GE Healthcare

SAFETY DATA SHEET

Conforms to EU Directive 91/155/EEC, as amended by 2001/58/EC - United Kingdom (UK)

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

Product name 2 M Imidazole; part of 'HisTrap™ FF crude Kit'

Catalogue Number 28-4014-77

Hazard symbol or symbols



Viquid. Product type

Company/undertaking identification

GE Healthcare Bio-Sciences AB Supplier

SE-751 84 Uppsala Sweden

+46 (0)18 612 0000

Emergency telephone number

Swedish Poisons Information Centre:

+46 (0)8 331 231

Person who prepared the MSDS: msdslifesciences@ge.com

United Kingdom (UK) GE Healthcare UK Ltd

Amersham Place Little Chalfont Buckinghamshire HP7 9NA

0870 606 1921

Hazards identification 2.

The preparation is classified as dangerous according to Directive 1999/45/EC and its amendments.

Classification C; R34 Human health hazards

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

3. Composition/information on ingredients

Substance/preparation Preparation

Ingredient name CAS number EC number Classification **I**midazole 288-32-4 10 - 20 206-019-2 Xn; R22 C; R34

See section 16 for the full text of the R-phrases declared above Occupational exposure limits, if available, are listed in section 8.



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4. First-aid measures

First-aid measures

Inhalation

Get medical attention immediately. 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. 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

Set 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. Chemical burns must be treated promptly by a physician. 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

Get medical attention immediately. Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing or wear gloves. Continue to rinse for at least 10 minutes. Chemical burns must be treated promptly by a physician. Wash clothing before reuse. Clean shoes thoroughly before reuse.

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.

Protection of first-aiders

 $\overline{\mathsf{N}}$ o action shall be taken involving any personal risk or without suitable training. If it is suspected that fumes are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing or wear gloves.

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

None known.

5. Fire-fighting measures

Extinguishing media

Suitable

ablase an extinguishing agent suitable for the surrounding fire.

Not suitable

Special exposure hazards

 $^{
m lh}$ a fire or if heated, a pressure increase will occur and the container may burst.

Fromptly 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.

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.

Accidental release measures 6.

Personal precautions

 \sqrt{N} o 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. 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

Kvoid 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).

Large spill

Stop leak if without risk. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wash spillages into an effluent treatment plant or proceed as follows. Contain and collect spillage with non-combustible, absorbent material e.g. sand, earth, vermiculite or diatomaceous earth and place in container for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product. Note: see section 1 for emergency contact information and section 13 for waste disposal.

Small spill

Stop leak if without risk. Move containers from spill area. Dilute with water and mop up if water-soluble or absorb with an inert dry material and place in an appropriate waste disposal container. Dispose of via a licensed waste disposal contractor.

7. Handling and storage

Handling

Fut 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 breathe vapour or mist. Do not ingest. If during normal use the material presents a respiratory hazard, use only with adequate ventilation or wear appropriate respirator. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.



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Storage

Store in accordance with local regulations. 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. 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

Not available. **Exposure limit values**

Exposure controls

Fuser operations generate dust, fumes, gas, vapour or mist, use process enclosures, local exhaust Occupational exposure controls

ventilation or other engineering controls to keep worker exposure to airborne contaminants below any

recommended or statutory limits.

 $ec{m{v}}$ se a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk Respiratory protection

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. Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times

Hand protection when handling chemical products if a risk assessment indicates this is necessary.

Safety eyewear complying with an approved standard should be used when a risk assessment indicates Eye protection

this is necessary to avoid exposure to liquid splashes, mists, gases 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.

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.

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

Liquid. Physical state Colourless Colour Odourless Odour

Important health, safety and environmental information

Not considered to be a product presenting a risk of explosion. **Explosive properties** Solubility Easily soluble in the following materials: cold water and hot water.

10. Stability and reactivity

Stability The product is stable. Under normal conditions of storage and use, hazardous polymerisation will not

occur.

No specific data. Materials to avoid

11. Toxicological information

Potential acute health effects

Inhalation May give off gas, vapor or dust that is very irritating or corrosive to the respiratory system. Exposure to

Rat

decomposition products may cause a health hazard. Serious effects may be delayed following exposure.

626 mg/kg

May cause burns to mouth, throat and stomach.

Corrosive to the skin. Causes burns. Skin contact Corrosive to eyes. Causes burns. Eve contact

Acute toxicity

Ingestion

Product/ingredient name Result **Species** Dose Exposure 220 mg/kg LD50 Oral **I**midazole Rat

LD50 Subcutaneous

Not available. Conclusion/Summary

Potential chronic health effects

No known significant effects or critical hazards. Chronic effects No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. Reproductive toxicity No known significant effects or critical hazards. **Developmental effects**



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No known significant effects or critical hazards. Fertility effects

Over-exposure signs/symptoms

Inhalation Ingestion

No specific data.

Adverse symptoms may include the following:

stomach pains

Skin

Adverse symptoms may include the following:

pain or irritation redness

blistering may occur

Eyes

Adverse symptoms may include the following:

pain watering redness

12. **Ecological information**

Environmental effects No known significant effects or critical hazards.

Aquatic ecotoxicity

Not available. Conclusion/Summary Not available. Conclusion/Summary

Product/ingredient name Aquatic half-life **Photolysis Biodegradability** Readily

midazole

Bioaccumulative potential

Product/ingredient name **Potential BCF** LogPow **M**idazole -0.02 low

Other adverse effects No known significant effects or critical hazards.

13. Disposal considerations

Methods of disposal The generation of waste should be avoided or minimised wherever possible. 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.

Transport information 14.

International transport regulations

Regulatory information UN number		<u>Proper shipping name</u>	<u>Class</u>	Packing group	<u>Label</u>	Additional information
ADR/RID Class	v N3267	Corrosive liquid, basic, organic, n.o.s. solution (Imidazole)	8	M		-
IMDG Class	☑ N3267	Corrosive liquid, basic, organic, n.o.s. solution (Imidazole). Marine pollutant (Imidazole)		M		Marine pollutant Marine pollutant (P)
IATA-DGR Class	ซ ีN3267	Corrosive liquid, basic, organic, n.o.s. solution (Imidazole)	8	M		-

15. Regulatory information

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



Corrosive

Risk phrases R34- Causes burns.



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S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Safety phrases

S36/37/39- Wear suitable protective clothing, gloves and eye/face protection.

S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where

possible).

₹3H4N2 206-019-2 Contains

Mdustrial applications. **Product use**

Europe inventory: All components are listed or exempted. Europe inventory

Other EU regulations

16. Other information

Full text of R-phrases referred to in R22- Harmful if swallowed. sections 2 and 3 - United Kingdom R34- Causes burns.

Full text of classifications referred to in sections 2 and 3 - United

C - Corrosive Xn - Harmful

Kingdom (UK)



Indicates information that has changed from previously issued version.

<u>History</u>

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Notice to reader

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