling, carrying and dispensing. Avoid contact with eyes. Keep away from sources of ignition - No smoking. Do not eat, drink or smoke in areas where this product is used or stored. Ensure adequate ventilation of the working area. Do not contaminate water by cleaning of equipment or disposal of wastes. Read the entire label and follow all use directions, restrictions, and precautions. Use as appropriate: Protective clothing.

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

Store in correctly labelled containers. Keep container tightly closed. Do not contaminate water, food, or feed by storage or disposal. Follow label instructions. Keep at temperature not exceeding 54°C. Keep away from sources of ignition - No smoking.

### 7.3. Specific end use(s)

See Section(s) 1.2 for further information.

### Further information

Refer to product label and/or package insert for additional information. Follow label instructions.


## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure Limit Values

Carbon dioxide	<p>ACGIH TLV TWA: 5000 ppm</p> <p>Notations: -</p> <p>OSHA PEL 8hr TWA mg m3: 9000</p> <p>NIOSH REL 10hr TWA ppm:</p> <p>NIOSH REL 15 min ST ppm:</p>	<p>ACGIH TLV STEL: 30000 ppm</p> <p>OSHA PEL 8hr TWA ppm: 5000</p> <p>Skin Designation: -</p> <p>NIOSH REL 10hr TWA mg m3:</p> <p>NIOSH REL 15 min ST mg m3:</p>
Pyrethrins (Pyrethrum)	<p>ACGIH TLV TWA: 5 mg/m<sup>3</sup></p> <p>Notations: A4</p> <p>OSHA PEL 8hr TWA mg m3: 5</p> <p>NIOSH REL 10hr TWA ppm:</p> <p>NIOSH REL 15 min ST ppm:</p>	<p>ACGIH TLV STEL: -</p> <p>OSHA PEL 8hr TWA ppm: -</p> <p>Skin Designation: -</p> <p>NIOSH REL 10hr TWA mg m3:</p> <p>NIOSH REL 15 min ST mg m3:</p>

### 8.2. Exposure controls

	
Appropriate engineering controls	Ensure adequate ventilation of the working area.
Individual protection measures	Refer to product label for additional PPE requirements and recommendations. Follow label instructions.
Eye / face protection	Use as appropriate: Suitable eye protection.
Skin protection - Hand protection	Wear: Chemical resistant gloves.
Skin protection - Other	Wear: Long-sleeved shirt and long pants, Shoes and socks.
Respiratory protection	Wear: NIOSH-approved respirator with: dust/mist filter with MSHA/NIOSH approval number prefix

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## 8.2. Exposure controls

Occupational exposure controls	TC-21C or any N, R, P, or HE prefilter.
	Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Protect clothing from contact with the product. Provide chemical shower. Provide eye wash station.

## Further information

	Refer to product label for additional PPE requirements and recommendations. Follow label instructions.
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## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

State	Gas
Color	Yellow/Amber
Odor	Characteristic
Boiling point	-78.464 °C
Vapor pressure	5720 Pa
Vapor density	1.53 g/cm <sup>3</sup>
Relative density	0.914
Partition coefficient	0.83 log P
Melting point	-109.3 °C
Freezing Point	No data available
pH	No data available
Autoignition temperature	No data available
Explosive properties	No data available
Oxidizing properties	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability limits	No data available
Solubility	Soluble in water

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

	Stable under normal conditions.
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### 10.2. Chemical stability

	Stable under normal conditions.
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### 10.3. Possibility of hazardous reactions

	Under the specified conditions, hazardous reactions that lead to excessive temperatures or pressure are not expected.
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### 10.4. Conditions to avoid

	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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### 10.5. Incompatible materials

	Combustible materials.
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### 10.6. Hazardous decomposition products

	Carbon oxides. Hydrocarbons.
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## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity	Based on available data, the classification criteria are not met. However, this product does contain substance(s) that are classified as hazardous. For more information, see Section 3.
Skin corrosion/irritation	May cause irritation to skin.
Serious eye damage/irritation	May cause irritation to eyes.
Respiratory or skin sensitization	May cause allergic reactions in susceptible people.
Germ cell mutagenicity	Mutagen category 1.
Carcinogenicity	Carcinogen category 1.  No components at >0.01% are listed in the American Conference of Governmental Industrial Hygienists (ACGIH) Guide to Occupational Exposure Values. Listed by the International Agency for Research on Cancer (IARC) as a group 2B: Possibly carcinogenic to humans. Listed in the National Toxicology Program (NTP) Report on Carcinogens as reasonably anticipated to be a human carcinogen. Not listed in the OSHA standard 1910.1003 Carcinogens.
Reproductive toxicity	No teratogenic effects reported.
STOT-single exposure	Contact with skin or other tissues may cause frostbite.
STOT-repeated exposure	No Significant Hazard.
Aspiration hazard	Potential for aspiration if swallowed.
Repeated or prolonged exposure	Avoid prolonged or repeated exposure. Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects. Delayed appearance of the complaints and development of hypersensitivity (difficult breathing, coughing, asthma) are possible.

