



GRAM STAINING KIT

Version 1.2

Revision Date 05-10-2013

Print Date 06-11-2013

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

1.1 Product identifier

Commercial Product Name : GRAM STAINING KIT
 Mat.-No./ Genisys-No. : 06890105001

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

Recommended restrictions on use : For professional users only.

1.3 Details of the supplier of the safety data sheet

Company	:	Roche Diagnostics Limited Charles Avenue Burgess Hill RH15 9RY West Sussex
E-mail address	:	-
Telephone	:	+44 1444 256000
Telefax	:	+44 1444 256239
Responsible Department	:	-
In case of emergencies: (Roche Diagnostics Ltd.)	:	Health, Safety & Environment - Product Safety / Vigilance -
		+44 1444 256500 or +44 7802 260498 +44 1444 256561 or +44 7710 391653
Toxicology 24Hr help-line:	:	NPIS: +44 844 892 0111
Health Advice 24Hr help-line:	:	NHS Direct: +44 845 4647 NHS 24: +44 8454 242424

2. Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Flammable liquids, Category 3	H226: Flammable liquid and vapour.
Eye irritation, Category 2	H319: Causes serious eye irritation.
Skin sensitisation, Category 1	H317: May cause an allergic skin reaction.
Carcinogenicity, Category 1A	H350: May cause cancer.
Chronic aquatic toxicity, Category 3	H412: Harmful to aquatic life with long lasting effects.

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

Carcinogenic Category 1	R45: May cause cancer.
Sensitising	R43: May cause sensitisation by skin contact.
Dangerous for the environment	R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
Flammable	R10: Flammable.

2.2 Label elements

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Labelling (REGULATION (EC) No 1272/2008)

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H226
H317
H319
H350
H412

Flammable liquid and vapour.
May cause an allergic skin reaction.
Causes serious eye irritation.
May cause cancer.
Harmful to aquatic life with long lasting effects.

Precautionary statements

:

Prevention:

P201
P202

Obtain special instructions before use.
Do not handle until all safety precautions have been read and understood.

P210

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233
P240

Keep container tightly closed.
Ground/bond container and receiving equipment.

P241

Use explosion-proof electrical/ ventilating/ lighting/ equipment.

P242
P243

Use only non-sparking tools.

Take precautionary measures against static discharge.

P261

Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.

P264
P272

Wash skin thoroughly after handling.

Contaminated work clothing should not be allowed out of the workplace.

P273
P280

Avoid release to the environment.

Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353

IF ON SKIN (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ 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.

P308 + P313

IF exposed or concerned: Get medical advice/ attention.

P333 + P313

If skin irritation or rash occurs: Get medical advice/ attention.

P337 + P313

If eye irritation persists: Get medical advice/ attention.

P363

Wash contaminated clothing before reuse.



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P370 + P378

In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

Storage:

P403 + P235

Store in a well-ventilated place. Keep cool.

P405

Store locked up.

Disposal:

P501

Dispose of contents/ container to an approved waste disposal plant.

Additional Labelling:

Restricted to professional users.

EUH210 Safety data sheet available on request.

EUH208 Contains: trisodium 5-hydroxy-1-(4-sulphophenyl)-4-(4-sulphophenylazo)pyrazole-3-carboxylate May produce an allergic reaction.

2.3 Other hazards

No information available.

3. Composition/information on ingredients**3.2 Mixtures***GRAM CRYSTAL VIOLET***Classification (REGULATION (EC) No 1272/2008)**

Flammable liquids, Category 3

H226: Flammable liquid and vapour.

Eye irritation, Category 2

H319: Causes serious eye irritation.

Carcinogenicity, Category 1B

H350: May cause cancer.

Chronic aquatic toxicity, Category 3

H412: Harmful to aquatic life with long lasting effects.

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

Flammable

R10: Flammable.

Carcinogenic Category 2

R45: May cause cancer.

