

Material safety data sheet.

1. Identification of Substance/Preparation and Company.

Company	Helena BioSciences, Queensway South, Team Valley Trading Estate, Gateshead, Tyne and Wear, NE11 0SD		
Product name	SAS-MX IFE-1 Gel Kit		
REF	100301		
Application of substance/preparation	For <i>In Vitro</i> Diagnostic use.		
Package contents	Component Name	Sub-assembly No.	Contents
1 SAS-MX IFE - 1 Gel Kit	IFE plate	30075SA	10
	Tris/Barbital Buffer	30675SA	1
	Liquid Acid Blue	32084SA	1
	Destain	31772SA	1

2. Hazards Identification.

Component	Hazard classification	Hazard/ EUH statements
IFE plate 30075SA	<u>Note:</u>	N/A
Tris/Barbital Buffer 30675SA	GHS-07	H302, EUH032, H412
Liquid Acid Blue 32084SA	GHS-05, 07	H315, 319, 335, 318
Destain 31772SA	GHS-05, 07	H315, 319, 335, 318

Note: These products present no significant physical or chemical hazard.

3. Composition of components.

Component	Ingredients	EINECS	CAS No.	Hazard classification	Hazard/ EUH statements	Concentration (% by weight)
IFE plate 30075SA	Sodium Azide	247-852-1	26628-22-8	Acute toxicity (category 3), Chronic aquatic toxicity (category 1).	H301, EUH032, H410	Conc < 0.1%
	Thiomersal	200-210-4	54-64-8	Acute toxicity (category 3), STOT, repeated (category 2), Chronic aquatic toxicity (category 1).	H301, 311, 331, 373, 410	Conc < 0.1%
Tris/Barbital Buffer 30675SA	Sodium Azide	247-852-1	26628-22-8	Acute toxicity (category 3), Chronic aquatic toxicity (category 1).	H301, EUH032, H410	Conc < 1%
Liquid Acid Blue 32084SA	Citric acid	201-069-1	77-92-9	Skin corrosion/ irritation (category 2), Serious eye damage/ eye irritation (category 1& 2), STOT, single exposure (category 3).	H315, 319, 335, 318	Conc ≥ 20%
Destain 31772SA	Citric acid	201-069-1	77-92-9	Skin corrosion/ irritation (category 2), Serious eye damage/ eye irritation	H315, 319, 335, 318	Conc ≥ 20%

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				(category 1 & 2), STOT, single exposure (category 3).		
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4. First-aid Measures.

Component	IFE plates 30075SA
After Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
After Skin contact	After skin contact, wash immediately with plenty of water.
After eye contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Give lots of water to drink.
Component	Tris/Barbital Buffer 30675SA
After Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest.
After Skin contact	After skin contact, wash immediately with plenty of water.
After eye contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Give lots of water to drink.
Component	Liquid Acid Blue 32084SA/Destain 31772SA
After Inhalation	In case of accident by inhalation: remove casualty to fresh air and keep at rest. If not breathing give artificial respiration. If breathing is difficult give oxygen.
After Skin contact	After skin contact, wash immediately with plenty of water.
After eye contact	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
After ingestion	If swallowed, rinse mouth with water (only if the person is conscious). Give lots of water to drink.

5. Fire Fighting Measures.

Use any extinguishing media appropriate to fire conditions. Products may evolve toxic fumes under fire conditions.

6. Accidental Release Measures.

Mop up powder spills with wetted paper tissue and liquid spills with absorbent material. Hold for waste disposal.

7. Handling and Storage.

Store all components as per specified instructions.

8. Exposure controls/Personal protection.

Ingredient	Long term exposure limit	Short term exposure limit
Sodium azide	8 hours 0.1mg/m ³	10 mins 0.3mg/m ³
Thiomersal	8 hours 0.05mg/m ³	10 mins 0.15mg/m ³
Citric acid	Not known	Not known

9. Physical and Chemical Properties.

Component	Appearance	Colour	Odour
IFE plate 30075SA	Solid	Clear-pale yellow	Odourless
Tris/Barbital Buffer 30675SA	Liquid	Colourless	Odourless
Liquid Acid Blue 32084SA	Liquid	Dark blue/black	Odourless
Destain 31772SA	Liquid	Colourless	Odourless

10. Stability and Reactivity.

Sodium azide: contact with acid liberates very toxic gas.

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11. Toxicological Information

Ingredient	LD50 Oral	Information
Sodium azide	27mg/kg rat	After ingestion, irritation of mucous membranes in the mouth, pharynx, oesophagus and GI tract. Danger of skin absorption. After inhalation, sore throat, coughing, and shortness of breath. Systemic effects: cardiovascular disorders, CNS disorders, diarrhoea and tiredness.
Thiomersal	75mg/kg rat	Long-term exposure to mercury compounds leads to disorders/damage to the nervous system. Danger of skin absorption. The exposure of pregnant women to the gels should be avoided. Sensation with allergic manifestations in predisposed persons.
Citric acid	3g/kg rat	Causes irritation to respiratory tract. Symptoms may include coughing, shortness of breath. After ingestion, causes irritation to GI tract. Symptoms may include nausea, vomiting, diarrhoea. After skin contact, causes skin irritation. Symptoms include redness, itching and pain. Highly irritating to eyes.

12. Ecological Information.

Thiomersal is a marine and/or freshwater pollutant.
Azides in general are toxic for aquatic organisms.

13. Disposal Considerations.

General notes: In general, laboratory waste is under the special supervision of the authorities. Refer to applicable local regulations

14. Transport Information.

Ingredient	UN Number	Class/division	Subsidiary risk	UN packing group
Sodium azide	1687	6.1	N/A	II

All other components: No special precautions required.

15. Regulatory Information.

Component	Code and designation of product	Hazard-determining components of labelling	Hazard/ EUH statements	Precautionary statements
Liquid Acid Blue 32084SA	GHS-05, danger GHS-07, warning	Citric Acid	H315, 319, 335, 318	P305+351+338, 280
Destain 31772SA	GHS-05, danger GHS-07, warning	Citric Acid	H315, 319, 335, 318	P305+351+338, 280
Tris/Barbital Buffer 30675SA	GHS-07, warning	Sodium Azide	H302, EUH032, H412	P302+352, 310, 501, 273

16. Other Information.

Abbreviations used:

N/A Not applicable

Relevant Hazard/ EUH statements:

H302	Harmful if swallowed.
H301, 311, 331	Toxic by inhalation, in contact with skin and if swallowed.
H301	Toxic if swallowed.
EUH032	Contact with acid liberates very toxic gas.
H373	May cause damage to organs through prolonged or repeated exposure.
H315, 319, 335	Causes skin and serious eye irritation, may cause respiratory irritation.
H318	Causes serious eye damage.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Relevant Precautionary statements:

P305+351+338	IF IN EYES: rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+352	IF ON SKIN: wash with plenty of soap and water.
P280	Wear suitable protective clothing, gloves and eye/face protection.
P310	Immediately call a POISON CENTER or doctor/physician.
P501	Dispose of this material and its container to hazardous waste.
P273	Avoid release to the environment.

Disclaimer

The above information is presented by good will and by no means should be taken as absolute fact. The information is believed to be accurate but does not represent any guarantee of the properties of the product and therefore should only be used as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. Helena-Biosciences Europe shall not be held liable for any damage resulting from the handling or from contact with the above product.