

Summary of product characteristics for a biocidal product

Product name: Fungitrol C450

Product type(s): PT06 - Preservatives for products during storage (Preservatives)

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Authorisation number: 578-27

R4BP 3 asset reference number: DK-0012813-0001

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Administrative information

1.1. Trade names of the product

Fungitrol C450
Fungitrol P100
Fungitrol C450
Fungitrol C450
Fungitrol C450
Fungitrol C450
Fungitrol C450
Fungitrol C450
Fungitrol C450
Fungitrol C450

1.2. Authorisation holder

Name and address of the authorisation holder	Name	TROY CHEMICAL COMPANY BV
	Address	Poortweg 4C 2612PA Delft Netherlands
Authorisation number	578-27 1-1	
R4BP 3 asset reference number	DK-0012813-0001	
Date of the authorisation	07/07/2017	
Expiry date of the authorisation	07/07/2027	

1.3. Manufacturer(s) of the biocidal products

Name of the manufacturer	Troy Chemical Company BV
Address of the manufacturer	Poortweg 4C 2612PA Delft Netherlands
Location of manufacturing sites	Westelijke Randweg 9 4791 RT Klundert Netherlands
	Industriepark 23 56593 Horhausen Germany
	Am Alten Galgen 14 56410 Montabaur Germany
	Geschwister-Scholl-Straße 127 39218 Schönebeck/Elbe Germany
	Mecklenburger Str. 229 23568 Lübeck Germany
	Halchtersche Str. 33 38304 Wolfenbüttel Germany
	Am Nordturm 5 46562 Voerde Germany

1.4. Manufacturer(s) of the active substance(s)

Active substance	39 - 3-iodo-2-propynylbutylcarbamate (IPBC)
Name of the manufacturer	Troy Corporation
Address of the manufacturer	8 Vreeland Road 07932 Florham Park, New Jersey United States
Location of manufacturing sites	One Avenue L 07105 Newark, New Jersey United States

Active substance	39 - 3-iodo-2-propynylbutylcarbamate (IPBC)
Name of the manufacturer	Troy Chemical Company BV
Address of the manufacturer	Poortweg 4C 2612PA Delft Netherlands
Location of manufacturing sites	Industriepark 23 56593 Horhausen Germany

2. Product composition and formulation

2.1. Qualitative and quantitative information on the composition of the biocidal product

Common name	IUPAC name	Function	CAS number	EC number	Content (%)
3-iodo-2-propynylbutylcarbamate (IPBC)		Active Substance	55406-53-6	259-627-5	100

2.2. Type of formulation

AP - Any other powder

3. Hazard and precautionary statements

Hazard statements

Harmful if swallowed.
May cause an allergic skin reaction.
Causes serious eye damage.
Toxic if inhaled.
Causes damage to organs larynx through prolonged or repeated exposure .
Very toxic to aquatic life with long lasting effects.

Precautionary statements

Do not breathe dust.
Do no eat, drink or smoke when using this product.
Contaminated work clothing should not be allowed out of the workplace.
Avoid release to the environment.
Wear protective gloves.
Wear eye protection.
IF SWALLOWED:Call a doctor if you feel unwell.
IF ON SKIN:Wash with plenty of water.
IF INHALED:Remove person to fresh air and keep comfortable for breathing.
IF IN EYES:Rinse cautiously with water for several minutes.Remove contact lenses, if present and easy to do. Continue rinsing.
Immediately call a doctor.

Collect spillage.

Store in a well-ventilated place.Keep container tightly closed.

Store locked up.

Dispose of container to local waste management provider..

