

IVD dispositivo medico-diagnostico in vitro

Picrofuchsin Van Gieson solution

Safety data sheet according to 1907/2006/EC, Article 31. Modified according to rules CE 453/2010

Printing date 27.07.2017. Version number 1.0. Revision: 27.07.2017

Generic EU MSDS - no country specific data - no OEL data

Material safety data sheet code 09-274

Product code 09-274

Stability of product properly conserved at 15-25°C 24 month.

Pack 100-200 ml or on request

Product identifier

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

Application of the substance - the preparation.

Laboratory Reagent.

Details of the supplier of the safety data sheet

Company identification.

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* 2 Hazards identification

Classification of the substance or mixture.

Classification according to Regulation (EC) No 1272/2008



H302

H302 Harmful if swallowed



H314

H314 Causes severe skin burns and eye damage

Label elements. Labelling according to Regulation (EC) No 1272/2008

The substance is classified and labelled according to the CLP regulation.

Hazard pictograms

Hazard pictograms



Signal word Danger • Hazard statements

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation
P201	Obtain special instructions before use.
P260	Do not breathe dust-fume-gas-mist-vapours-spray.
P305 + P351 + P338	If in eyes: rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing
P308 + P313	If exposed or concerned: get medical advice-attention.
Other hazards	
Results of PBT and vPvB assessment.	PBT: Not applicable. vPvB: Not applicable.

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*3 Composition - information on ingredients

Chemical characterization: substances. Description: mixture.

Mixtures of the following components in dH₂O. The H class below refer to undiluted components.

CAS n°	component	classification	description before dilution	pictograms	%
732-18-5	dh2o				balance
3244-88-0	acid fuchsine	H315 H315 H319	Carc. 2 Eye Irrit. 2 Skin Irrit. 2		<1,5%
7647-01-0	acido cloridrico	H290 H314 H335	Met. Corr.1 Skin Corr. 1B STOT SE 3		≤1,5%
88-89-1	acido picrico	H201 H301 H311 H331	Expl. 1.1 Acute Tox. 3, Acute Tox. 3 Acute Tox. 3,		≤1,2%

* 4 First aid measures

Description of first aid measures. General information. Immediately remove any clothing soiled by the product. Remove breathing equipment only after contaminated clothing have been completely removed. In case of irregular breathing or respiratory arrest provide artificial respiration. After inhalation. Supply fresh air or oxygen; call for doctor. In case of unconsciousness place patient stably in side position for transportation. After skin contact. Call a doctor immediately. Immediately wash with water and soap and rinse thoroughly. Wash contaminated clothing before reuse. After eye contact. Seek immediate medical advice. Rinse opened eye for several minutes under running water. Then consult a doctor. After swallowing. Never give anything by mouth to an unconscious person. Induce vomiting and call for medical help. Information for doctor. Show your the doctor this Material Safety Data Sheets. Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed. No further relevant information available.

* 5 Firefighting measures

General Information. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Extinguishing media. Suitable extinguishing agents: CO₂ or alcohol resistant foam. For safety reasons unsuitable extinguishing agents. Water with full jet. Special hazards arising from the substance or mixture. Can form explosive gas-air mixtures. During heating or in case of fire poisonous gases are produced. Carbon monoxide and carbon dioxide. Advice for firefighters. Protective equipment. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. In closed rooms wear a self contained breathing apparatus. Do not inhale gases in case or fire or combustion. Additional information Keep receptacles cool with water spray.

* 6 Accidental release measures

General Information: Use proper personal protective equipment as indicated in Section 8. Personal precautions, protective equipment and emergency procedures. Keep away any ignition source. Wear protective equipment. Keep unprotected persons away. If vapours - aerosols are formed, use personal protective equipment. Environmental precautions. Dilute with plenty of water after collecting the liquid. Prevent seepage into sewage system, work pits and cellars. Do not allow to enter sewers - surface or ground water. Inform respective authorities in case of seepage into water course or sewage system. Methods and material for containment and cleaning up. Ventilate area and wash spill site after material pickup is complete. Collect the liquid with vacuum in a suitable container and absorb the remainder with a porous material (diatomite, acid binders, universal binders, etc). Ensure adequate ventilation. Dispose contaminated material as waste according to item 13. Reference to other sections. See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

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* 7 Handling and storage

Handling. Precautions for safe handling. Avoid prolonged or repeated exposure. Avoid contact with eyes, skin, and clothing. Ensure good ventilation - exhaustion at the workplace. Only handle and refill product in closed systems or under local exhaust. Pneumatic conveyance only with nitrogen or other inert gases. Keep receptacles non-in use, tightly sealed. Open and handle receptacle with care. Information about fire - and explosion protection. Keep ignition sources away - Do not smoke. Protect against electrostatic charges. Keep respiratory protective device available. Conditions for safe storage, including any incompatibilities. Storage. Requirements to be met by storerooms and receptacles. Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Information about storage in one common storage facility: Store away from oxidizing agents. Specific end use(s) No further relevant information available.