### 11.1.2. Mixtures

	See Section(s) 3 for further information.
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### 11.1.3. Hazard Information

	See Section(s) 2 and 3 for further information.
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### 11.1.4. Toxicological information

Pyrethrins	Oral Rat LD50: 87 mg/kg	Inhalation Rat LC50/4 h: 0.6 mg/l
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	No data available.
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### 11.1.5. Hazard Class

	See Section(s) 2 and 14 for further information.
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### 11.1.6. Classification Criteria

	Based on the Globally Harmonized System (GHS) considerations for the classification of mixtures. See Section 15 for regulatory citations.
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### 11.1.7. Information on likely routes of exposure

	Eye contact. Skin contact. Inhalation. Ingestion.
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### 11.1.8. Symptoms related to the physical, chemical and toxicological characteristics

	See Section(s) 4.2 for further information.
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### 11.1.9. Delayed and immediate effects as well as chronic effects from short and long-term exposure

	See Section(s) 4.2 for further information.
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## 11.1.10. Interactive effects

No data available.

## 11.1.11. Absence of specific data

<1% of this mixture consists of ingredients of unknown acute toxicity.

## 11.1.12. Mixture versus substance information

See Section(s) 3 for further information.

## 11.1.13. Other information

No data available.

## SECTION 12: Ecological information

### 12.1. Toxicity

Pyrethrins	Daphnia EC50/48h: 0.216000 mg/l Rainbow trout LC50/96h: 0.244 mg/l	Algae EC50/72h: 4.9 mg/l
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### 12.2. Persistence and degradability

No data is available on this product.

### 12.3. Bioaccumulative potential

No data is available on this product.

### Partition coefficient

TurboCide® Advanced Fogging 0.83 log P  
Products PY-75™ with IGR

### 12.4. Mobility in soil

No data is available on this product.

### 12.5. Results of PBT and vPvB assessment

No data is available on this product.

### 12.6. Other adverse effects

This product is toxic to fish, birds, and aquatic invertebrates.

## SECTION 13: Disposal considerations

### Disposal methods

Do not burn or incinerate. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not flush into surface water. Dispose of in compliance with all label directions.

### Disposal of packaging

Cylinders must be returned to the point of purchase for credit. All cylinders, valves, and caps remain the property of the manufacturer. Federal regulations prohibit the refilling of cylinders without written consent of the manufacturer.

### Further information

Refer to product label and/or package insert for additional information. Follow label instructions.

## SECTION 14: Transport information

### Hazard pictograms

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## Hazard pictograms



## 14.1. UN number

UN1968

## 14.2. UN proper shipping name

INSECTICIDE GAS, N.O.S. (Carbon dioxide, Pyrethrins)

## 14.3. Transport hazard class(es)

DOT	2
Subsidiary risk	-
IMDG	2.2
Subsidiary risk	-
IATA	2.2
Subsidiary risk	-

## 14.4. Packing group

Packing group -

## 14.5. Environmental hazards

Environmental hazards	No
Marine pollutant	No

## DOT

Hazard ID	20
Tunnel Category	(C/E)

## IMDG

EmS Code	F-C S-V
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## IATA

Packing Instruction (Cargo)	200
Maximum quantity	150 kg
Packing Instruction (Passenger)	200
Maximum quantity	75 kg

## SECTION 15: Regulatory information

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

Regulations	Hazard Communication Standard: 29 Code of Federal Regulations 1910.1200: Occupational Safety and Health Standards: Z: Toxic and Hazardous Substances: Hazard Communication.
Chemical Inventories/Right-to-Know Lists:	Toxic Substances Control Act (TSCA): All ingredients listed or exempt. Massachusetts Right-to-Know Hazardous Substance List: Piperonyl butoxide, CAS No. 51-03-6. New Jersey Worker and Community Right to Know Act: Carbon dioxide, CAS No. 124-38-9, Piperonyl butoxide, CAS No. 51-03-6. Pennsylvania Right to Know Law: Carbon dioxide, CAS No. 124-38-9. Rhode Island Right-to-Know General Law: Carbon dioxide, CAS No. 124-38-9.



