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

#### 1.1 Product identifier

## iCheck Chroma reagent

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

## 1.2.1 Relevant uses

Test reagent

1.2.2 Uses advised against

None known.

#### 1.3 Details of the supplier of the safety data sheet

Company BioAnalyt GmbH

Rheinstr. 17

14513 Teltow / GERMANY Phone +49 (0)3328-35150-00 Fax +49 (0)3328-35150-29 Homepage www.bioanalyt.com E-mail contact@bioanalyt.com

Address enquiries to

Technical information contact@bioanalyt.com
Safety Data Sheet sdb@chemiebuero.de

1.4 Emergency telephone number

**Company** +49 (0)3328-35150-00 Mo-Fr 8:30 - 17:30

## **SECTION 2: Hazards identification**

#### 2.1 Classification of the substance or mixture [REGULATION (EC) No 1272/2008]

Skin Corr. 1B: H314 Causes severe skin burns and eye damage.

Eye Dam. 1: H318 Causes serious eye damage. Acute Tox. 4: H302 Harmful if swallowed. Acute Tox. 3: H331 Toxic if inhaled. Carc. 2: H351 Suspected of causing cancer.

Repr. 2: H361d Suspected of damaging the unborn child.

STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure.

STOT SE 3: H335 May cause respiratory irritation.

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.

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#### 2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word DANGER

Contains: Trichloromethane

Antimontrichlorid

Hazard statements H314 Causes severe skin burns and eye damage.

H302 Harmful if swallowed. H331 Toxic if inhaled.

H351 Suspected of causing cancer.

H361d Suspected of damaging the unborn child.

H372 Causes damage to organs through prolonged or repeated exposure.

H335 May cause respiratory irritation.

H411 Toxic to aquatic life with long lasting effects.

**Precautionary statements** P260 Do not breathe vapours / spray.

P273 Avoid release to the environment.

P280 Wear protective gloves / protective clothing / eye protection / face protection. P301+P330+P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing.

Rinse skin with water [or shower].

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove

contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER / doctor.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

#### 2.3 Other hazards

**Human health dangers** If swallowed or in the event of vomiting, risk of product entering the lungs.

**Environmental hazards** The product/the substance is hazardous to water.

Other hazards Further hazards were not determined with the current level of knowledge.

## **SECTION 3: Composition / Information on ingredients**

## Product-type:

The product is a mixture.

Range [%]	Substance
10 - <100	Trichloromethane
	CAS: 67-66-3, EINECS/ELINCS: 200-663-8, EU-INDEX: 602-006-00-4, Reg-No.: 01-2119486657-20-XXXX
	GHS/CLP: Carc. 2: H351 - Acute Tox. 4: H302 - Skin Irrit. 2: H315 - Repr. 2: H361d - Acute Tox. 3: H331 - STOT RE 1: H372 - Eye Irrit. 2: H319
10 - <90	Antimontrichlorid
	CAS: 10025-91-9, EINECS/ELINCS: 233-047-2, EU-INDEX: 051-001-00-8
	GHS/CLP: Skin Corr. 1B: H314 - Aquatic Chronic 2: H411

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.

For full text of H-statements: see SECTION 16.

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## **SECTION 4: First aid measures**

## 4.1 Description of first aid measures

General information Remove contaminated soaked clothing immediately and dispose of safely.

**Inhalation** Consult a doctor immediately.

Ensure supply of fresh air.

Remove the victim into fresh air and keep him calm.

In case of respiratory arrest induce breathing with a respiratory device. Seek medical advice.

Skin contact Immediate medical treatment necessary, as untreated burns can result in slow-healing

wounds

In case of contact with skin wash off immediately with soap and water.

**Eye contact** Consult a doctor immediately.

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy

to do. Continue rinsing.

**Ingestion** Consult a doctor immediately.

Do not induce vomiting.

Rinse mouth.

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

Product is caustic. Nausea, vomiting. Headache Cough

Shortness of breath

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

If swallowed or in the event of vomiting, risk of product entering the lungs.

Treat symptomatically.

## SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media foam, dry powder, water spray jet, carbon dioxide

Extinguishing media that must not

oe used

Full water jet.

## 5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

Phosgene (COCI2). Hydrogen chloride (HCI). Carbon monoxide (CO) Carbon dioxide (CO2)

Metal oxides.

## 5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.

Use self-contained breathing apparatus.

Wear full protective suit.

Collect contaminated firefighting water separately, must not be discharged into the drains. Fire residues and contaminated firefighting water must be disposed of in accordance within

the local regulations.

## SECTION 6: Accidental release measures

## 6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Wear suitable protective equipment. For personal protection see SECTION 8.

Use breathing apparatus if exposed to vapours/aerosol.

Remove persons to safety.

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## 6.2 Environmental precautions

Prevent spread over a wide area (e.g. by containment or oil barriers).

Do not discharge into the drains/surface waters/groundwater.

In case the product spills into drains/surface waters/groundwater, immediately inform the

authorities.

#### 6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder). Dispose of absorbed material in accordance within the regulations.

#### 6.4 Reference to other sections

See SECTION 8+13

## **SECTION 7: Handling and storage**

## 7.1 Precautions for safe handling

Use only in well-ventilated areas.

Provide suitable vacuuming at the processing machines and in the processing area.

Provide good room ventilation even at ground level (vapours are heavier than air).

Place the container in an upright position and protect it against falling over.

Open and handle container with care.

Read label for instructions in use of product.

After worktime and before work breaks the affected skin areas must be thoroughly cleaned.

Do not eat, drink, smoke or take drugs at work.

Remove contaminated soaked clothing immediately and dispose of safely.

Take off contaminated clothing and wash before reuse.

Use barrier skin cream.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.

Prevent penetration into the ground.

Do not store together with oxidizing agents.

Store locked up.

Keep container tightly closed.

Keep container in a well-ventilated place.

Protect from light.

Keep in a cool place. Store in a dry place.

#### 7.3 Specific end use(s)

See product use, SECTION 1.2

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## SECTION 8: Exposure controls / personal protection

#### 8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance

Antimontrichlorid

CAS: 10025-91-9, EINECS/ELINCS: 233-047-2, EU-INDEX: 051-001-00-8

Long-term exposure: 0,5 mg/m³, as Sb

Trichloromethane

CAS: 67-66-3, EINECS/ELINCS: 200-663-8, EU-INDEX: 602-006-00-4, Reg-No.: 01-2119486657-20-XXXX

Long-term exposure: 2 ppm, 9,9 mg/m³, Sk

## Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES

Trichloromethane

CAS: 67-66-3, EINECS/ELINCS: 200-663-8, EU-INDEX: 602-006-00-4, Reg-No.: 01-2119486657-20-XXXX

Eight hours: 2 ppm, 10 mg/m3, H

#### **DNEL**

Substance

Trichloromethane, CAS: 67-66-3

Industrial, dermal, Long-term - systemic effects: 0,94 mg/kg bw/day.

Industrial, inhalative, Long-term - local effects: 2,5 mg/m³.

Industrial, inhalative, Acute - systemic effects: 333 mg/m³.

Industrial, inhalative, Long-term - systemic effects: 2,5 mg/m³.

## **PNEC**

Substance

Trichloromethane, CAS: 67-66-3

soil, 0,56 mg/kg.

sediment (seaater), 0,09 mg/kg.

sediment (freshwater), 0,45 mg/kg.

sewage treatment plants (STP), 0,048 mg/l.

seawater, 0,015 mg/l.

freshwater, 0,146 mg/l.

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#### 8.2 Exposure controls

Additional advice on system design 

Ensure adequate ventilation on workstation.

Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of

hazardous substances.

**Eye protection** Tightly fitting goggles. (EN 166:2001)

**Hand protection** The details concerned are recommendations. Please contact the glove supplier for further

information.

0,7 mm, Viton, >480 min (EN 374-1/-2/-3).

**Skin protection** Protective clothing.

**Other** Avoid contact with eyes and skin.

Do not inhale gases/vapours/aerosols.

Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to

chemicals should be ascertained with the respective supplier.

It is essential for pregnant women to avoid inhaling the product and not to let it come in

contact with the skin.

**Respiratory protection** Respiratory protection mask in the event of high concentrations.

Short term: filter apparatus, filter AX (DIN EN 14387).

Thermal hazards not applicable

Delimitation and monitoring of the environmental exposition

itoring of the Protect the environment by applying appropriate control measures to prevent or limit

emissions.

## SECTION 9: Physical and chemical properties

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

Form liquid
Color colourless
Odor characteristic

Odour threshold

pH-value

No information available.

pH-value [1%]

No information available.

Flammability (solid, gas) [°C] not applicable

Lower explosion limitNo information available.Upper explosion limitNo information available.

Oxidising properties no

Vapour pressure/gas pressure [kPa] No information available.

Density [g/ml] No information available.

Bulk density [kg/m³] not applicable

Solubility in water partially miscible

Partition coefficient [n-octanol/water] No information available.

Viscosity not applicable

Relative vapour density determined

in air

No information available

Evaporation speed No information available.

Melting point [°C] No information available.

Autoignition temperature [°C] not applicable

**Decomposition temperature [°C]**No information available.

#### 9.2 Other information

none

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## SECTION 10: Stability and reactivity

## 10.1 Reactivity

No dangerous reactions known if used as directed.

## 10.2 Chemical stability

Sensitivity to light.

## 10.3 Possibility of hazardous reactions

Reactions with alkalies (lyes).

Reactions with alcohols.

Reactions with oxidizing agents.

Reactions with light metals.

Reactions with water.

Reactions with halogenated compounds.

Reactions with peroxides.

## 10.4 Conditions to avoid

Strong heating.

Contact with moisture.

## 10.5 Incompatible materials

Rubber, various plastics Various metals.

## 10.6 Hazardous decomposition products

In the event of fire: See SECTION 5.

As a result of storage:

Phosgene.

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## **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

Acute toxicity

Product

ATE-mix, inhalation (vapour ), > 2 - 10 mg/l/4h.

ATE-mix, oral, > 300 - 2000 mg/kg.

Substance

Antimontrichlorid, CAS: 10025-91-9

LD50, oral, Rat: 525 mg/kg (Lit.).

Trichloromethane, CAS: 67-66-3

LD50, oral, Rat: 908 mg/kg (ECHA)

Serious eye damage/irritation Risk of serious damage to eyes.

Calculation method

**Skin corrosion/irritation** Product is caustic.

Calculation method

Respiratory or skin sensitisation

May cause respiratory irritation.

Specific target organ toxicity —

single exposure

Calculation method

Specific target organ toxicity —

repeated exposure

Causes damage to organs through prolonged or repeated exposure.

Calculation method No classification.

Mutagenicity
Reproduction toxicity

Suspected of damaging the unborn child.

Calculation method

**Carcinogenicity** Suspected of causing cancer.

Calculation method

Aspiration hazard

Based on the available information, the classification criteria are not fulfilled.

Based on the available information, the classification criteria are not fulfilled.

General remarks

Toxicological data of complete product are not available.

The toxicity data listed pertaining to the ingredients are intended for those working in the medicinal professions, experts for occupational health and safety and toxicologists. The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## SECTION 12: Ecological information

## 12.1 Toxicity

Substance

Antimontrichlorid, CAS: 10025-91-9

LC50, (48h), Daphnia magna: 10,1 mg/l (Lit.).

LC50, (96h), Pimephales promelas: 9 mg/l (Lit.).

IC50, Algae: 6 mg/l/36h (Lit.)

Trichloromethane, CAS: 67-66-3

EC50, (48h), aquatic micro-organisms: 152,5 mg/l.

ErC50, (72h), Algae: 13,3 mg/l.

## 12.2 Persistence and degradability

ThSB: 0,134 mg/mg (CAS 67-66-3) BOD 5: 20 mg/g (CAS 67-66-3)

CO2Th, Theoretical Carbon Dioxide: 0,3686 mg/mg (CAS 67-66-3)

Behaviour in environment

compartments

No information available

Behaviour in sewage plant No information available.