4. Authorised use(s)

4.1 Use description

Use 1 - Sub-category 6.1: Washing and cleaning fluids and detergents

Product type	PT06 - Preservatives for products during storage (Preservatives)
Where relevant, an exact description of the authorised use	This use refers to the above-mentioned sub-category of Product Type 06 according to TAB version 1.2, 2016. The solid products of the Fungitrol Biocidal Product Family consist of the A.S. at a concentration of 100%. They are in-can preservatives which are pre-solved in an organic solvent (dilution: 5-30%) before use. The products of the Fungitrol Biocidal Product Family are used for industrial in-can preservation for a wide variety of products in PT6.
Target organism(s) (including development stage)	Scientific name: other Common name: Fungi/yeasts Development stage: vegetative cells
Field(s) of use	Indoor Preservation of washing and cleaning fluids and detergents
Application method(s)	Method: Closed system Detailed description: The in-can preservation of all end-products is performed by industrial users in most cases highly automated . The in-can preservation (i.e. mixture of the end-products) takes place under closed conditions. Infrequently, the addition of the biocidal products can also be performed partly automated or manually.
Application rate(s) and frequencies	Application Rate: Final concentration of the active substance: 0.005- 0.05% (w/w) (0.05- 0.50 g/kg) Dilution (%): 5-30% Number and timing of application: Once per production run of the treated article.
Category(ies) of users	Industrial
Pack sizes and packaging material	Cardboard box (inner LDPE plastic bag): 20–25 kg (for solid formulations). Closure: tape Fiber drum (inner LDPE plastic bag): 25–50 kg (for solid formulations). Closure: Steel

cover with lever lock ring.

4.1.1 Use-specific instructions for use

Identical for all uses. See general directions for use.

4.1.2 Use-specific risk mitigation measures

Identical for all uses. See general directions for use.

4.1.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Identical for all uses. See general directions for use.

4.1.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Identical for all uses. See general directions for use.

4.1.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Identical for all uses. See general directions for use.

4.2 Use description

Use 2 - Sub-category 6.2: Paints and coatings

Product type

PT06 - Preservatives for products during storage (Preservatives)

Where relevant, an exact description of the authorised use

This use refers to the above-mentioned sub-category of Product Type 06 according to TAB version 1.2, 2016. The solid products of the Fungitrol Biocidal Product Family consist of the A.S. at a concentration of 100%. They are in-can preservatives which are pre-solved in an organic solvent (dilution: 5-30%) before use.

Target organism(s) (including development stage)	The products of the Fungitrol Biocidal Product Family are used for industrial in-can preservation for a wide variety of products in PT6.
	Scientific name: other Common name: Fungi/yeasts Development stage: vegetative cells
Field(s) of use	Indoor
	Preservation of paints and coatings
Application method(s)	Method: Closed system Detailed description: The in-can preservation of all end-products is performed by industrial users in most cases highly automated . The in-can preservation (i.e. mixture of the end-products) takes place under closed conditions. Infrequently, the addition of the biocidal products can also be performed partly automated or manually.
Application rate(s) and frequencies	Application Rate: Final concentration of the active substance: 0.005- 0.1% (w/w) (0.05- 1.00 g/kg) Dilution (%): 5-30% Number and timing of application: Once per production run of the treated article.
Category(ies) of users	Industrial
Pack sizes and packaging material	Cardboard box (inner LDPE plastic bag): 20–25 kg (for solid formulations). Closure: tape Fiber drum (inner LDPE plastic bag): 25–50 kg (for solid formulations). Closure: Steel cover with lever lock ring.

4.2.1 Use-specific instructions for use

Identical for all uses. See general directions for use.

4.2.2 Use-specific risk mitigation measures

Identical for all uses. See general directions for use.

4.2.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Identical for all uses. See general directions for use.

4.2.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Identical for all uses. See general directions for use.

4.2.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Identical for all uses. See general directions for use.

4.3 Use description

Use 3 - Sub-category 6.3: Fluids used in leather and textile production

Product type

PT06 - Preservatives for products during storage (Preservatives)

Where relevant, an exact description of the authorised use

This use refers to the above-mentioned sub-category of Product Type 06 according to TAB version 1.2, 2016.
The solid products of the Fungitrol Biocidal Product Family consist of the A.S. at a concentration of 100%. They are in-can preservatives which are pre-solved in an organic solvent (dilution: 5-30%) before use.
The products of the Fungitrol Biocidal Product Family are used for industrial in-can preservation for a wide variety of products in PT6.

Target organism(s) (including development stage)

Scientific name: other
Common name: Fungi/yeasts
Development stage: vegetative cells

Field(s) of use

Indoor
Preservation of fluids used leather production

Application method(s)

Method: Closed system
Detailed description:
The in-can preservation of all end-products is performed by industrial users in most cases highly automated. The in-can preservation (i.e. mixture of the end-products) takes place under closed conditions. Infrequently, the addition of the biocidal products can also be performed partly automated or manually.

