

1. IDENTIFICATION OF THE SUBSTANCE / PREPARATION AND COMPANY

PRODUCT NAME SCHIFF'S REAGENT
Feulgen Reagent, Fuchsin sulfurous acid

PRODUCT CODE 61028x

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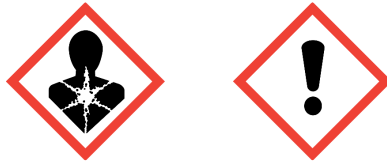
2. HAZARDS IDENTIFICATION

CLASSIFICATION ACCORDING TO REGULATION (EC) NO 1272/2008 [EU-GHS/CLP]

Single Target Organ Toxicity – Single Exposure H335
Carcinogenicity (Category 1B) H350

LABELLING ACCORDING TO REGULATION (EC) NO 1272/2008 [EU-GHS/CLP]

DANGER



Hazard statement(s)

H335 May cause respiratory irritation
H350 May cause cancer

Precautionary statement(s)

P201 Obtain special instructions before use
P202 Do not handle until all safety precautions have been read and understood
P261 Avoid breathing fumes / vapours
P271 Use only outdoors or in a well-ventilated area
P280 Wear protective gloves/protective clothing/eye protection/face protection
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing
P312 Call a POISON CENTER or doctor/physician if you feel unwell
P308+P313 IF exposed or concerned: Get medical advice/attention

3. COMPOSITION / INFORMATION ON INGREDIENTS

Name	EC #	CAS #	Content	Classification
PARAROSANILINE HYDROCHLORIDE (Basic Red 9)	209-321-2	569-61-9	0.1-1%	Carc. 1B H350
4,4'-(4-iminocyclohexa-2,5-dienylidene)methylene)dianiline hydrochloride				
SULPHUR DIOXIDE	231-195-2	7446-09-5	0-1%	Skin Corr 1B, Acute Tox. 3, STOT SE H314 H331 EUH071
SULFUROUS ACID	231-973-1	7782-99-2	0-1%	Skin Corr. 1B, Eye Dam. 1, Acute Tox. 4 H314 H318 H332
HYDROCHLORIC ACID	231-595-7	7647-01-0	0-1%	Skin Corr. 1B; STOT SE 3 H314 H335

4. FIRST-AID MEASURES

INHALATION

Move the exposed person to fresh air. Perform artificial respiration if breathing has stopped. Consult a physician.

INGESTION

Rinse mouth with water. Never make an unconscious person vomit or drink fluids. Consult a physician if symptoms occur.

SKIN CONTACT

Remove contaminated clothes and rinse skin thoroughly with water.

EYE CONTACT

Make sure to remove any contact lenses from the eyes before rinsing. Promptly wash eyes with plenty of water while lifting the eyelids. Consult a physician if symptoms persist.

5. FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA

Use: Water spray, Alcohol-resistant foam, Dry chemicals, or Carbon dioxide

PROTECTIVE MEASURES IN FIRE

Self-contained breathing apparatus if necessary.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS

Wear protective clothing as described in Section 8 of this safety data sheet. Evacuate personnel to a safe area. Avoid aerosol formation. Avoid breathing aerosols. Ensure adequate ventilation.

ENVIRONMENTAL PRECAUTIONS

Do not allow spillage to enter watercourses, drains or sewers. Stop further spillage if possible without risk.

SPILL CLEAN-UP METHODS

Flush area with water – do not allow water to enter drains. Absorb with disposable towels and hold for hazardous disposal – see section 13.

UNUSUAL RELEASE HAZARDS

Emanates sulphur dioxide gas.

7. HANDLING & STORAGE

USAGE PRECAUTIONS

Avoid spilling, skin and eye contact. Avoid aerosol formation. Provide adequate exhaust function where aerosol is likely.

STORAGE PRECAUTIONS

Store in tightly closed original container in a cool, dry well-ventilated place.

STORAGE CLASS

Chemical storage.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

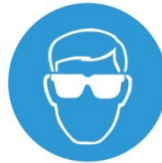
Name	Std	8h TWA		STEL	
HYDROCHLORIC ACID	WEL	1 ppm	2 mg/m ³	5 ppm	8 mg/m ³
SULPHUROUS ACID	WEL	<i>No value specified</i>			
SULPHUR DIOXIDE	WEL	<i>No value specified</i>			

WEL – Workplace Exposure Limit; 8h TWA – 8-hour Time-Weighted Average; STEL – Short-Term EL.

ENGINEERING MEASURES

Provide adequate general and local exhaust ventilation.

PROTECTIVE EQUIPMENT



HAND PROTECTION

Use protective gloves. The most suitable glove should be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

EYE PROTECTION

Wear approved, tight-fitting safety glasses where splashing is probable.

RESPIRATORY EQUIPMENT

Self-contained breathing apparatus where vapours / fumes or aerosols are likely.

OTHER PROTECTION

Provide eyewash station.

HYGIENE MEASURES

DO NOT SMOKE IN WORK AREA! Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Wash promptly with soap & water if skin becomes contaminated.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE	Colourless Liquid (degrading to Purple Liquid)
ODOUR	Sulphur dioxide
SOLUBILITY / MISCIBLE WITH	Water; Ethanol
BOILING POINT	~100 °C
SPECIFIC GRAVITY	~ 1.00

10. STABILITY AND REACTIVITY

STABILITY

Stable under normal temperature conditions and recommended use.

INCOMPATIBLE MATERIALS

Strong oxidizers.

11. TOXICOLOGICAL INFORMATION

TOXIC DOSE

Basic Red 9 - LD 50 Oral, Mouse 5000 mg/kg

CARCINOGENICITY

Possible human carcinogen

IARC: 2B - Group 2B: Possibly carcinogenic to humans (C.I. Basic red 9)

INHALATION

May be harmful if inhaled. May cause respiratory tract irritation.

INGESTION

May be harmful if swallowed.

SKIN CONTACT

May be harmful if absorbed through skin. May cause skin irritation.

EYE CONTACT

May cause eye irritation.

12. ECOLOGICAL INFORMATION

ECOTOXICITY

None recorded.

13. DISPOSAL CONSIDERATIONS

DISPOSAL METHODS

Dispose of waste and residues in accordance with local authority requirements.

14. TRANSPORT INFORMATION

	UN #	Class	Packing	Proper shipping name
<u>RID / ADR</u>	<i>Not regarded as hazardous for transport</i>			
<u>IATA</u>				
<u>IMDG</u>				

15. REGULATORY INFORMATION

STATUTORY INSTRUMENTS

This MSDS complies with regulation (EC) no. 1907/2006.

Workplace Exposure Limits EH40/2011.

16. OTHER INFORMATION

GENERAL INFORMATION

This safety data sheet covers all codes for this product.

REVISION INFORMATION

Revision No.	08
Revision Date	09/2015
Comments	CHIP regulations removed
Replaces Document Generated	10/2014

HAZARD STATEMENTS IN FULL

H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
H335	May cause respiratory irritation
H350	May cause cancer
EUH071	Corrosive to respiratory tract