**Biological degradability**CAS 67-66-3: The product is not readily biodegradable.
CAS 10025-91-9: The product is not readily biodegradable.

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#### 12.3 Bioaccumulative potential

log Kow: 1,97 (25°C)(CAS 67-66-3, IUCLID)

## 12.4 Mobility in soil

The Organic Carbon normalised adsorption coefficient: 1,939-2,565 (CAS 67-66-3)

Henry Constant: 14.084 Pa m³/mol (CAS 67-66-3)

## 12.5 Results of PBT and vPvB assessment

No information available.

## 12.6 Other adverse effects

The product contains organically bound halogen in accordance with the formulation.

Do not discharge product unmonitored into the environment or into the drainage.

The toxicity data pertaining to the ingredients were supplied by the manufacturers of raw materials.

## **SECTION 13: Disposal considerations**

## 13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

**Product** 

For recycling, consult manufacturer.

Dispose of as hazardous waste.

Waste no. (recommended) 070103\*

060313\*

**Contaminated packaging** 

Uncontaminated packaging may be taken for recycling.

Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110\*

## **SECTION 14: Transport information**

#### 14.1 UN number

Transport by land according to

ADR/RID

2922

Inland navigation (ADN)

2922

Marine transport in accordance with IMDG

2922

Air transport in accordance with IATA 2922

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## 14.2 UN proper shipping name

Transport by land according to ADR/RID

Corrosive liquid, toxic, n.o.s. (Chloroform, Antimony trichloride)

- Classification Code

CT1

1 I

- Label



- ADR LQ

- ADR 1.1.3.6 (8.6)

Transport category (tunnel restriction code) 2 (E)

Inland navigation (ADN)

Corrosive liquid, toxic, n.o.s. (Chloroform, Antimony trichloride)

- Classification Code

CT1

- Label







Marine transport in accordance with **IMDG** 

Corrosive liquid, toxic, n.o.s. (Chloroform, Antimony trichloride)

- EMS

F-A, S-B

- Label







- IMDG LQ

Air transport in accordance with IATA Corrosive liquid, toxic, n.o.s. (Chloroform, Antimony trichloride, solution)

- Label





## 14.3 Transport hazard class(es)

Transport by land according to

ADR/RID

8

Inland navigation (ADN) 8

Marine transport in accordance with 8

**IMDG** 

Air transport in accordance with IATA 8

14.4 Packing group

Transport by land according to

ADR/RID

П

Inland navigation (ADN)

П

Marine transport in accordance with

**IMDG** 

Air transport in accordance with IATA II

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#### 14.5 Environmental hazards

Transport by land according to

ADR/RID

yes

Inland navigation (ADN)

yes

Manina to a control to a constant control

IMDG

Marine transport in accordance with MARINE POLLUTANT

Air transport in accordance with IATA yes

## 14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

## 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code

No information available.

## **SECTION 15: Regulatory information**

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

**EEC-REGULATIONS** 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008;

75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions

for people

Observe employment restrictions for young people.

Observe employment restrictions for mothers-to-be and nursing mothers.

**- VOC (2010/75/CE)** 10 - < 100%

## 15.2 Chemical safety assessment

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

## **SECTION 16: Other information**

## 16.1 Hazard statements (SECTION 03)

H411 Toxic to aquatic life with long lasting effects.

H314 Causes severe skin burns and eye damage.

H319 Causes serious eye irritation.

H372 Causes damage to organs through prolonged or repeated exposure.

H331 Toxic if inhaled.

H361d Suspected of damaging the unborn child.

H315 Causes skin irritation. H302 Harmful if swallowed. H351 Suspected of causing cancer.

