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

1.1. Product identifier

Name of product Filterclean Tab
414856

1.2. Relevant identified uses of the substance or mixture and uses advised against
Recommended intended purpose(s)
Disinfectin and cleanin filters

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor
BAYROL Deutschland GmbH
Robert-Koch-Str. 4, D-82152 Planegg
Phone +49 (0) 89 85701-0

Advice
E-mail (competent person):
ASchwarzenboeck@bayrol.eu

1.4. Emergency telephone number
NCEC, Phone (+44)(0)1865407333

SECTION 2: Hazards identification

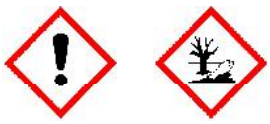
2.1. Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Acute Tox. 4		
Eye Irrit. 2	**H319**	
STOT SE 3	**H335**	
Aquatic Acute 1		
Aquatic Chronic 1	**H410**	

Hazard Statements

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

2.2. Label elements
Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07 GHS09

Signal word
Warning

Hazard Statements

H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary Statements

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children.
P270	Do no eat, drink or smoke when using this product.
P280	Wear protective gloves/eye protection.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

Hazardous ingredients for labeling
symclosene, troclosene sodium

Supplemental Hazard information (EU)
Contact with acids liberates toxic gas.

Special rules for supplemental label elements for certain mixtures
Warning! Do not use together with other products. May release dangerous gases (chlorine).

2.3. Other hazards
Preparation contains CMR-substance at concentration levels just below those that require special labelling.

Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

SECTION 3: Composition/ information on ingredients

3.1. Substances
not applicable

3.2. Mixtures
Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
87-90-1	201-782-8	symclosene	57	Ox. Sol. 2, H272 / Acute Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
2893-78-9	220-767-7	troclosene sodium	35	Ox. Sol. 2, H272 / Acute Tox. 4, H302 / Eye Irrit. 2, H319 / STOT SE 3, H335 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
10043-35-3	233-139-2	boric acid	4,9	Repr. 1B, H360FD

REACH

CAS No	Name	REACH registration number

REACH (continued)

CAS No	Name	REACH registration number
10043-35-3	**boric acid**	**01-2119486683-25-XXXX**

SECTION 4: First aid measures

4.1. Description of first aid measures
General information
Remove contaminated soaked clothing immediately.
Take affected person into fresh air.

In case of inhalation
Remove the casualty into fresh air and keep him immobile.
Refer for medical treatment.

In case of skin contact
In case of contact with skin wash off immediately with plenty of water.

In case of eye contact
In case of contact with eyes rinse thoroughly with water.
Refer to medical treatment.

In case of ingestion
Call for a doctor immediately.
If swallowed give water to drink.

4.2. Most important symptoms and effects, both acute and delayed
Physician's information / possible dangers
May cause irritation of respiratory tract.

4.3. Indication of any immediate medical attention and special treatment needed
Treatment (Advice to doctor)
Treat symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
Large quantities of water
Carbon dioxide
sand

Unsuitable extinguishing media
Small quantities of water
foam

5.2. Special hazards arising from the substance or mixture
Nitrogen trichloride
In the event of fire the following can be released:
Nitrogen oxides (NOx)
Carbon monoxide (CO)
Carbon dioxide (CO2)
Chlorine (Cl2)

5.3. Advice for firefighters
Special protective equipment for fire-fighters
Use breathing apparatus with independent air supply.
Wear full protective clothing.

Additional information
Cool endangered containers with water spray jet.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
For non-emergency personnel
Ensure adequate ventilation.
Avoid dust formation.
Use personal protective clothing.
Use breathing apparatus if exposed to vapours/dust/aerosol.

6.2. Environmental precautions
Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up
Take up mechanically and send for disposal.

Additional Information
Neutralize active chlorine with suitable materials (Sulphite, Thiosulphate or hydrogen peroxide aqueous solution)

6.4. Reference to other sections
Safe handling: see section 7
Disposal: see section 13
Personal protection equipment: see section 8
Emergency telephone number: see section 1

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Advice on safe handling
Use only in well-ventilated areas.

General protective measures
Avoid contact with eyes and skin
Do not inhale dust.

Hygiene measures
At work do not eat, drink and smoke.
Keep away from food and drink.
Wash hands before breaks and after work.

Advice on protection against fire and explosion
Keep away from sources of ignition - No smoking
Keep at distance of acids, reducing agents and organic substances (e.g.wood, paper, fat).
Avoid entering of water in shortage.

7.2. Conditions for safe storage, including any incompatibilities
Requirements for storage rooms and vessels
Keep only in original container.

Advice on storage compatibility
Do not store together with food.

Further information on storage conditions
Keep container tightly closed.
Storage: cool and dry

Information on storage stability
Storage time: 5 years.