Dangerous for the environment

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
ethanol	64-17-5 200-578-6	F; R11	Flam. Liq. 2; H225	>= 10 - < 20
[4-[4,4'-bis(dimethylamino)benzhydrylidene]cyclohexa-	548-62-9 208-953-6	Carc.Cat.2; R45 Xn; R22 Xi; R41	Acute Tox. 4; H302 Eye Dam. 1; H318 Carc. 1B; H350	>= 0.25 - < 2.5



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2,5-dien-1-ylidene]dimethylammonium chloride		N; R50-R53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	
methanol	67-56-1 200-659-6	F; R11 T; R23/24/25- R39/23/24/25	Flam. Liq. 2; H225 Acute Tox. 3; H301 Acute Tox. 3; H331 Acute Tox. 3; H311 STOT SE 1; H370	< 1

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

GRAM IODINE

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
potassium iodide	7681-11-0 231-659-4	Xn; Xn; R20/21/22	Acute Tox. 4; H302 Acute Tox. 4; H332 Acute Tox. 4; H312	< 10

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

GRAM BASIC FUCHSIN

Classification (REGULATION (EC) No 1272/2008)

Carcinogenicity, Category 1A

H350: May cause cancer.

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

Carcinogenic Category 1

R45: May cause cancer.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
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(4-(4-aminophenyl)(4- iminocyclohexa-2,5- dienylidene)methyl)-2- methylaniline hydrochloride	632-99-5 211-189-6	T; R45	Carc. 1A; H350	>= 0.1 - < 10
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For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

GRAM GALLEGO

Classification (REGULATION (EC) No 1272/2008)

Skin sensitisation, Category 1

H317: May cause an allergic skin reaction.

Carcinogenicity, Category 2

H351: Suspected of causing cancer.

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

Carcinogenic Category 3

R40: Limited evidence of a carcinogenic effect.

Sensitising

R43: May cause sensitisation by skin contact.

Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
acetic acid	64-19-7 200-580-7	R10 C; R35	Flam. Liq. 3; H226 Skin Corr. 1A; H314	>= 1 - < 5
formaldehyde	50-00-0 200-001-8	Carc.Cat.3; R40 T; R23/24/25 C; R34 R43	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1B; H314 Skin Sens. 1; H317 Carc. 2; H351	>= 1 - < 3

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

GRAM TARTRAZINE

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

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

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*GRAM FAST GREEN***Classification (REGULATION (EC) No 1272/2008)**

Not a hazardous substance or mixture.

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

Not a hazardous substance or mixture.

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.
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 : If skin irritation persists, call a physician.
If on skin, rinse well with water.
If on clothes, remove clothes.
- In case of eye contact : Immediately flush eye(s) with plenty of water.
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 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.

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5. Firefighting measures**5.1 Extinguishing media**

Suitable extinguishing media : Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical

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.
For safety reasons in case of fire, cans should be stored separately in closed containments.
Use a water spray to cool fully closed containers.

6. Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Use personal protective equipment.
Remove all sources of ignition.
Evacuate personnel to safe areas.
Refer to protective measures listed in sections 7 and 8.
Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

6.2 Environmental precautions

Environmental precautions : Prevent product from entering drains.
Prevent further leakage or spillage if safe to do so.
If the product contaminates rivers and lakes or drains inform respective authorities.

6.3 Methods and materials for containment and cleaning up

Methods for cleaning up : Contain spillage, and then collect with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and place in container for disposal according to local / national regulations (see section 13).

6.4 Reference to other sections

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

7. Handling and storage**7.1 Precautions for safe handling**

- Advice on safe handling : Avoid formation of aerosol.
Do not breathe vapours/dust.
Avoid exposure - obtain special instructions before use.
Avoid contact with skin and eyes.
For personal protection see section 8.
Smoking, eating and drinking should be prohibited in the application area.
Take precautionary measures against static discharges.
Provide sufficient air exchange and/or exhaust in work rooms.
Open drum carefully as content may be under pressure.
Dispose of rinse water in accordance with local and national regulations.
Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being used.
- Advice on protection against fire and explosion : Do not spray on a naked flame or any incandescent material.
Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapours).
Keep away from open flames, hot surfaces and sources of ignition.

7.2 Conditions for safe storage, including any incompatibilities

- Requirements for storage areas and containers : No smoking.
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**

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*GRAM CRYSTAL VIOLET***Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Source
ethanol	64-17-5	TWA	1,000 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	1,000 ppm 1,900 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	1,000 ppm 1,900 mg/m3	USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
		TWA	1,000 ppm 1,900 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000

*GRAM IODINE***Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Source
potassium iodide	7681-11-0	TWA	0.01 mg/m3	USA. ACGIH Threshold Limit Values (TLV)

GRAM BASIC FUCHSIN

Contains no substances with occupational exposure limit values.