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#### 16.2 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route

RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses

ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure

ATE = acute toxicity estimate

CAS = Chemical Abstracts Service

CLP = Classification, Labelling and Packaging

DMEL = Derived Minimum Effect Level
DNEL = Derived No Effect Level

EC50 = Median effective concentration

ECB = European Chemicals Bureau

EEC = European Economic Community

EINECS = European Inventory of Existing Commercial Chemical Substances

ELINCS = European List of Notified Chemical Substances

GHS = Globally Harmonized System of Classification and Labelling of Chemicals

IATA = International Air Transport Association

IBC-Code = International Code for the Construction and Equipment of Ships carrying

Dangerous Chemicals in Bulk

IC50 = Inhibition concentration, 50%

IMDG = International Maritime Code for Dangerous Goods

IUCLID = International Uniform Chemical Information Database

LC50 = Lethal concentration, 50%

LD50 = Median lethal dose

LC0 = lethal concentration, 0%

LOAEL = lowest-observed-adverse-effect level

MARPOL = International Convention for the Prevention of Marine Pollution from Ships

NOAEL = No Observed Adverse Effect Level NOEC = No Observed Effect Concentration

PBT = Persistent, Bioaccumulative and Toxic substance

PNEC = Predicted No-Effect Concentration

REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals

STP = Sewage Treatment Plant

TLV®/TWA = Threshold limit value - time-weighted average TLV®STEL = Threshold limit value - short-time exposure limit

VOC = Volatile Organic Compounds

vPvB = very Persistent and very Bioaccumulative

#### 16.3 Other information

Classification procedure

Skin Corr. 1B: H314 Causes severe skin burns and eye damage. (Calculation method)

Eye Dam. 1: H318 Causes serious eye damage. (Calculation method)

Acute Tox. 4: H302 Harmful if swallowed. (Calculation method)

Acute Tox. 3: H331 Toxic if inhaled. (Calculation method)

Carc. 2: H351 Suspected of causing cancer. (Calculation method)

Repr. 2: H361d Suspected of damaging the unborn child. (Calculation method)

STOT RE 1: H372 Causes damage to organs through prolonged or repeated exposure.

(Calculation method)

STOT SE 3: H335 May cause respiratory irritation. (Calculation method)

Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

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**Modified position** 

SECTION 2 been added: H318 Causes serious eye damage.

SECTION 2 been added: Eye Dam. 1

SECTION 2 been added: P273 Avoid release to the environment.

SECTION 2 been added: P403+P233 Store in a well-ventilated place. Keep container tightly

closed.

SECTION 2 deleted: P201 Obtain special instructions before use.

SECTION 4 been added: In case of respiratory arrest induce breathing with a respiratory

device. Seek medical advice.

SECTION 5 been added: Collect contaminated firefighting water separately, must not be

discharged into the drains.

SECTION 6 been added: Remove persons to safety.

SECTION 7 been added: Open and handle container with care.

SECTION 7 been added: Read label for instructions in use of product.

SECTION 7 been added: Take off contaminated clothing and wash before reuse.

SECTION 7 been added: Store locked up.

SECTION 7 been added: Place the container in an upright position and protect it against falling over.

falling over.

SECTION 7 been added: Provide good room ventilation even at ground level (vapours are

heavier than air).

SECTION 7 been added: Keep in a cool place. Store in a dry place.

SECTION 8 been added: Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

SECTION 9 deleted: not determined

SECTION 9 been added: No information available.

SECTION 10 been added: Phosgene.

SECTION 10 been added: As a result of storage:

SECTION 11 been added: Calculation method

SECTION 11 been added: Based on the available information, the classification criteria are

not fulfilled.

SECTION 11 been added: May cause respiratory irritation.

SECTION 11 been added: Causes damage to organs through prolonged or repeated

exposure.

SECTION 11 been added: Suspected of damaging the unborn child.

SECTION 11 been added: Suspected of causing cancer.

SECTION 11 been added: Based on the available information, the classification criteria are

not fulfilled.

SECTION 11 been added: Risk of serious damage to eyes.

SECTION 12 deleted: not determined

SECTION 12 been added: No information available.

SECTION 12 been added: The product is not readily biodegradable.

SECTION 15 been added: Observe employment restrictions for mothers-to-be and nursing

mothers.

SECTION 15 been added: Observe employment restrictions for young people.

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