

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

1. Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Commercial Product Name : GREEN FOR TRICHROME
Mat.-No./ Genisys-No. : 06521916001

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

Recommended restrictions : For professional users only.
on use

1.3 Details of the supplier of the safety data sheet

Company : Ventana Medical Systems
1910 E. Innovation Park Drive
85755 Tucson AZ

E-mail address :
Telephone : 1-800-227-2155 or 520-877-2155
Telefax :
Responsible Department :
In case of emergencies: : CHEMTREC 1-800-424-9300 (U.S. or
Canada)
1-703-527-3887
(International)

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1 H290: May be corrosive to metals.
Skin corrosion, Category 1A H314: Causes severe skin burns and eye damage.

Classification (67/548/EEC, 1999/45/EC)

Corrosive R35: Causes severe burns.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms :



Signal word : Danger

Hazard statements : H290 May be corrosive to metals.
H314 Causes severe skin burns and eye damage.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

Precautionary statements	:	Prevention:	
		P234	Keep only in original container.
		P264	Wash skin thoroughly after handling.
		P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
		Response:	
		P301 + P330 + P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
		P303 + P361 + P353	IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower.
		P304 + P340	IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
		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 or doctor/ physician.
		P321	Specific treatment (see supplemental first aid instructions on this label).
		P363	Wash contaminated clothing before reuse.
		P390	Absorb spillage to prevent material damage.
		Storage:	
		P405	Store locked up.
		P406	Store in corrosive resistant stainless steel container with a resistant inner liner.
		Disposal:	
		P501	Dispose of contents/ container to an approved waste disposal plant.

2.3 Other hazards

No information available.

3. Composition/information on ingredients

3.2 Mixtures

GREEN FOR TRICHROME

Classification (REGULATION (EC) No 1272/2008)

Corrosive to metals, Category 1
Skin corrosion, Category 1A

H290: May be corrosive to metals.
H314: Causes severe skin burns and eye damage.

Classification (67/548/EEC, 1999/45/EC)

Corrosive

R35: Causes severe burns.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

Remarks : No dangerous ingredients according to Regulation (EC) No. 1907/2006

4. First aid measures

4.1 Description of first aid measures

- General advice : Move out of dangerous area.
Consult a physician.
Show this safety data sheet to the doctor in attendance.
Do not leave the victim unattended.
- If inhaled : Move to fresh air.
If unconscious place in recovery position and seek medical advice.
If symptoms persist, call a physician.
- In case of skin contact : Immediate medical treatment is necessary as untreated wounds from corrosion of the skin heal slowly and with difficulty.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Small amounts splashed into eyes can cause irreversible tissue damage and blindness.
In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Continue rinsing eyes during transport to hospital.
Remove contact lenses.
Protect unharmed eye.
Keep eye wide open while rinsing.
If eye irritation persists, consult a specialist.
- If swallowed : Clean mouth with water and drink afterwards plenty of water.
Keep respiratory tract clear.
Do NOT induce vomiting.
Do not give milk or alcoholic beverages.
Never give anything by mouth to an unconscious person.
If symptoms persist, call a physician.
Take victim immediately to hospital.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms : No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable extinguishing media : High volume water jet

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : Do not allow run-off from fire fighting to enter drains or water courses.

5.3 Advice for firefighters

Special protective equipment for firefighters : Wear self contained breathing apparatus for fire fighting if necessary.

Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Use personal protective equipment. Refer to protective measures listed in sections 7 and 8.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains. Prevent further leakage or spillage if safe to do so. Local authorities should be advised if significant spillages cannot be contained.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust). Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

Treat recovered material as described in the section "Disposal considerations".

7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling : Do not breathe vapours/dust. Avoid contact with skin and eyes.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Dispose of rinse water in accordance with local and national regulations.
To prevent leaks or spillages from spreading, provide a suitable liquid retention system.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Keep container tightly closed in a dry and well-ventilated place.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Observe label precautions.
Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert or internal guidelines

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : Laboratory chemicals

8. Exposure controls/personal protection

Exposure Guidelines

GREEN FOR TRICHROME

Contains no substances with occupational exposure limit values.

Personal protective equipment

Eye protection : Eye wash bottle with pure water
Tightly fitting safety goggles
Wear face-shield and protective suit for abnormal processing problems.

Hand protection :
Nitrile rubber

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.
This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

application specified by us.

Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time.

The suitability for a specific workplace should be discussed with the producers of the protective gloves.

Skin and body protection : impervious clothing
Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures : When using do not eat or drink.
When using do not smoke.
Wash hands before breaks and at the end of workday.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

GREEN FOR TRICHROME

Appearance : liquid

Colour : green

Odour : slight

pH : 1.4

Melting point/range : no data available

Boiling point/boiling range : no data available

Flash point : not applicable

Flammability (solid, gas) : The product is not flammable.

