

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



Safety Data Sheet
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SECTION 1: Identification

1.1 GHS Product identifier

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

1.2 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		

1.3 Recommended use of the chemical and restrictions on use

In Vitro Diagnostic Use

1.4 Supplier's details

Name Diagnostic Biosystems
Address 6616 Owens Drive
Pleasanton CA 94588
USA

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

1.5 Emergency phone number

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

SECTION 2: Hazard identification

General hazard statement
For Professional Users Only

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2.1 Classification of the substance or mixture

GHS classification in accordance with: OSHA (29 CFR 1910.1200)

- Acute toxicity, dermal (C.4.2), Cat. 3
- Acute toxicity, inhalation (C.4.3), Cat. 2
- Acute toxicity, inhalation (C.4.3), Cat. 3
- Acute toxicity, oral (C.4.1), Cat. 3
- Specific target organ toxicity (single exposure) (C.4.11), Cat. 1

2.2 GHS label elements, including precautionary statements

Pictogram



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

Component 1.

1. Methyl alcohol

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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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	STOT SE 1; H370: C ≥ 10 %
	STOT SE 2; H371: 3 % ≤ C < 10 %

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2. Glycerin

Concentration	<= 50 % (volume)
Other names / synonyms	1,2,3-Propanetriol; 1,2,3-TRIHYDROXYPROPANE; 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)phenylsulfonylamino]benzenediazonium with reaction mass of 4-carboxybenzenediazonium and diphenylamine-3-sulfo-4,4'-bisdiazonium, 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),
Other names / synonyms	DIBASIC SODIUM PHOSPHATE; Dinatrii phosphas; DISODIUM HYDROGEN PHOSPHATE; Disodium hydrogenorthophosphate; DISODIUM

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EC no.	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
CAS no.	231-448-7 7558-79-4

SECTION 4: First-aid measures

4.1 Description of necessary first-aid measures

General advice	Consult a physician. Show this safety data sheet to the doctor in attendance.
If inhaled	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.
In case of skin contact	Rinse with plenty of water. Get medical attention if irritation develops and persists.
In case of eye contact	Rinse thoroughly with plenty of water for at least 15 minutes. Get medical attention if symptoms occur.
If swallowed	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.
Personal protective equipment for first-aid responders	Ensure adequate ventilation. Use personal protective equipment. For personal protection see section 8.

4.2 Most important symptoms/effects, 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 immediate medical attention and special treatment needed, if necessary

No data available

SECTION 5: Fire-fighting measures

5.1 Suitable extinguishing media

Use extinguishing media appropriate for surrounding fire.

5.2 Specific hazards arising from the chemical

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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 Special protective actions for fire-fighters

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 materials 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).

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.

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

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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 Appropriate engineering controls

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

8.3 Individual protection measures, such as personal protective equipment (PPE)

Pictograms



Eye/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.

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 and safety characteristics

Physical state

Liquid

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Appearance	Clear
Color	Not applicable
Odor	Odorless
Odor 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.

Supplemental information regarding physical hazard classes

No data available.

Further safety characteristics (supplemental)

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.

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

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Glycerine : Strong bases, Strong oxidizing agents

Sodium phosphate dibasic: Strong oxidizing agents, Strong acids

Potassium chloride: Strong acids, Strong oxidizing agents

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

Information on toxicological effects

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

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

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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

Additional information

No data available.

SECTION 12: Ecological information

Toxicity

Methanol

LC50 - Lepomis macrochirus (bluegill) - 15,400 mg/l - 96 h

Methanol

NOEC - Oryzias latipes - 7,900 mg/l - 200 h

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

Persistence and degradability

No data available.

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Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

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

Endocrine disrupting properties

No data available.

Other adverse effects

No data available.

SECTION 13: Disposal considerations

Disposal 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

Environmental hazards

Marine pollutant

Special precautions for user

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

Transport in bulk according to IMO instruments

Not shipped in bulk

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations specific for the product in question

California Prop. 65 Components

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State of California to cause birth defects or other reproductive harm.

Methanol

CAS-No. 67-56-1

Chemical name: Methanol

CAS number: 67-56-1

03/16/2012 - Developmental toxicity

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

Canadian Domestic Substances List (DSL)

Chemical name: Methanol

CAS: 67-56-1

Chemical name: 1,2,3-Propanetriol

CAS: 30918-77-5

Chemical name: 1,2,3-Propanetriol

CAS: 56-81-5

Chemical name: Giemsa's stain

CAS: 51811-82-6

Chemical name: Sodium chloride (NaCl)

CAS: 7647-14-5

Chemical name: Phosphoric acid, disodium salt

CAS: 7558-79-4

Massachusetts Right To Know Components

Chemical name: Methanol

CAS number: 67-56-1

Glycerol

CAS-No. 56-81-5

Chemical name: Sodium phosphate, dibasic

CAS number: 7558-79-4

New Jersey Right To Know Components

Chemical name: Methanol

CAS number: 67-56-1

Glycerol

CAS-No. 56-81-5

Sodium chloride

CAS-No. 7647-14-5

Chemical name: Sodium phosphate, dibasic

CAS number: 7558-79-4

Pennsylvania Right To Know Components

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Chemical name: Methanol
CAS number: 67-56-1

Glycerol
CAS-No. 56-81-5

Sodium chloride
CAS-No. 7647-14-5

Chemical name: Sodium phosphate, dibasic
CAS number: 7558-79-4

SARA 302 Components

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

SARA 311/312 Hazards

Chronic Health Hazard

No SARA Hazards

SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

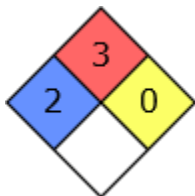
15.2 Chemical Safety Assessment

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

HMIS Rating

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

NFPA Rating



SECTION 16: Other information

SDS-0087, Rev. B

16.1 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

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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.