*GRAM GALLEGO***Components with workplace control parameters**

Components	CAS-No.	Value	Control parameters	Source
acetic acid	64-19-7	TWA	10 ppm	USA. ACGIH Threshold Limit Values (TLV)
		STEL	15 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	10 ppm 25 mg/m3	USA. NIOSH Recommended Exposure Limits
		ST	15 ppm 37 mg/m3	USA. NIOSH Recommended Exposure Limits
		TWA	10 ppm 25 mg/m3	USA. Occupational Exposure Limits (OSHA) -



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				Table Z-1 Limits for Air Contaminants
		TWA	10 ppm 25 mg/m3	USA. OSHA - TABLE Z-1 Limits for Air Contaminants - 1910.1000
formaldehyde	50-00-0	C	0.3 ppm	USA. ACGIH Threshold Limit Values (TLV)
		TWA	0.016 ppm	USA. NIOSH Recommended Exposure Limits
		C	0.1 ppm	USA. NIOSH Recommended Exposure Limits
		TWA	0.016 ppm	USA. NIOSH Recommended Exposure Limits
		C		USA. NIOSH Recommended Exposure Limits
		PEL	0.75 ppm	OSHA Specifically Regulated Chemicals/Carcinogens
		STEL	2 ppm	OSHA Specifically Regulated Chemicals/Carcinogens

GRAM TARTRAZINE

Contains no substances with occupational exposure limit values.

GRAM FAST GREEN

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 : Protective gloves

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 application specified by us.

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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.
- Respiratory protection : In the case of vapour formation use a respirator with an approved filter.
- 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***GRAM CRYSTAL VIOLET*

- Appearance : liquid
- Odour : No information available.
- pH : 5.2
- Melting point/range : no data available
- Boiling point/boiling range : no data available
- Flash point : ca. 36 °C
- Lower explosion limit : no data available
- Upper explosion limit : no data available
- Vapour pressure : no data available
- Density : 0.974 g/cm³
- Water solubility : completely miscible
- Partition coefficient: n-octanol/water : no data available
- Ignition temperature : no data available
- Thermal decomposition : no data available
- Viscosity, dynamic : no data available

GRAM IODINE

- Appearance : liquid
- Colour : no data available

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Odour	: No information available.
Odour Threshold	: no data available
pH	: no data available
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
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	: 1.0238 g/cm ³
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available

GRAM BASIC FUCHSIN

Appearance	: liquid
Colour	: no data available
Odour	: No information available.
pH	: no data available
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
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	: 0.9888 g/cm ³
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available

GRAM GALLEGO

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Appearance	: liquid
Colour	: no data available
Odour	: No information available.
pH	: no data available
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
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	: 0.9875 g/cm3
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available

GRAM TARTRAZINE

Appearance	: liquid
Colour	: no data available
Odour	: No information available.
pH	: 3.5
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
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	: 0.9860 g/cm3
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available

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Viscosity, dynamic	: no data available
<i>GRAM FAST GREEN</i>	
Appearance	: liquid
Colour	: no data available
Odour	: No information available.
pH	: no data available
Melting point/range	: no data available
Boiling point/boiling range	: no data available
Flash point	: does not flash
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	: 0.9890 g/cm3
Water solubility	: completely miscible
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available
Thermal decomposition	: no data available
Viscosity, dynamic	: no data available

9.2 Other information

<i>GRAM CRYSTAL VIOLET</i>	
Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available
<i>GRAM IODINE</i>	
Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available
<i>GRAM BASIC FUCHSIN</i>	
Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available
<i>GRAM GALLEGO</i>	
Conductivity	: no data available
Oxidising potential	: no data available
Surface tension	: no data available
<i>GRAM TARTRAZINE</i>	

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Conductivity : no data available

Oxidising potential : no data available

Surface tension : no data available

GRAM FAST GREEN

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

: Vapours may form explosive mixture with air.

10.4 Conditions to avoid

Conditions to avoid : no data available

Heat, flames and sparks.

10.5 Incompatible materials

Materials to avoid : no data available

10.6 Hazardous decomposition products

Hazardous decomposition products : no data available

11. Toxicological information**11.1 Information on toxicological effects**

Further information : Solvents may degrease the skin.

GRAM CRYSTAL VIOLET

No ingredients are hazardous according to OSHA criteria.

GRAM IODINE

No ingredients are hazardous according to OSHA criteria.

GRAM BASIC FUCHSIN

No ingredients are hazardous according to OSHA criteria.