Lower explosion limit : no data available

Upper explosion limit : no data available

Vapour pressure : no data available

Density : 0.9884 g/cm³

Water solubility : completely miscible

Partition coefficient: n-octanol/water : no data available

Ignition temperature : no data available

Thermal decomposition : Hazardous decomposition products formed under fire conditions.

Viscosity, dynamic : no data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

9.2 Other information

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

GREEN FOR TRICHROME

Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

10. Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Reacts with the following substances:
Acids
Bases
Oxidizing agents
Amines
Alcohol

: Further information: No decomposition if stored and applied as directed.

10.4 Conditions to avoid

Conditions to avoid : no data available

10.5 Incompatible materials

Materials to avoid : Acids
Bases
Oxidizing agents
Amines
Alcohol

10.6 Hazardous decomposition products

Hazardous decomposition products : In case of fire hazardous decomposition products may be produced such as:
Carbon oxides
nitrogen oxides (NO_x)
Sulphur oxides

11. Toxicological information

11.1 Information on toxicological effects

GREEN FOR TRICHROME

No ingredients are hazardous according to OSHA criteria.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

12. Ecological information

12.1 Toxicity

GREEN FOR TRICHROME

No ingredients are hazardous according to OSHA criteria.

12.2 Persistence and degradability

GREEN FOR TRICHROME

No ingredients are hazardous according to OSHA criteria.

12.3 Bioaccumulative potential

GREEN FOR TRICHROME

No ingredients are hazardous according to OSHA criteria.

12.4 Mobility in soil

GREEN FOR TRICHROME

No ingredients are hazardous according to OSHA criteria.

12.5 Results of PBT and vPvB assessment

GREEN FOR TRICHROME

No ingredients are hazardous according to OSHA criteria.

12.6 Other adverse effects

GREEN FOR TRICHROME

No ingredients are hazardous according to OSHA criteria.

13. Disposal considerations

13.1 Waste treatment methods

Product : Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company.
Can be disposed as waste water, when in compliance with local regulations.

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

Contaminated packaging : Empty remaining contents.
Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not re-use empty containers.

14. Transport information

14.1 UN number

DOT : 1789
IMDG : 1789
IATA : 1789

14.2 Proper shipping name

DOT : Hydrochloric acid
IMDG : Hydrochloric acid
IATA : Hydrochloric acid

14.3 Transport hazard class

DOT : 8
IMDG : 8
IATA : 8

14.4 Packing group

DOT
Packaging group : III
Labels : 8
Tunnel restriction code : packed, Transport in tanks
IMDG
Packaging group : III
Labels : 8
EmS Number : F-A, S-B
IATA_C
Packing instruction (cargo aircraft) : 856
Packaging group : III
Labels : 8
IATA_P
Packing instruction (passenger aircraft) : 852
Packaging group : III
Labels : 8

14.5 Environmental hazards

DOT
Environmentally hazardous : no

IMDG
Marine Pollutant : no

IATA



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

Environmentally hazardous : no

14.6 Special precautions for user

no data available

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Remarks : not applicable

15. Regulatory information

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

GREEN FOR TRICHROME
REGULATORY INFORMATION

OSHA Hazards : No OSHA Hazards

WHMIS Classification : D2B Toxic Material Causing Other Toxic Effects
Mutagen
E Corrosive Material
Corrosive to metals

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all of the information required by the CPR.

CERCLA Reportable Quantity

Components : hydrogen chloride 5000 lbs

SARA 302 Reportable Quantity

Product : This material does not contain any components with a SARA 302 RQ.

SARA 311/312 Hazards : No SARA Hazards

EPCRA - Emergency Planning and Community Right-to-Know Act

SARA 302 : SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 : This material does not contain any components with a section 304 EHS RQ.

Clean Air Act

Ozone-Depletion Potential : This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013

The following chemical(s) are listed as HAP under the U.S. Clean Air Act, Section 12 (40 CFR 61):

hydrogen chloride 0.75 %

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

Clean Water Act

This product does not contain any Hazardous Substances listed under the U.S. CleanWater Act, Section 311, Table 116.4A.

This product does not contain any Hazardous Chemicals listed under the U.S. CleanWater Act, Section 311, Table 117.3.

US State Regulations

Massachusetts Right To Know

Components : hydrogen chloride 0.1 - 1 %

Pennsylvania Right To Know

Components : water 60 - 100 %
hydrogen chloride 0.1 - 1 %

New Jersey Right To Know

Components : water 60 - 100 %

California Prop 65 Components : This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

16. Other information

Full text of R-phrases referred to under sections 2 and 3

Full text of H-Statements referred to under sections 2 and 3.

Further information

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.



GREEN FOR TRICHROME

Version 1.1

Revision Date 09-26-2012

Print Date 05-13-2013