Application rate(s) and frequencies

Application Rate: Final concentration of the active substance: 0.005- 0.05% (w/w) (0.05- 0.50 g/kg)
Dilution (%): 5-30%
Number and timing of application:
Once per production run of the treated article.

Category(ies) of users

Industrial

Pack sizes and packaging material

Cardboard box (inner LDPE plastic bag): 20–25 kg (for solid formulations). Closure: tape

Fiber drum (inner LDPE plastic bag): 25–50 kg (for solid formulations). Closure: Steel cover with lever lock ring.

4.3.1 Use-specific instructions for use

Identical for all uses. See general directions for use.

4.3.2 Use-specific risk mitigation measures

Identical for all uses. See general directions for use.

4.3.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Identical for all uses. See general directions for use.

4.3.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Identical for all uses. See general directions for use.

4.3.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Identical for all uses. See general directions for use.

4.4 Use description

Use 4 - Sub-category 6.6: Glues and adhesives

Product type	PT06 - Preservatives for products during storage (Preservatives)
Where relevant, an exact description of the authorised use	<p>This use refers to the above-mentioned sub-category of Product Type 06 according to TAB version 1.2, 2016.</p> <p>The solid products of the Fungitrol Biocidal Product Family consist of the A.S. at a concentration of 100%. They are in-can preservatives which are pre-solved in an organic solvent (dilution: 5-30%) before use.</p> <p>The products of the Fungitrol Biocidal Product Family are used for industrial in-can preservation for a wide variety of products in PT6.</p>
Target organism(s) (including development stage)	<p>Scientific name: other Common name: Fungi/yeasts Development stage: vegetative cells</p>
Field(s) of use	<p>Indoor</p> <p>Preservation of glues and adhesives</p>
Application method(s)	<p>Method: Closed system Detailed description: The in-can preservation of all end-products is performed by industrial users in most cases highly automated. The in-can preservation (i.e. mixture of the end-products) takes place under closed conditions. Infrequently, the addition of the biocidal products can also be performed partly automated or manually.</p>
Application rate(s) and frequencies	<p>Application Rate: Final concentration of the active substance: 0.005- 0.1% (w/w) (0.05- 1.00 g/kg) Dilution (%): 5-30% Number and timing of application: Once per production run of the treated article.</p>
Category(ies) of users	Industrial
Pack sizes and packaging material	

Cardboard box (inner LDPE plastic bag): 20–25 kg (for solid formulations). Closure: tape

Fiber drum (inner LDPE plastic bag): 25–50 kg (for solid formulations). Closure: Steel cover with lever lock ring.

4.4.1 Use-specific instructions for use

Identical for all uses. See general directions for use.

4.4.2 Use-specific risk mitigation measures

Identical for all uses. See general directions for use.

4.4.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Identical for all uses. See general directions for use.

4.4.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Identical for all uses. See general directions for use.

4.4.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Identical for all uses. See general directions for use.

4.5 Use description

Use 5 - Sub-category 6.7: other: Preservation of raw material: admixtures (used in concrete)

Product type	PT06 - Preservatives for products during storage (Preservatives)
Where relevant, an exact description of the authorised use	<p>This use refers to the above-mentioned sub-category of Product Type 06 according to TAB version 1.2, 2016.</p> <p>The solid products of the Fungitrol Biocidal Product Family consist of the A.S. at a concentration of 100%. They are in-can preservatives which are pre-solved in an organic solvent (dilution: 5-30%) before use.</p> <p>The products of the Fungitrol Biocidal Product Family are used for industrial in-can preservation for a wide variety of products in PT6.</p>
Target organism(s) (including development stage)	<p>Scientific name: other Common name: Fungi/yeasts Development stage: vegetative cells</p>
Field(s) of use	<p>Indoor</p> <p>Preservation of raw material: Admixtures (used in matrices like concrete))</p>
Application method(s)	<p>Method: Closed system Detailed description: The in-can preservation of all end-products is performed by industrial users in most cases highly automated . The in-can preservation (i.e. mixture of the end-products) takes place under closed conditions. Infrequently, the addition of the biocidal products can also be performed partly automated or manually.</p>
Application rate(s) and frequencies	<p>Application Rate: Final concentration of the active substance: 0.005- 0.1% (w/w) (0.05- 1.00 g/kg) Dilution (%): 5-30% Number and timing of application: Once per production run of the treated article.</p>
Category(ies) of users	Industrial
Pack sizes and packaging material	<p>Cardboard box (inner LDPE plastic bag): 20–25 kg (for solid formulations). Closure: tape</p> <p>Fiber drum (inner LDPE plastic bag): 25–50 kg (for solid formulations). Closure: Steel cover with lever lock ring.</p>

4.5.1 Use-specific instructions for use

Identical for all uses. See general directions for use.

