

SAFETY DATA SHEET



Product: *EasyScreen™* Sample Processing Kit

Issue date: 29-September-2014

Version: 2.0

Revision Date: 27-March-2016

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Elution Solution	Not Applicable
EPC Reagent	Not Applicable

Human health hazards

Component Name	Hazards
Reagent 1	harmful by inhalation, in contact with skin and if swallowed
Reagent 2	harmful by inhalation, in contact with skin and if swallowed
Lysis Buffer	Harmful by inhalation, in contact with skin and if swallowed. Risk of serious damage to eyes. Contact with acids liberates very toxic gas.
Reagent 4	Not Applicable
Reagent 5	Not Applicable
Reagent 6	May cause sensitisation by skin contact.
Reagent 7	Not Applicable

Environmental hazards

Component Name	Hazards
Reagent 1	Not Applicable
Reagent 2	Not Applicable
Reagent 3	Not Applicable
Reagent 4	Not Applicable
Reagent 5	Not Applicable
Reagent 6	Not Applicable
Reagent 7	Not Applicable

See section 11 for more detailed information on health effects and symptoms.

3. Composition/information on ingredients

Component Name	CAS	Classification
Reagent 1 [1]	1310-73-2	Xi R 22/36/37/38
Reagent 2 [1] [2]	7681-57-4	Xi R 22/36/37/38
Reagent 3 [1]	593-84-0	Xn; R20/21/22 R32 R52/53
	9036-19-5	Xn; R22 Xi; R41

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Reagent 4	[1]	Not Applicable	Not Applicable
Reagent 5	[1] [2]	593-84-0 64-17-5	Xn; R20/21/22 R32 R52/53 F; R11
Reagent 6	[1]	55965-84-9	T; R23/24/25 C; R34 R43 N; R50/53
Reagent 7	[1]	Not Applicable	Not Applicable

There are no additional ingredients present, which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

See section 16 for the full text of the R-phrases declared above

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

Occupational exposure limits, if available, are listed in section 8.

4. First-aid measures

First-aid measures

Inhalation

: Move exposed person to fresh air. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. Keep person warm and at rest. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.

Ingestion

Get medical attention immediately. Wash out mouth with water. Remove dentures if any. Move exposed person to fresh air. Keep person warm and at rest. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Skin contact

: Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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Eye contact

: Get medical attention immediately. Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician.

See section 11 for more detailed information on health effects and symptoms.

5. Fire Fighting Measures

Extinguishing media

Suitable : Use dry chemical, CO₂, water spray (fog) or foam.

Not suitable : Do not use water jet.

Special exposure hazards: Highly flammable liquid. In a fire or if heated, a pressure increase will occur and the container may burst, with the risk of a subsequent explosion. Runoff to sewer may create fire or explosion hazard.

Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Hazardous combustion products Decomposition products may include the following materials: carbon dioxide
carbon monoxide
nitrogen oxides

sulfur oxides metal oxide/oxides

Special protective equipment for fire-fighters: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

6. Accidental Release Measures

Personal precautions: No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (see section 8).

Environmental precautions: Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Small spill: Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble. Alternatively, or if water-insoluble, absorb with an inert dry material and place in an appropriate waste disposal container. Use spark-proof tools and explosion-proof equipment. Dispose of via a licensed waste disposal contractor.

Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

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7. Handling and storage

Handling: Put on appropriate personal protective equipment (see section 8). Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Do not get in eyes or on skin or clothing. Do not ingest. Avoid breathing vapour or mist. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Do not enter storage areas and confined spaces unless adequately ventilated. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Store and use away from heat, sparks, open flame or any other ignition source. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Use non-sparking tools. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by earthing and bonding containers and equipment before transferring material. Keep away from acids. Empty containers retain product residue and can be hazardous. Do not reuse container.

Storage: Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Eliminate all ignition sources. Separate from acids. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Packaging Materials Recommended: Use original container.

8. Exposure controls/personal protection

Component Name	Occupational Exposure Limits
Reagent 1	TWA 2 mg/m ³
Reagent 2	TWA 2 mg/m ³
Reagent 3	Not Applicable
Reagent 4	Not Applicable
Reagent 5	EH40/2005 WELs (United Kingdom (UK), 1/2012). TWA: 1920 mg/m ³ 8 hour(s). TWA: 1000 ppm 8 hours.
Reagent 6	Not Applicable
Reagent 7	Not Applicable

Recommended monitoring procedures: If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Exposure controls

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Occupational exposure controls: Use only with adequate ventilation. Engineering controls may be required to control the primary or secondary risks associated with this product. Use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapour or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Hygiene measures: Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Respiratory protection: Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Hand protection: Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

Eye protection: Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.

