

Safety Data Sheet
Giemsa Stain Kit (May-Grunwald) (EU)



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

1.1 Product identifier

Product name Giemsa Stain Kit (May-Grunwald) (EU)
Product number KT016
Brand Giemsa Stain Kit (May-Grunwald)

Other means of identification

Kit Component	Volume	Storage
1. May-Grunwald Stock Solution	30 ml	18-25°C
2. Giemsa Stock Solution	8 ml	18-25°C
3. Phosphate Buffer Solution, pH 6.8	2 x 60 ml	18-25°C
4. Graduated Mixing Vial		

1.2 Relevant identified uses of the substance or mixture and uses advised against
In Vitro Diagnostic Use

1.3 Details of the supplier of the safety data sheet

Name Diagnostic Biosystems
Address 6616 Owens Drive
Pleasanton CA 94588
USA

Telephone (888) 896-3350
email customersupport@dbiosys.com

1.4 Emergency telephone number

(925) 484-3350 (9AM-6PM, Monday - Friday, Pacific Standard Time)

SECTION 2: Hazards identification

General hazard statement
For Professional Users Only

2.1 Classification of the substance or mixture

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

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

- Acute toxicity, dermal (chapter 3.1), Cat. 3, H311
- Acute toxicity, inhalation (chapter 3.1), Cat. 2, H330
- Acute toxicity, inhalation (chapter 3.1), Cat. 3, H331
- Acute toxicity, oral (chapter 3.1), Cat. 3, H301
- Specific target organ toxicity following single exposure (chapter 3.8), Cat. 1, H370

For the full text corresponding to the "H"-codes displayed in this section, refer to Section 16.

2.2 Label elements

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

Hazard pictograms



1. Exclamation mark; 2. Skull and crossbones; 3. Health hazard

Signal word

Danger

Hazard statement(s)

H301	Toxic if swallowed
H311	Toxic in contact with skin
H317	May cause an allergic skin reaction
H330	Fatal if inhaled
H331	Toxic if inhaled
H370	Causes damage to organs

Precautionary statement(s)

P260	Do not breathe dust/fume/gas/mist/vapors/spray.
P264	Wash hands thoroughly after handling.
P270	Do not eat, drink or smoke when using this product.
P271	Use only outdoors or in a well-ventilated area.
P272	Contaminated work clothing must not be allowed out of the workplace.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P284	[In case of inadequate ventilation] wear respiratory protection.
P301+P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor.
P302+P352	IF ON SKIN: Wash with plenty of water.
P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P308+P311	IF exposed or concerned: Call a POISON CENTER/doctor.
P330	Rinse mouth.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P403+P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/container to a licensed disposal company.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

Component 1.

1. Methyl alcohol

Concentration <= 100 % (volume)

Other names / synonyms CARBINOL; COLONIAL SPIRIT; COLUMBIAN SPIRIT; Methanol; METHYL HYDROXIDE; METHYLALCOHOL; METHYLOL; MONOHYDROXYMETHANE; NA 1230 (DOT); PYROXYLIC SPIRIT; RCRA WASTE NUMBER U154; UN 1230 (DOT); WOOD ALCOHOL; WOOD NAPHTHA; WOOD SPIRIT

EC no. 200-659-6

CAS no. 67-56-1

Index no. 603-001-00-X

- Flammable liquids (chapter 2.6), Cat. 2
- Acute toxicity, inhalation (chapter 3.1), Cat. 3
- Acute toxicity, dermal (chapter 3.1), Cat. 3
- Acute toxicity, oral (chapter 3.1), Cat. 3
- Specific target organ toxicity, single exposure (chapter 3.8), Cat. 1

H225 Highly flammable liquid and vapor

H301 Toxic if swallowed

H311 Toxic in contact with skin

H331 Toxic if inhaled

H370 Causes damage to organs

SCLs/M-factors/ATEs *

STOT SE 1; H370: C ≥ 10 %

STOT SE 2; H371: 3 % ≤ C < 10 %

Component 2.

