

SAFETY DATA SHEET

SIEMENS

IMMULITE® 2000 Gastrin

MSDS no. : L2KGA2

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product name : IMMULITE® 2000 Gastrin
Product code : L2KGA2, 10380979
Product description : Not available.

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

Not applicable.

1.3 Company/undertaking identification

Manufactured/supplied : Siemens Healthcare Diagnostics Limited
Sir William Siemens Square
Newton House
Camberley
Frimley
Surrey
GU16 8QD
UK

Phone: +44 (0) 1276 696000
Fax: +44 (0)1276 696133

e-mail address of person responsible for this SDS : dx.msds.healthcare@siemens.com

1.4 Emergency telephone number

: Poison Control:
In England and Wales:
NHS Direct – 0845 4647 or 111
In Scotland: NHS 24 – 08454 24 24 24
In the Republic of Ireland: 01 809 2166

CHEMTREC: 0870-8200418 (UK only)
00 + 1 + 703-527-3887 (UK & Ireland)
(International calls to the United Kingdom)

SECTION 1: Identification of the substance/mixture and of the company/undertaking

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition	: Gastrin Reagent Wedge Gastrin Adjustors	Mixture Mixture
<u>Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]</u>		
	Gastrin Adjustors LONG-TERM AQUATIC HAZARD Gastrin Reagent Wedge Gastrin Adjustors	Category 3 The product is not classified as hazardous according to Regulation (EC) 1272/2008 as amended. The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.
Ingredients of unknown toxicity	: Gastrin Reagent Wedge Gastrin Adjustors	Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 87.3%
Ingredients of unknown ecotoxicity	: Gastrin Reagent Wedge Gastrin Adjustors	Percentage of the mixture consisting of ingredient(s) of unknown hazards to the aquatic environment: 87.3%
<u>Classification according to Directive 1999/45/EC [DPD]</u>		
	Gastrin Reagent Wedge Gastrin Adjustors	The product is not classified as dangerous according to Directive 1999/45/EC and its amendments. The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.
Classification	: Gastrin Reagent Wedge Gastrin Adjustors	Not classified. Not classified.
Physical/chemical hazards	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not applicable.
Human health hazards	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not applicable.
Environmental hazards	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not applicable.

See Section 16 for the full text of the R phrases or H statements declared above.

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

2.2 Label elements

Signal word	: Gastrin Reagent Wedge Gastrin Adjustors	No signal word. No signal word.
Hazard statements	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. H412 - Harmful to aquatic life with long lasting effects.
<u>Precautionary statements</u>		
Prevention	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. P273 - Avoid release to the environment.
Response	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not applicable.

SECTION 2: Hazards identification

Storage	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not applicable.
Disposal	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. P501 - Dispose of contents and container in accordance with all local, regional, and national regulations.
Supplemental label elements	: : Gastrin Reagent Wedge Gastrin Adjustors	Safety data sheet available on request. Contains 2-methyl-2H-isothiazol-3-one. May produce an allergic reaction.
Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not applicable.

2.3 Other hazards

Other hazards which do not result in classification	: Gastrin Reagent Wedge Gastrin Adjustors	None known. None known.
Additional information	: Not available.	
	Not available.	

SECTION 3: Composition/information on ingredients

Substance/mixture	: Gastrin Reagent Wedge Gastrin Adjustors	Mixture Mixture
--------------------------	--	--------------------

Product/ingredient name	Identifiers	%	Classification		Type
			67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	
Gastrin Reagent Wedge aminocaproic acid	EC: 200-469-3 CAS: 60-32-2	>=1, <5	Not classified.	Eye Irrit. 2, H319	[1]
Gastrin Adjustors 2-methyl-2H-isothiazol-3-one	EC: 220-239-6 CAS: 2682-20-4	>=0.1, <1	Xn; R20/22 C; R34 R43 N; R50 See Section 16 for the full text of the R-phrases declared above.	Acute Tox. 3, H301 Acute Tox. 3, H311 Skin Corr. 1B, H314 Skin Sens. 1, H317 STOT SE 3, H335 Aquatic Acute 1, H400 Aquatic Chronic 1, H410 See Section 16 for the full text of the H statements declared above.	[1]

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, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section.