* 8 Exposure controls - personal protection

Control parameters. Ingredients with limit values that require monitoring at the workplace: TLV not established. Additional information. The lists valid during the making were used as basis. Exposure controls. Personal protective equipment. In case of making of powders or aerosol, use an aqualung with approved filter. For a short period use a filtering apparatus suitable for the danger. General protective and hygienic measures: keep away from foodstuffs, beverages and feed. Wash hands before breaks and at the end of work. Respiratory protection: filter P2, in case of dust-producing handlings. Protection of hands. The selected protective gloves have to satisfy the specifications of EU directive 89/689/EEC and the standard EN 374 derived from it.



Protective gloves

Rubber gloves. Material of gloves. The glove material has to be impermeable and resistant to the product - the substance - the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation. The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. Penetration time of glove material. The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. Eye protection. Chemical safety goggles. Body protection. In case of pouring big amounts or disconnecting pipes.

* 9 Physical and chemical properties

Appearance form:	liquid
Odour:	typical acid like
Melting point-freezing point:	-9°C
Initial boiling point and boiling range:	105°C
Flash point:	520°C
Evaporation rate:	no data available
Flammability:	non flammable
Upper-lower flammability:	68°C
Explosive limits:	non explosive
Vapour pressure:	no data available
Vapour density:	no data available
Relative density:	no data available
Water solubility:	soluble
Auto ignition temperature:	520°C
Decomposition temperature:	no data available
Density at 20°C	1,15 g/ cm ³

* 10 Stability and reactivity

Reactivity. Chemical stability. Thermal decomposition - conditions to be avoided. No decomposition if used according to specifications. Conditions to avoid - heat, flames and sparks. Possibility of hazardous reactions. Can react violently with oxygen rich (oxidizing) material. Danger of Explosion. Conditions to avoid No further relevant information available. Incompatible materials: hydrogen peroxide. Hazardous decomposition products. Carbon monoxide, Carbon dioxide.

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* 11 Toxicological information

Information on toxicological effects. Acute toxicity:

Primary irritant effect:

On the skin:

no irritant effect.

On the eye:

no relevant irritating effects.

Ingestion:

it can be harmful if swallowed.

Inhalation:

may be harmful if inhaled.

Sensitization:

no sensitizing effects known.

Other information (about experimental toxicology). No more relevant data available

* 12 Ecological information

Toxicity- Aquatic toxicity - No further relevant information available. Persistence and degradability No further relevant information available. Method. Ecological information. The product is easily biodegradable. Behaviour in environmental systems. Bioaccumulative potential. No further relevant information available. Mobility in soil. No further relevant information available. Additional ecological information. General notes. Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water. Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system. Results of PBT and vPvB assessment. PBT: Not applicable. vPvB: Not applicable. Other adverse effects. No further relevant information available.

* 13 disposal considerations

Waste treatment methods. Recommendation. Must not be disposed together with household garbage. Do not allow product to reach sewage system. Reutilise if possible or contact a waste processors for recycling or safe disposal. Waste disposal key. The European Union does not establish uniform rules for the disposal of chemical waste, which are special waste. Their treatment and elimination of the domestic legislation of each country. So, in each case, you should contact the relevant authorities, or those companies legally authorized for elimination of waste. 2001/573/EC: Council Decision of 23 July 2001 amending the list of wastes contained in Decision 2000/532/EC. Council Directive 91/156/EEC of 18 March 1991 amending Directive 75/442/EEC on waste. Uncleaned packaging: The containers and packing materials contaminated with dangerous substances or preparations, have the same treatment products. Directive 94/62/EC of the European Parliament and the Council of 20 December 1994 on packaging and packaging waste. Recommendation. Disposal must be made according to official regulations. Packaging's that may not be cleansed are to be disposed of in the same manner as the product. Wash with solvents to be incinerated.

