
! SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Name of product Varitab (C1)
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.de

1.4. Emergency telephone number

Emergency advice Giftnotruf München (oder jedes andere Giftinformationszentrum)
Phone +49 (0) 89 19240

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Classification according to 67/548/EEC or 1999/45/EC**

Xn; R22
R31
Xi; R36/37
N; R50/53

R-phrases

22 Harmful if swallowed.
31 Contact with acids liberates toxic gas.
36/37 Irritating to eyes and respiratory system.
50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
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Acute Tox. 4

Eye Irrit. 2	H319
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STOT SE 3	H335
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Aquatic Acute 1

Aquatic Chronic 1	H410
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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

P102	Keep out of reach of children.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face 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.
P309 + P311	IF exposed or if you feel unwell: Call a POISON CENTER or doctor/physician.
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**

Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
87-90-1	201-782-8	symclosene	57	O R8; Xn R22; Xi R36/37; R31; N R50-53 E R2; O R8; Xn R22; Xi R36/37; R31; N R50-53
2893-78-9	220-767-7	troclosene sodium	35	
10043-35-3	233-139-2	boric acid	4,9	Repr.Cat.2 R60-61

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 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	
10043-35-3	233-139-2	boric acid	4,9	Repr. 1B, H360FD

REACH

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

No information available.

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 (NO_x)
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

No information available.

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

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**

tablet

Colour

blue

Odour

typical, pungent

Odour threshold

No information available.

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 6	20 °C	10 g/l		
Boiling temperature / boiling range	No information available.				
decomposition point	240 - 250 °C				
Flash point	No information available.				
Vapourisation rate	No information available.				
Flammable (solid)	No information available.				
Flammability (gas)	No information available.				
Ignition temperature	No information available.				
Self ignition temperature	No information available.				
Lower explosion limit	No information available.				
Upper explosion limit	No information available.				
Vapour pressure	No information available.				
Relative density	1,6 g/cm ³				
Vapour density	No information available.				
Solubility in water	21 g/l	25 °C			
Solubility/other	No information available.				
Partition coefficient n-octanol/water (log P O/W)	No information available.				
Decomposition temperature	No information available.				
Viscosity	No information available.				

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

Materials 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/Irritability/Sensitization

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

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		
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

Recommendations for the product

Remove in accordance with local official regulations.

There are no harmonised regulations on the disposal of chemicals in the member states of the EU. In Germany the Recycling and Waste Management Act (KrWG) stipulates recycling as a requirement.

Recommendations for packaging

Untaminated 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

	ADR/RID	IMDG	IATA-DGR
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

SECTION 15: Regulatory information
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Other regulations (EU)

Please note:

Observe regulation 98/24/EC for employee health protection against the threat of chemical substances in the workplace.

Biocide directive (98/8/EC).

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.

Biozide sicher verwenden. Vor Gebrauch stets Kennzeichnung und Produktinformation lesen.

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: 1.8

Sources of key data used

Results of own researches and examinations

Literature informations

Toxicity studies, NIOSH-Tox-Data

National legislation and regulation

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 2 Risk of explosion by shock, friction, fire or other sources of ignition.

R 22 Harmful if swallowed.

R 31 Contact with acids liberates toxic gas.

R 36/37 Irritating to eyes and respiratory system.

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

R 60 May impair fertility.

R 61 May cause harm to the unborn child.

R 8 Contact with combustible material may cause fire.

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.