Skin protection: Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Environmental exposure controls: Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9. Physical and chemical properties

General information Appearance

Component Name	Colour	pH	Physical State	Boiling Point	Melting Point	Flash Point	Explosion Limits
Reagent 1	Colourless	>12	Liquid	>100	N/A	N/A	N/A
Reagent 2	White	N/A	Solid	N/A	N/A	N/A	N/A
Reagent 3	Colourless	4.1	Liquid	N/A	N/A	N/A	N/A
Reagent 4	Black	9.5	Liquid	N/A	N/A	N/A	N/A
Reagent 5	Colourless	5	Liquid	N/A	N/A	N/A	N/A
Reagent 6	Colourless	4	Liquid	N/A	N/A	N/A	N/A
Reagent 7	Colourless	>12	Liquid	>100	N/A	N/A	N/A

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Component Name	Vapour Pressure	Relative Density	Water Partition Coefficient	Viscosity	Evaporation Rate	Auto Ignition Temp
Reagent 1	N/A	>1	N/A	N/A	N/A	N/A
Reagent 2	N/A	N/A	N/A	N/A	N/A	N/A
Reagent 3	N/A	>1	N/A	N/A	N/A	N/A
Reagent 4	N/A	>1	N/A	N/A	N/A	N/A
Reagent 5	N/A	<1	N/A	N/A	N/A	N/A
Reagent 6	N/A	0.9993	N/A	N/A	N/A	N/A
Reagent 7	N/A	>1	N/A	N/A	N/A	N/A

N/A Not Available

Stability: The product is stable.

Conditions to avoid: Avoid all possible sources of ignition (spark or flame). Do not pressurise, cut, weld, braze, solder, drill, grind or expose containers to heat or sources of ignition

Materials to avoid: Highly reactive or incompatible with the following materials:
Acids, and oxidizing materials

Hazardous decomposition products: Contact with acids liberates very toxic gas

8. Toxicological information

Potential acute health effects

Inhalation: Harmful by inhalation. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

Ingestion: Harmful if swallowed.

Skin contact Harmful in contact with skin. May cause skin irritation

Eye contact Severely irritating to eyes. Risk of serious damage to eyes.

Acute toxicity

Component Name	Result	Species	Dose	Exposure
Reagent 1	Colourless	>12	Liquid	-

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Reagent 2	LD50 oral	Rat	1540 mg/kg	-
Reagent 3	LD50	Rat	4 mL/kg	-
Reagent 5	LD50 oral	Rat	7 g/kg	-
Reagent 6	LD50 oral	Rat	53 mg/kg	-

Potential chronic and Reproductive health effects

Chronic toxicity Not available.

Carcinogenicity Not available.

Mutagenicity Not available.

Teratogenicity Not available.

Inhalation over-exposure No specific data

Ingestion over-exposure No specific data

Skin over-exposure Adverse symptoms may include the following: pain or irritation watering redness

Other Adverse Effects Not available

12. Ecological information

Environmental effects: No known significant effects or critical hazards.

Aquatic ecotoxicity

Component Name	Result	Species	Dose	Exposure
Reagent 2	LC50 96 hr	fish	150-220mg/L	-
Reagent 3	LC50 96 hr	fish	7200 µg/L	-
Reagent 5	LC50 96 hr	fish	13 ml/L	-

13. Disposal consideration

Methods of disposal: The generation of waste should be avoided or minimised wherever possible. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe way. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

Hazardous waste: The classification of the product may meet the criteria for a hazardous waste.

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European waste catalogue (EWC): Hazardous waste
18 01 06* chemicals consisting of or containing dangerous substances Non-hazardous waste

14. Transport information

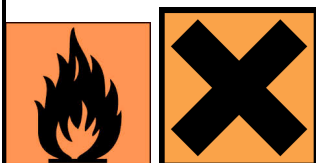
International transport regulations

Component Name	UN number	Shipping Name	Class	PG	Label	Flash Point	Explosion Limits
Reagent 1	1824	-	8	III	-	N/A	N/A
Reagent 2	2693	-	8	III	-	N/A	N/A
Reagent 3	NR	-	-	-	-	N/A	N/A
Reagent 4	NR	-	-	-	-	N/A	N/A
Reagent 5	1993	Flammable liquid	3	I	-	N/A	N/A
Reagent 6	NR	-	-	-	-	N/A	N/A
Reagent 7	NR	-	-	-	-	N/A	N/A

EU regulations

Classification and labeling have been determined according to EU Directives 67/548/EEC and 1999/45/EC (including amendments) and take into account the intended product use.

Hazard symbol or symbols :



Risk phrases: R11- Highly flammable.
R20/21/22- Harmful by inhalation, in contact with skin and if swallowed.
R41- Risk of serious damage to eyes.
R32- Contact with acids liberates very toxic gas.

Safety phrases: S16- Keep away from sources of ignition - No smoking.
S23- Do not breathe [***].
S24/25- Avoid contact with skin and eyes.
S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S28- After contact with skin, wash immediately with plenty of water.

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S33- Take precautionary measures against static discharges.

S51- Use only in well-ventilated areas.

Contains

Reagent 3: salts of thiocyanic acid

Reagent 5: salts of thiocyanic acid

16. Other information

Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.