7.3. Specific end use(s)
Recommendation(s) for intended use
See section 1.2

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]		Remark
7782-50-5	chlorine	8 hours	1,5	0,5	1(I)	DFG, EU, Y

8.2. Exposure controls
Respiratory protection
In case of dust formation wear micro dust mask.

Hand protection
chemical-resistant gloves
Suitable materials (recommended: protection index 6, >480 minutes permeation time according to EN 374)
Nitrile-butadiene rubber (NBR) - 0.4 mm layer thickness
Butyl rubber (butyl) - 0.7mm layer thickness
In view of the many different types, the manufacturers' directions for use must be followed

Eye protection
tightly fitting goggles

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	Colour	Odour
tablet	blue	slight chlorine

Odour threshold
not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 6	20 °C	10 g/l		
Boiling temperature / boiling range	not determined				
decomposition point	240 - 250 °C				
Flash point	not determined				

	Value	Temperature	at	Method	Remark
Vapourisation rate	not determined				
Flammable (solid)	not determined				
Flammability (gas)	not determined				
Ignition temperature	not determined				
Self ignition temperature	not determined				
Lower explosion limit	not determined				
Upper explosion limit	not determined				
Vapour pressure	not determined				
Relative density	1,6 g/cm3				
Vapour density	not determined				
Solubility in water	21 g/l	25 °C			
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	not determined				
Decomposition temperature	not determined				
Viscosity	not determined				

Oxidising properties
No information available.

Explosive properties
No information available.

9.2. Other information
No information available.

SECTION 10: Stability and reactivity

10.1. Reactivity
Thermal decomposition can lead to the escape of irritating gases and vapours.

10.2. Chemical stability
Decomposition temperature:
240°C - 250°C

10.3. Possibility of hazardous reactions
Contact with acids liberates toxic gases.

10.4. Conditions to avoid
Reactions with combustible substances.
Reactions with acids.
Reactions with fats and oils.
Reactions with impurities.
Reactions with organic substances.

10.5. Incompatible materials
Substances to avoid
Oil
Acid

10.6. Hazardous decomposition products
Nitrogen trichloride
Nitrous oxides (NOx)
Hydrogen chloride (HCl)
Chlorine

Additional information
Product may cause bleaching textiles, liners, paintings etc. Chlorine gas may decompose metals and is corrosive.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	300 - 2000 mg/kg	rat		
Eye irritation	irritant			

Subacute Toxicity - Carcinogenicity

	Value	Species	Method	Validation
Mutagenicity				No data available
Reproduction-Toxicity				No data available
Carcinogenicity				No data available

Experiences made from practice
Irritates respiratory tract.
Irritates mucous membranes.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 < 1 mg/l (96 h)	Lepomis macrochirus		

	Value	Species	Method	Validation
Daphnia	EC50 < 1 g/m3 (48 h)	Daphnia magna		

12.2. Persistence and degradability
No information available.

12.3. Bioaccumulative potential
No information available.

12.4. Mobility in soil
No information available.

12.5. Results of PBT and vPvB assessment
The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects
General regulation
Product is not allowed to be discharged into aquatic environment, drains or sewage treatment plants.

! SECTION 13: Disposal considerations

13.1. Waste treatment methods

! **Waste code No.**	**Name of waste**
16 05 09	discarded chemicals other than those mentioned in 16 05 06, 16 05 07 or 16 05 08

! **Recommendations for the product**
Remove in accordance with local official regulations.
Dispose of as hazardous waste.
The product should not be allowed to enter drains, water courses or the soil.

Recommendations for packaging
Uncontaminated packaging may be taken for recycling.

Recommended cleansing agent
Water

SECTION 14: Transport information

	ADR/RID	**IMDG**	**IATA-DGR**
14.1. UN number	3077	3077	3077
14.2. UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N. O.S. (symclosene)	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (symclosene)	Environmentally hazardous substance, solid, n.o.s. (symclosene)
14.3. Transport hazard class(es)	9	9	9
14.4. Packing group	III	III	III
14.5. Environmental hazards	Yes	Yes	Yes

14.6. Special precautions for user
No information available.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
No information available.

Land and inland navigation transport ADR/RID
Hazard label(s) 9
tunnel restriction code E
Classification code M7

Marine transport IMDG
MARINE POLLUTANT

! SECTION 15: Regulatory information

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

! **Other regulations (EU)**
Regulation (EU) 1272/2008 (CLP), Regulation (EU) 1907/2006 (REACH), DECISION 2000/532/EG (list of wastes)
Regulation (EU) 528/2012 (BPR)

15.2. Chemical Safety Assessment
Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Recommended uses and restrictions
National and local regulations concerning chemicals shall be observed.

Further information
Refer to product information paper.
The information contained herein is based on the state of our knowledge. It characterizes the product with regard to the appropriate safety precautions. It does not represent a guarantee of the properties of the product.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 2.6
Sources of key data used
Results of own researches and examinations
Literature informations
Toxicity studies, NIOSH-Tox-Data
National legislation and regulation

H272	May intensify fire; oxidiser.
H302	Harmful if swallowed.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H360FD	May damage fertility or the unborn child (state specific effect if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.