GRAM GALLEGO

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No ingredients are hazardous according to OSHA criteria.

GRAM TARTRAZINE

No ingredients are hazardous according to OSHA criteria.

GRAM FAST GREEN

No ingredients are hazardous according to OSHA criteria.

12. Ecological information**12.1 Toxicity**

GRAM CRYSTAL VIOLET

No ingredients are hazardous according to OSHA criteria.

GRAM IODINE

No ingredients are hazardous according to OSHA criteria.

GRAM BASIC FUCHSIN

No ingredients are hazardous according to OSHA criteria.

GRAM GALLEGO

No ingredients are hazardous according to OSHA criteria.

GRAM TARTRAZINE

No ingredients are hazardous according to OSHA criteria.

GRAM FAST GREEN

No ingredients are hazardous according to OSHA criteria.

12.2 Persistence and degradability

GRAM CRYSTAL VIOLET

No ingredients are hazardous according to OSHA criteria.

GRAM IODINE

No ingredients are hazardous according to OSHA criteria.

GRAM BASIC FUCHSIN

No ingredients are hazardous according to OSHA criteria.

GRAM GALLEGO

No ingredients are hazardous according to OSHA criteria.

GRAM TARTRAZINE

No ingredients are hazardous according to OSHA criteria.

GRAM FAST GREEN

No ingredients are hazardous according to OSHA criteria.

12.3 Bioaccumulative potential

GRAM CRYSTAL VIOLET

No ingredients are hazardous according to OSHA criteria.

GRAM IODINE

No ingredients are hazardous according to OSHA criteria.

GRAM BASIC FUCHSIN

No ingredients are hazardous according to OSHA criteria.

GRAM GALLEGO

No ingredients are hazardous according to OSHA criteria.

GRAM TARTRAZINE

No ingredients are hazardous according to OSHA criteria.

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No ingredients are hazardous according to OSHA criteria.

12.4 Mobility in soil*GRAM CRYSTAL VIOLET*

No ingredients are hazardous according to OSHA criteria.

GRAM IODINE

No ingredients are hazardous according to OSHA criteria.

GRAM BASIC FUCHSIN

No ingredients are hazardous according to OSHA criteria.

GRAM GALLEGO

No ingredients are hazardous according to OSHA criteria.

GRAM TARTRAZINE

No ingredients are hazardous according to OSHA criteria.

GRAM FAST GREEN

No ingredients are hazardous according to OSHA criteria.

12.5 Results of PBT and vPvB assessment*GRAM CRYSTAL VIOLET*

No ingredients are hazardous according to OSHA criteria.

GRAM IODINE

No ingredients are hazardous according to OSHA criteria.

GRAM BASIC FUCHSIN

No ingredients are hazardous according to OSHA criteria.

GRAM GALLEGO

No ingredients are hazardous according to OSHA criteria.

GRAM TARTRAZINE

No ingredients are hazardous according to OSHA criteria.

GRAM FAST GREEN

No ingredients are hazardous according to OSHA criteria.

12.6 Other adverse effects**Product:**

Additional ecological
information

: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal., Harmful to aquatic life., Harmful to aquatic life with long lasting effects.

GRAM CRYSTAL VIOLET

No ingredients are hazardous according to OSHA criteria.

GRAM IODINE

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No ingredients are hazardous according to OSHA criteria.

GRAM BASIC FUCHSIN

No ingredients are hazardous according to OSHA criteria.

GRAM GALLEGO

No ingredients are hazardous according to OSHA criteria.

GRAM TARTRAZINE

No ingredients are hazardous according to OSHA criteria.

GRAM FAST GREEN

No ingredients are hazardous according to OSHA criteria.

13. Disposal considerations**13.1 Waste treatment methods**

- | | | |
|------------------------|---|--|
| Product | : | The product should not be allowed to enter drains, water courses or the soil.
Do not contaminate ponds, waterways or ditches with chemical or used container.
Send to a licensed waste management company. |
| 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.
Do not burn, or use a cutting torch on, the empty drum. |

14. Transport information**14.1 UN number****DOT**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.2 Proper shipping name**DOT**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.3 Transport hazard class

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DOT

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.4 Packing group**DOT**

Not dangerous goods

IMDG

Not dangerous goods

IATA_C

Not dangerous goods

IATA_P

Not dangerous goods

14.5 Environmental hazards**DOT**

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

14.6 Special precautions for user

Not dangerous goods in the meaning of ADR/RID, ADN, IMDG-Code, ICAO/IATA-DGR

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****GRAM CRYSTAL VIOLET
REGULATORY INFORMATION****OSHA Hazards**: Flammable liquid
Toxic by ingestion
Carcinogen**WHMIS Classification**: B2 Flammable liquid
Flammable liquid
D1B Toxic Material Causing Immediate and Serious Toxic Effects
Toxic by ingestion
D2A Very Toxic Material Causing Other Toxic Effects
Carcinogen

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.