Type

SECTION 3: Composition/information on ingredients

- [1] Substance classified with a health or environmental hazard
 [2] Substance with a workplace exposure limit
 [3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII
 [4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII
 [5] Substance of equivalent concern

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

SECTION 4: First aid measures

4.1 Description of first aid measures

Eye contact	: Gastrin Reagent Wedge	Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if irritation occurs.
	Gastrin Adjustors	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. Get medical attention if irritation occurs.
Inhalation	: Gastrin Reagent Wedge	Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention if symptoms occur. 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.
	Gastrin Adjustors	Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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 adverse health effects persist or are severe. 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.
Skin contact	: Gastrin Reagent Wedge	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur.
	Gastrin Adjustors	Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.

SECTION 4: First aid measures

Ingestion	: Gastrin Reagent Wedge	Wash out mouth with water. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical attention if symptoms occur.
	Gastrin Adjustors	Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. Get medical attention if adverse health effects persist or are severe. 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.
Protection of first-aiders	: Gastrin Reagent Wedge	No action shall be taken involving any personal risk or without suitable training.
	Gastrin Adjustors	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

Eye contact	: Gastrin Reagent Wedge	No known significant effects or critical hazards.
	Gastrin Adjustors	No known significant effects or critical hazards.
Inhalation	: Gastrin Reagent Wedge	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
	Gastrin Adjustors	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Gastrin Reagent Wedge	No known significant effects or critical hazards.
	Gastrin Adjustors	No known significant effects or critical hazards.

SECTION 4: First aid measures

Ingestion	: Gastrin Reagent Wedge	No known significant effects or critical hazards.
	Gastrin Adjustors	No known significant effects or critical hazards.

Over-exposure signs/symptoms

Eye contact	: Gastrin Reagent Wedge	No specific data.
	Gastrin Adjustors	No specific data.
Inhalation	: Gastrin Reagent Wedge	No specific data.
	Gastrin Adjustors	No specific data.
Skin contact	: Gastrin Reagent Wedge	No specific data.
	Gastrin Adjustors	No specific data.
Ingestion	: Gastrin Reagent Wedge	No specific data.
	Gastrin Adjustors	No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician	: Gastrin Reagent Wedge	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.
	Gastrin Adjustors	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.
Specific treatments	: Gastrin Reagent Wedge	No specific treatment.
	Gastrin Adjustors	No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media	: Use dry chemical, CO ₂ , water spray (fog) or foam.
Unsuitable extinguishing media	: None known.

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture	: In a fire or if heated, a pressure increase will occur and the container may burst. This material is harmful to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides sulfur oxides halogenated compounds metal oxide/oxides

5.3 Advice for firefighters

Special protective actions for fire-fighters	: 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.
---	---

SECTION 5: Firefighting measures

- 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. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- For non-emergency personnel** : 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. Avoid breathing vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.
- For emergency responders** : If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

6.2 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). Water polluting material. May be harmful to the environment if released in large quantities.

6.3 Methods and materials for containment and cleaning up

- 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. Dispose of via a licensed waste disposal contractor.
- 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. Dispose of via a licensed waste disposal contractor. Contaminated absorbent material may pose the same hazard as the spilt product.

6.4 Reference to other sections

- : See Section 1 for emergency contact information.
See Section 8 for information on appropriate personal protective equipment.
See Section 13 for additional waste treatment information.

SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not ingest. Avoid contact with eyes, skin and clothing. Avoid breathing vapour or mist. Avoid release to the environment. 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.
- Advice on general occupational hygiene** : 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. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

SECTION 7: Handling and 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.

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific solutions : Not available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. Information is provided based on typical anticipated uses of the product. Additional measures might be required for bulk handling or other uses that could significantly increase worker or exposure or environmental releases.

8.1 Control parameters

Occupational exposure limits

No exposure limit value known.

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required.

DNELs/DMELs

No DNELs/DMELs available.

PNECs

No PNECs available

8.2 Exposure controls

Appropriate engineering controls : Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Individual protection measures

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.

Eye/face 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, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields.