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

California Prop 65: This material contains no reportable components.

### Inventories

Ingredient	TSCA	MA	SARA313	CALPROP65	CWA307	CAA112	CWA311	SARA302	SARA304
Carbon dioxide	Y	N	N	N	N	N	N	N	N
Low boiling point modified naphtha - naphtha (petroleum), heavy alkylate (Naphtha (petroleum), heavy alkylate)	Y	N	N	N	N	N	N	N	N
Pyrethrins	N	N	N	N	N	N	Y	N	N

### Further information

<b>Additional Regulating Authority:</b>	This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.
<b>Signal Word</b>	CAUTION.
<b>Label Precautions</b>	Keep out of reach of children. Hazards to humans and domestic animals. Harmful if swallowed. Harmful if absorbed through the skin. Avoid contact with eyes, skin, or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

## SECTION 16: Other information

### Other information

<b>Revision</b>	This document differs from the previous version in the following areas:. 1 - Description. 1 - Product Use. 1 - Registration No. 2 - Other hazards. 2 - Precautionary Statement: Disposal. 4 - Skin contact. 5 - 5.2. Special hazards arising from the substance or mixture. 5 - 5.3. Advice for firefighters. 8 - Respiratory protection. 8 - Skin protection - Hand protection. 8 - Individual protection measures. 8 - Skin protection - Other. 9 - 9.1. Information on basic physical and chemical properties (Relative density). 9 - 9.1. Information on basic physical and chemical properties (Evaporation rate). 9 - 9.1. Information on basic physical and chemical properties (Freezing Point). 11 - Germ cell mutagenicity. 11 - Carcinogenicity. 13 - Disposal methods. 13 - Disposal of packaging. 15 - Chemical Inventories/Right-to-Know Lists:. 15 - Label Precautions.
<b>Acronyms</b>	ADR/RID: European Agreements Concerning the International Carriage of Dangerous Goods by Rail (RID) and by Road (ADR).

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## Other information

	<p>CAS No.: Chemical Abstracts Service.          FIFRA: U.S. Federal Insecticide, Fungicide, and Rodenticide Act.          GHS: Globally Harmonized System.          HCS 2012: Hazard Communication Standard (2012 revision).          IATA: International Air Transport Association.          ICAO: International Civil Aviation Organization.          IMDG: International Maritime Dangerous Goods.          LD: Lethal dose.          OEL: Occupational exposure limit.          OSHA: U.S. Occupational Safety and Health Administration.          PEL: Permissible Exposure Limit.          REACH: Registration, Evaluation, Authorization, and Restriction of Chemicals.          SVHC: Substance of very high concern.          US DOT: United States Department of Transportation.          VOC: Volatile Organic Compound.          WEL: Workplace Exposure Limit.</p>
<p><b>Text of Hazard Statements in Section 3</b></p>	<p>Compressed gas: H280 - Contains gas under pressure; may explode if heated.          Eye Irrit. 2B: H320 - Causes eye irritation.          Aquatic Acute 1: H400 - Very toxic to aquatic life.          Aquatic Chronic 1: H410 - Very toxic to aquatic life with long lasting effects.          Asp. Tox. 1: H304 - May be fatal if swallowed and enters airways.          Muta. 1B: H340 - May cause genetic defects .          Carc. 1B: H350 - May cause cancer .          Acute Tox. 4: H302+H312+H332 - Harmful if swallowed, in contact with skin or if inhaled</p>

## Further information

	<p>DISCLAIMER: The information and recommendations set forth herein ("Information") are presented in good faith and believed to be correct as of the date issued. No representation is made regarding the completeness or accuracy of the Information. Further, because of the many factors that affect the use of this product, the Information is supplied upon the condition that the person(s) receiving it will make their own determination regarding its suitability for their own unique purpose(s), prior to use.</p> <p>Except as expressly stated herein, NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, COURSE OF PERFORMANCE, USAGE OF TRADE, OR RESULTS TO BE OBTAINED BY USE OF THIS PRODUCT are made with respect to this product or use of this product. The product covered is furnished "as is" and only subject to the warranties herein provided, no liability is assumed resulting from the use of this product.</p>
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