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CERCLA Reportable Quantity

Components : methanol 5000 lbs

SARA 302 Reportable Quantity

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

SARA 311/312 Hazards : Fire Hazard
Acute Health Hazard
Chronic Health Hazard

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).

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

methanol 0.875 %

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM Intermediate or Final VOC's (40 CFR 60.489):

ethanol 15.75 %

methanol 0.875 %

propan-2-ol 0.875 %

Clean Water Act

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

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

salts of oxalic acid

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US State Regulations

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.

**GRAM IODINE
REGULATORY INFORMATION**

OSHA Hazards : Harmful by ingestion.
Mild skin irritant

WHMIS Classification : D2B Toxic Material Causing Other Toxic Effects
Mild skin irritant

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**SARA 302 Reportable Quantity**

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

Acute Health Hazard

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).

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

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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

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.

**GRAM BASIC FUCHSIN
REGULATORY INFORMATION**

OSHA Hazards : Carcinogen

WHMIS Classification : D2A Very Toxic Material Causing Other Toxic Effects
Carcinogen

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**SARA 302 Reportable Quantity**

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

Chronic Health Hazard

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).

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).

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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**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.

**GRAM GALLEGO
REGULATORY INFORMATION****OSHA Hazards**

: Highly toxic by inhalation
Toxic by ingestion
Toxic by skin absorption
Skin sensitiser
Corrosive to skin
Carcinogen

WHMIS Classification

: D1A Very Toxic Material Causing Immediate and Serious Toxic Effects
Highly toxic by inhalation
D1B Toxic Material Causing Immediate and Serious Toxic Effects
Toxic by ingestion
D2A Very Toxic Material Causing Other Toxic Effects
Toxic by skin absorption
D2B Toxic Material Causing Other Toxic Effects
Carcinogen
E Corrosive Material
Skin sensitiser

Corrosive to skin

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 : formaldehyde 100 lbs

SARA 302 Reportable Quantity

Product : Calculated RQ exceeds reasonably attainable upper limit.

Components : formaldehyde
Acute Health Hazard

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Chronic Health Hazard

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

SARA 302 : The following components are subject to reporting levels established by SARA Title III, Section 302:

Components : formaldehyde

SARA 304 : Calculated RQ exceeds reasonably attainable upper limit.

Components : formaldehyde

Components : formaldehyde

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).

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

formaldehyde 1.2 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

formaldehyde 1.2 %

The following chemical(s) are listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F):

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

acetic acid 1.5 %

formaldehyde 1.2 %

Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

acetic acid

formaldehyde

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

acetic acid

formaldehyde

US State Regulations

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.

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**GRAM TARTRAZINE
REGULATORY INFORMATION****OSHA Hazards** : No OSHA Hazards**WHMIS Classification** : D2A Very Toxic Material Causing Other Toxic Effects
Respiratory sensitiser

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** : acetic acid 5000 lbs**SARA 302 Reportable Quantity****Product** : This material does not contain any components with a SARA 302 RQ.

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).

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):acetic acid 0.25 %**Clean Water Act**

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

acetic acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

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acetic acid

US State Regulations

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.

**GRAM FAST GREEN
REGULATORY INFORMATION**

OSHA Hazards : No OSHA Hazards

WHMIS Classification : Not Rated

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 : acetic acid 5000 lbs

SARA 302 Reportable Quantity

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

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).

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).

The following chemical(s) are listed under the U.S. Clean Air Act Section 111 SOCM I Intermediate or Final VOC's (40 CFR 60.489):

acetic acid 0.025 %

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Clean Water Act

The following Hazardous Substances are listed under the U.S. CleanWater Act, Section 311, Table 116.4A:

acetic acid

The following Hazardous Chemicals are listed under the U.S. CleanWater Act, Section 311, Table 117.3:

acetic acid

US State Regulations**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.