4.5.2 Use-specific risk mitigation measures

Identical for all uses. See general directions for use.

4.5.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Identical for all uses. See general directions for use.

4.5.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Identical for all uses. See general directions for use.

4.5.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Identical for all uses. See general directions for use.

4.6 Use description

Use 6 - Sub-category 6.7: other: Preservation of raw material: pigment pastes (to color a wide variety of products, e.g. paints)

Product type

PT06 - Preservatives for products during storage (Preservatives)

Where relevant, an exact description of the authorised use

This use refers to the above-mentioned sub-category of Product Type 06 according to TAB version 1.2, 2016.
The solid products of the Fungitrol Biocidal Product Family consist of the A.S. at a concentration of 100%. They are in-can preservatives which are pre-solved in an organic solvent (dilution: 5-30%) before use.
The products of the Fungitrol Biocidal Product Family are used for industrial in-can preservation for a wide variety of products in PT6.

Target organism(s) (including development stage)

Scientific name: other
Common name: Fungi/yeasts
Development stage: vegetative cells

Field(s) of use

Indoor

Pigment pastes used to color a wide variety of products (e.g. paints)

Application method(s)

Method: Closed system
Detailed description:
The in-can preservation of all end-products is performed by industrial users in most cases highly automated . The in-can preservation (i.e. mixture of the end-products) takes place under closed conditions. Infrequently, the addition of the biocidal products can also be performed partly automated or manually.

Application rate(s) and frequencies

Application Rate: Final concentration of the active substance: 0.006- 0.1% (w/w) (0.06- 1.00 g/kg)
Dilution (%): 5-30%
Number and timing of application:
Once per production run of the treated article.

Category(ies) of users

Industrial

Pack sizes and packaging material

Cardboard box (inner LDPE plastic bag): 20–25 kg (for solid formulations). Closure: tape

Fiber drum (inner LDPE plastic bag): 25–50 kg (for solid formulations). Closure: Steel cover with lever lock ring.

4.6.1 Use-specific instructions for use

Identical for all uses. See general directions for use.

4.6.2 Use-specific risk mitigation measures

Identical for all uses. See general directions for use.

4.6.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Identical for all uses. See general directions for use.

4.6.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Identical for all uses. See general directions for use.

4.6.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Identical for all uses. See general directions for use.

4.7 Use description

Use 7 - Sub-category 6.7: other: Preservation of raw material: inks

Product type	PT06 - Preservatives for products during storage (Preservatives)
Where relevant, an exact description of the authorised use	<p>This use refers to the above-mentioned sub-category of Product Type 06 according to TAB version 1.2, 2016.</p> <p>The solid products of the Fungitrol Biocidal Product Family consist of the A.S. at a concentration of 100%. They are in-can preservatives which are pre-solved in an organic solvent (dilution: 5-30%) before use.</p> <p>The products of the Fungitrol Biocidal Product Family are used for industrial in-can preservation for a wide variety of products in PT6.</p>
Target organism(s) (including development stage)	<p>Scientific name: other Common name: Fungi/yeasts Development stage: vegetative cells</p>
Field(s) of use	<p>Indoor</p> <p>Preservation of raw material: Pigment pastes used to color a wide variety of products (inks)</p>
Application method(s)	<p>Method: Closed system Detailed description: The in-can preservation of all end-products is performed by industrial users in most cases highly automated . The in-can preservation (i.e. mixture of the end-products) takes place under closed conditions. Infrequently, the addition of the biocidal products can also be performed partly automated or manually.</p>
Application rate(s) and frequencies	<p>Application Rate: Final concentration of the active substance: 0.005- 0.05% (w/w) (0.05- 0.50 g/kg) Dilution (%): 5-30% Number and timing of application: Once per production run of the treated article.</p>
Category(ies) of users	Industrial
Pack sizes and packaging material	Cardboard box (inner LDPE plastic bag): 20–25 kg (for solid formulations). Closure: tape

Fiber drum (inner LDPE plastic bag): 25–50 kg (for solid formulations). Closure:
Steel cover with lever lock ring.