1. Methyl alcohol

Concentration <= 50 % (volume)

Other names / synonyms CARBINOL; COLONIAL SPIRIT; COLUMBIAN SPIRIT; Methanol; METHYL HYDROXIDE; METHYLALCOHOL; METHYLOL; MONOHYDROXYMETHANE; NA 1230 (DOT); PYROXYLIC SPIRIT; RCRA WASTE NUMBER U154; UN 1230 (DOT); WOOD ALCOHOL; WOOD NAPHTHA; WOOD SPIRIT

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SCLs/M-factors/ATEs *

STOT SE 1; H370: C ≥ 10 %

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

STOT SE 2; H371: 3 % ≤ C < 10 %

2. Glycerin

Concentration

≤ 50 % (volume)

Other names / synonyms

1,2,3-Propanetriol; 1,2,3-TRIHIDROXYPROPANE; 90 TECHNICAL GLYCERINE; GLYCERIN, ANHYDROUS; GLYCERIN, SYNTHETIC; Glycerin, U.S.P.; GLYCERINE; Glycerine ; GLYCERITOL; Glycerol; Glycerolum; GLYCYL ALCOHOL; SYNTHETIC GLYCERINE; TRIHYDROXYPROPANE

EC no.

200-289-5

CAS no.

56-81-5

3. Giemsa Stain

Concentration

≤ 0.8 % (weight)

Other names / synonyms

Giemsa's stain

CAS no.

51811-82-6

Component 3.

1. Sodium chloride

Concentration

≤ 1 % (weight)

Other names / synonyms

COMMON SALT; DENDRITIS; H.G. BLENDING; HALITE; Natrii chloridum; product-by-process definition polyazodyestuff obtained by coupling 4-[4-(1-amino-8-hydroxy-3,6-disulfo-2-naphthylazo)phenylsulfonamino]benzenediazonium with reaction mass of 4-carboxybenzenediazonium and diphenylamine-3-sulfo-4,4'-bis-diazonium, and further coupling of the obtained compounds with reaction mass of naphth-2-ol and 3-aminophenol, sodium salts; PUREX; ROCK SALT; SALINE; SALT; SEA SALT; Sodium chloride ; Sodium chloride (NaCl); SODIUMCHLORIDE; STERLING; TABLE SALT; TOP FLAKE; USP SODIUM CHLORIDE; WHITE CRYSTAL

EC no.

425-740-5

CAS no.

7647-14-5

Index no.

611-142-00-3

- Eye damage/irritation (chapter 3.3), Cat. 1

- Hazardous to the aquatic environment, long-term (chronic) (chapter 4.1), Cat. 3

H318

Causes serious eye damage

H412

Harmful to aquatic life with long lasting effects

2. Disodium phosphate

Concentration

≤ 1 % (weight),

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

Other names / synonyms	DIBASIC SODIUM PHOSPHATE; Dinatrii phosphas; DISODIUM HYDROGEN PHOSPHATE; Disodium hydrogenorthophosphate; DISODIUM MONOHYDROGEN PHOSPHATE; DISODIUM ORTHOPHOSPHATE; DISODIUM PHOSPHORIC ACID; DSP; EXCICATED SODIUM PHOSPHATE; Phosphoric acid, disodium salt; Phosphoric acid, sodium salt (1:2); SODA PHOSPHATE; SODIUM HYDROGEN PHOSPHATE; SODIUM MONOHYDROGEN PHOSPHATE (2:1:1); Sodium phosphate (Na ₂ H(PO ₄)); Sodium phosphate dibasic; Sodium phosphate, dibasic; SODIUM PHOSPHATE, DIBASIC HEPTAHYDRATE; SODIUMPHOSPHATE,DIBASIC
EC no.	231-448-7
CAS no.	7558-79-4

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes	Consult a physician. Show this safety data sheet to the doctor in attendance.
Following inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration. Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
Following skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
Following eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
Following ingestion	Call a poison center or doctor if you feel unwell. If vomiting occurs naturally, have victim lean forward to reduce the risk of aspiration. Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Acute and delayed symptoms and effects: May cause gastrointestinal irritation. Signs/symptoms may include abdominal pain, stomach upset, nausea, vomiting and diarrhea.
Self-protection of the first aider	Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures

5.1 Extinguishing media

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

Use extinguishing media appropriate for surrounding fire.