* 14 transport information

UN-Number	-
ADR, ADN, IMDG, IATA	Void
UN proper shipping name	-
ADR, ADN	Void
IMDG, IATA	N.A.
Transport hazard class(es)	
ADR, ADN, IMDG, IATA	
Class	Void
Packing group	
ADR, IMDG, IATA	Void
Environmental hazards:	
Marine pollutant:	No
Special precautions for user	Not applicable
UN "Model Regulation"	-

* 15 Regulatory information

Safety, health and environmental regulations, legislation specific for the substance or mixture. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code not applicable. Waterhazard class: Water hazard class 1 (Assessment by list): slightly hazardous for water. Chemical safety assessment. A Chemical Safety Assessment has not been carried out.

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* 16 additional information's

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.



Signal word Danger

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H335	May cause respiratory irritation

References.

ECDIN (Environmental Chem. Data and Information Network). IUCLID (International Uniform Chemical Information Database). NIOSH - Registry of Toxic Effects of Chemical Substances. Roth - Wassergefährdende Stoffe
Verschueren - Handbook of Environmental Data on Organic Chemicals. ChemDAT - Safety Data Sheets from E.Merck on CD-ROM. Merian - Metals and their compounds in the environment

Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Aviation Organization

ADR:Accordo Europeo sul trasporto delle merci pericolose su strada

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonized System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

ELINCS: European List of Notified Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

Sources.

Direttiva 67/548/CEE e successive modifiche ed adeguamenti

Direttiva 1999/45/CE e successive modifiche.

Regolamento (CE) N° 1907/2006 del Parlamento europeo e del Consiglio del 18 dicembre 2006, REACH.

Globally Harmonized System, GHS

Regolamento (CE) N° 1272/2008, del Parlamento europeo e del Consiglio del 16 dicembre 2008, CLP, e successive modifiche ADR 2013 Decreto legislativo 81/2008 e successive modifiche

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Short title of the exposure scenario Chemical products for laboratory

Sector of Use

SU3 Industrial uses: Uses of substances as such or in preparations at industrial sites

SU9 Manufacture of fine chemicals

SU10 Formulation [mixing] of preparations and/or re-packaging (excluding alloys)

SU24 Scientific research and development

Product category

PC19 Intermediate

PC20 Products such as ph-regulators, flocculants, precipitants, neutralization agents

PC21 Laboratory chemicals

PC29 Pharmaceuticals

PC39 Cosmetics, personal care products

PC40 Extraction agents

Process category

PROC1 Use in closed process, no likelihood of exposure

PROC2 Use in closed, continuous process with occasional controlled exposure

PROC3 Use in closed batch process (synthesis or formulation)

PROC4 Use in batch and other process (synthesis) where opportunity for exposure arises

PROC5 Mixing or blending in batch processes for formulation of preparations and articles (multistage and/or significant contact)

PROC9 Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC15 Use as laboratory reagent

Environmental release category

ERC1 Manufacture of substances

ERC2 Formulation of preparations

ERC4 Industrial use of processing aids in processes and products, not becoming part of articles

ERC6a Industrial use resulting in manufacture of another substance (use of intermediates)

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Description of the activities - processes covered in the Exposure Scenario

See section 1 of the annex to the Safety Data Sheet.

Conditions of use According to directions for use.

Duration and frequency 5 workdays/week.

Physical parameters

Physical state Fluid

Concentration of the substance in the mixture The substance is main component.

Used amount per time or activity

According to directions for use.

Smaller than 100 g per application.

Other operational conditions

Other operational conditions affecting environmental exposure

No special measures required.

Observe section 6 of the Safety Data Sheet (Accidental release measures).

Other operational conditions affecting worker exposure

Avoid contact with eyes.

Avoid contact with the skin.

Do not breathe gas/vapour/aerosol.

Other operational conditions affecting consumer exposure No special measures required.

Other operational conditions affecting consumer exposure during the use of the product Not applicable.

Risk management measures

Worker protection

Organisational protective measures

No special measures required.

Keep good industrial hygiene.

For special applications, it is recommended to verify the chemical resistance of the above stated protective gloves with the manufacturer.

Technical protective measures Ensure that suitable extractors are available on processing machines

Personal protective measures

Do not inhale gases - fumes - aerosols.

Avoid contact with the skin.

Avoid contact with the eyes.

Tightly sealed goggles

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Suitable respiratory protective device recommended in case of leakages or handling in open devices.

The selected protective gloves have to satisfy the specifications of EU Directive 89/689/EEC and the standard EN 374 derived from it.

Protective gloves

Rubber gloves

Measures for consumer protection Ensure adequate labelling.

Environmental protection measures

Water

Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.

Disposal measures

Disposal must be made according to official regulations.

Ensure that waste is collected and contained.

Disposal procedures

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Waste type. Partially emptied and uncleaned packaging

Exposure estimation

Consumer Not relevant for this Exposure Scenario.

Guidance for downstream users No further relevant information available.