4.7.1 Use-specific instructions for use

Identical for all uses. See general directions for use.

4.7.2 Use-specific risk mitigation measures

Identical for all uses. See general directions for use.

4.7.3 Where specific to the use, the particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

Identical for all uses. See general directions for use.

4.7.4 Where specific to the use, the instructions for safe disposal of the product and its packaging

Identical for all uses. See general directions for use.

4.7.5 Where specific to the use, the conditions of storage and shelf-life of the product under normal conditions of storage

Identical for all uses. See general directions for use.

5. General directions for use

5.1. Instructions for use

For industrial in-can preservation

Advice on safe handling:

The preservative is added to the system preferably via an automatic dosing system at a location where the preservative will be dispersed equally. The preservative can be added at any stage of the production of the product. Earliest possible addition is recommended for optimal protection. Consult the manufacturer to determine the optimal dosage for the various products to be preserved. Avoid formation of respirable particles. Avoid dust formation. Do not breathe vapours/dust. Provide sufficient air exchange and/or exhaust in work rooms. Avoid exceeding of the given occupational exposure limits. Smoking, eating and drinking should be prohibited in the application area. Maintain good housekeeping. Do not permit dust layers to accumulate, for example, on floors, ledges, and equipment, in order to avoid any potential for dust explosion hazards. The material can accumulate static charge and can therefore cause electrical ignition of flammable atmospheres. Ensure all equipment is electrically grounded and bonded before beginning transfer operations. Advice on protection against fire and explosion: Take measures to prevent the build up of electrostatic charge. Avoid dust formation. Provide appropriate exhaust ventilation at places where dust is formed.

5.2. Risk mitigation measures

Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of overexposure (from known, suspected or apparent adverse effects). Provide appropriate exhaust ventilation at places where dust is formed. Personal protective equipment

Hand protection: " Wear protective chemical resistant gloves during product handling phase (glove material to be specified by the authorisation holder within the product information)" . Eye protection: Safety glasses with side-shields. Skin and body protection: chemical resistant coated coveralls

Hygiene measures: Do not breathe dust. Keep away from food, drink and animal feedingstuffs. When using do not eat, drink or smoke. Ensure that eyewash stations and safety showers are close to the workstation location.

End use products:

The person responsible for the placing on the market of treated articles shall ensure that the label of these treated articles provides the following information:

For application by manual spraying, the following must be stated: " Wear protective chemical resistant coated coveralls during manual spraying".

The ground must be covered during in-situ application of the treated articles (paints and coatings) and any spillage should be collected . IPBC concentrations higher than 0.02% in the treated paint cannot be used for spray application.

Any solid/liquid waste from the de-inking process must be treated as special waste and handled according to local regulations.

5.3. Particulars of likely direct or indirect effects, first aid instructions and emergency measures to protect the environment

First aid
GENERAL: In case of an accident, suspected exposure or if you feel unwell, seek medical advice immediately (show the label where possible)
IF SWALLOWED: Do NOT induce vomiting: seek medical advice/attention immediately.
IF ON SKIN: Wash skin immediately with plenty of water.
IF IN EYES: Rinse continuously with water (preferably using eye wash) for at least 5 minutes. Eyelids open. Remove any contact lenses if present and easy to do so - continue rinsing. Seek medical attention if symptoms persist.
IF INHALED: Remove to fresh air. Seek medical attention if symptoms persist.
Emergency measures to protect the environment:
Avoid all unnecessary release to the environment; in particular avoid release to water.
Any losses should be collected for re-use and disposal.

5.4. Instructions for safe disposal of the product and its packaging

The product must be disposed of safely as hazardous waste. Any product collected during application that is not re-used must be disposed of safely as hazardous waste.
Do NOT dispose of unwanted product down drains.
Dispose of packaging and unused product in accordance with local regulations.
If required, consult a professional waste operator or local authority.

5.5. Conditions of storage and shelf-life of the product under normal conditions of storage

2 years.
Store in a cool, dry, well-ventilated place. Store in the original container tightly closed. Protect from frost.

6. Other information

Formulation type: XX Others: Powder to be pre-solved in an organic liquid before use.