5.2 Special hazards arising from the substance or mixture

Methanol: Carbon oxides

Sodium chloride : Hydrogen chloride gas, Sodium oxides

Sodium phosphate dibasic: Oxides of phosphorus, Sodium oxides

Potassium chloride: Hydrogen chloride gas, Potassium oxides

5.3 Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

No data available.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas. For personal protection see section 8.

6.2 Environmental precautions

Should not be released into the environment. See Section 12 for additional ecological information.

6.3 Methods and material for containment and cleaning up

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13).

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

CAS: 56-81-5 (EC: 200-289-5)

Glycerin

ACGIH (USA): 10 mg/m³ TWA inhalation; Cal/OSHA: 10 mg/m³, PNOR PEL inhalation; 5 mg/m³, PNOR PEL inhalation; OSHA: 15 mg/m³ PEL inhalation; 5 mg/m³ PEL inhalation; 15 mg/m³ TWA inhalation; 5 mg/m³ TWA inhalation

CAS: 67-56-1 (EC: 200-659-6)

Methyl alcohol

ACGIH: 200 ppm TLV[®] inhalation; 250 ppm (ST) TLV[®] inhalation; Cal/OSHA: 1000 ppm PEL-C inhalation; 250 ppm PEL-ST inhalation; 200 ppm PEL-TWA inhalation; NIOSH: 250 ppm PEL-ST inhalation; 200 ppm REL-TWA inhalation; OSHA: 200 ppm, 260 mg/m³ PEL-TWA inhalation

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Individual protection measures, such as personal protective equipment

Pictograms



Eye and face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body protection

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place., The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Thermal hazards

No data available

Control banding approach

No data available.

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

Environmental exposure controls

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Clear
Colour	Not applicable
Odour	Odorless
Odour threshold	No data available.
pH	Not applicable
Melting point/freezing point	No data available.
Boiling point or initial boiling point and boiling range	No data available.
Flash point	No data available.
Evaporation rate	No data available.
Flammability	No data available.
Lower and upper explosion limit/flammability limit	No data available.
Vapor pressure	No data available.
Relative vapor density	No data available.
Density and/or relative density	No data available.
Solubility	No data available.
Partition coefficient n-octanol/water (log value)	No data available.
Auto-ignition temperature	No data available.
Decomposition temperature	No data available.
Kinematic viscosity	No data available.
Explosive properties	No data available.
Oxidizing properties	No data available.

Particle characteristics

No data available.

9.2 Other information

9.2.1 Information with regard to physical hazard classes

No data available.

9.2.2 Other safety characteristics

No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity

None under normal use conditions.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal use conditions.

10.4 Conditions to avoid

Exposure to moisture.

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

Avoid storing in direct sunlight and avoid extremes of temperature.

Heat, flames and sparks.

10.5 Incompatible materials

Methanol: Acid chlorides, Acid anhydrides, Oxidizing agents, Alkali metals, Reducing agents, Acids

Glycerine : Strong bases, Strong oxidizing agents

Sodium phosphate dibasic: Strong oxidizing agents, Strong acids

10.6 Hazardous decomposition products

Other decomposition products - No data available In the event of fire: see section 5

Glycerine : Other decomposition products - No data available
In the event of fire: see section 5

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

The ATE (dermal) of the mixture is: 300 mg/kg bw

The ATE (dusts-mists inhalation) of the mixture is: 0.5 mg/l

The ATE (gas inhalation) of the mixture is: 700 ppmV

The ATE (oral) of the mixture is: 100 mg/kg bw

Glycerol

LD50 Oral - Rat - 12,600 mg/kg

Methanol

LD50 Oral - Rat - 1,187 - 2,769 mg/kg

Sodium chloride

LD50 Oral - Rat - 3,550 mg/kg

Skin corrosion/irritation

Glycerol

LD50 Skin - Rabbit - >10,000 mg/kg

Methanol

LD50 Skin - Rabbit - 17,100 mg/kg

Sodium chloride

LD50 Skin - Rabbit - > 10,000 mg/kg

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

Serious eye damage/irritation

Causes serious eye irritation.

Respiratory or skin sensitization

Based on available data, classification data are not met

Germ cell mutagenicity

Based on available data, classification data are not met

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by IARC.

ACGIH: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Reproductive toxicity

Based on available data, classification data are not met

STOT-single exposure

No data available.

STOT-repeated exposure

No data available.

Aspiration hazard

Methanol

LD50 Inhalation - Rat - 128.2 mg/l - 4 h

Methanol

LD50 Inhalation - Rat - 87.6 mg/l - 6 h

Sodium chloride

LD50 Inhalation - Rat - > 42,000 mg/m³ - 1 hr

11.2 Information on other hazards

Endocrine disrupting properties

No data available.

Other information

No data available.

SECTION 12: Ecological information

12.1 Toxicity

Methanol

LC50 - Lepomis macrochirus (bluegill) - 15.400 mg/l - 96 h

Methanol

NOEC - Oryzias latipes - 7.900 mg/l - 200 h

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

Methanol
EC50 - Daphnia magna (water flea) - >10,000 mg/l - 48 h

Methanol
EC50 - Selenastrum capricornutum (green algae) - 22,000 mg/l - 96 h

Sodium chloride
LC50 - Lepomis macrochirus (bluegill) - 5,840 mg/l - 96 h

Sodium chloride
LC50 - Daphnia magna (water flea) - 1,661 mg/l - 48 h

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available.

12.7 Other adverse effects

No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product disposal

Offer surplus and non-recyclable solutions to a licensed disposal company.

Packaging disposal

Dispose of as unused product.

Waste treatment

No data available

Sewage disposal

Do not let product enter drains

Other disposal recommendations

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

SECTION 14: Transport information

14.1 UN Number	UN3287
14.2 UN Proper Shipping Name	Toxic liquid, inorganic, n.o.s.
14.3 Transport hazard class(es)	6.1
14.4 Packing group	III

Safety Data Sheet

Giemsa Stain Kit (May-Grunwald) (EU)

14.5 Environmental hazards

Marine pollutant

14.6 Special precautions for user

For professional users only.
Should not be released into the environment.

14.7 Maritime transport in bulk according to IMO instruments

Not shipped in bulk

SECTION 15: Regulatory information

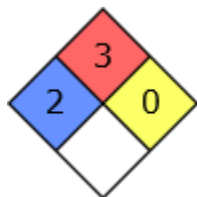
15.2 Chemical Safety Assessment

The supplier of this product has not conducted any Chemical Safety Assessment

HMIS Rating

Giemsa Stain Kit (May-Grunwald) (EU)	
HEALTH	2
FLAMMABILITY	3
PHYSICAL HAZARD	0
PERSONAL PROTECTION	C

NFPA Rating



SECTION 16: Other information

Full text of hazard statements referenced in Section 2

H301	Toxic if swallowed
H311	Toxic in contact with skin
H330	Fatal if inhaled
H331	Toxic if inhaled
H370	Causes damage to organs

SDS-0087, Rev. B

Further information/disclaimer

DISCLAIMER: The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigation to determine the suitability of information for their particular purposes. In no event shall Diagnostic BioSystems be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, whatsoever arising, even if Diagnostic BioSystems has been advised of the possibility of such damages.