Skin protection

SECTION 8: Exposure controls/personal protection

- | | |
|--|--|
| 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. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated. |
| Body 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. |
| Other skin protection | : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. |
| 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. |
| 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. |

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state	: Gastrin Reagent Wedge Gastrin Adjustors	Liquid. Solid.
Colour	: Gastrin Reagent Wedge Gastrin Adjustors	Colourless. Colourless.
Odour	: Gastrin Reagent Wedge Gastrin Adjustors	Odourless. Odourless.
pH	: Gastrin Reagent Wedge Gastrin Adjustors	7.35 to 7.45 Not applicable.
Melting point/freezing point	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Initial boiling point and boiling range	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Flash point	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Evaporation rate	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Flammability (solid, gas)	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Burning time	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not available.
Burning rate	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not available.
Upper/lower flammability or explosive limits	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Vapour pressure	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Solubility in water	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.

SECTION 9: Physical and chemical properties

Partition coefficient: n-octanol/ water	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Auto-ignition temperature	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Decomposition temperature	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Viscosity	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Explosive properties	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Oxidising properties	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.

9.2 Other information

SADT	: Not available.
<u>Aerosol product</u>	
Type of aerosol	: Not applicable.
Heat of combustion	: Not available.
Ignition distance	: Not applicable.
Enclosed space ignition - Time equivalent	: Not applicable.
Enclosed space ignition - Deflagration density	: Not applicable.
Flame height	: Not applicable.
Flame duration	: Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity	: Gastrin Reagent Wedge Gastrin Adjustors	No specific test data related to reactivity available for this product or its ingredients. No specific test data related to reactivity available for this product or its ingredients.
10.2 Chemical stability	: Gastrin Reagent Wedge Gastrin Adjustors	The product is stable. The product is stable.
10.3 Possibility of hazardous reactions	: Gastrin Reagent Wedge Gastrin Adjustors	Under normal conditions of storage and use, hazardous reactions will not occur. Under normal conditions of storage and use, hazardous reactions will not occur.
10.4 Conditions to avoid	: Gastrin Reagent Wedge Gastrin Adjustors	No specific data. No specific data.
10.5 Incompatible materials	: Gastrin Reagent Wedge Gastrin Adjustors	No specific data. No specific data.

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products	: Gastrin Reagent Wedge	Under normal conditions of storage and use, hazardous decomposition products should not be produced.
	Gastrin Adjustors	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Conclusion/Summary	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.

Acute toxicity estimates

Route	ATE value
Gastrin Adjustors	
Oral	6393.9 mg/kg
Dermal	19181.8 mg/kg

Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
Gastrin Reagent Wedge aminocaproic acid	Eyes - Mild irritant	Rabbit	-	24 hours 500 milligrams	-

Conclusion/Summary

Skin	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.
Eyes	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.
Respiratory	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.

Sensitisation

Conclusion/Summary

Skin	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.
Respiratory	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.

Mutagenicity

Conclusion/Summary	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.

Carcinogenicity

Conclusion/Summary	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.

Reproductive toxicity

Conclusion/Summary	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.

Teratogenicity

Conclusion/Summary	: Gastrin Reagent Wedge	Not available.
	Gastrin Adjustors	Not available.

Specific target organ toxicity (single exposure)

SECTION 11: Toxicological information

Product/ingredient name	Category	Route of exposure	Target organs
Gastrin Adjustors 2-methyl-2H-isothiazol-3-one	Category 3	Not applicable.	Respiratory tract irritation

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

Eye contact	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Inhalation	: Gastrin Reagent Wedge Gastrin Adjustors	Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure. Exposure to decomposition products may cause a health hazard. Serious effects may be delayed following exposure.
Skin contact	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Ingestion	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact	: Gastrin Reagent Wedge Gastrin Adjustors	No specific data. No specific data.
Inhalation	: Gastrin Reagent Wedge Gastrin Adjustors	No specific data. No specific data.
Skin contact	: Gastrin Reagent Wedge Gastrin Adjustors	No specific data. No specific data.
Ingestion	: Gastrin Reagent Wedge Gastrin Adjustors	No specific data. No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

Potential immediate effects	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Potential delayed effects	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.

Long term exposure

SECTION 11: Toxicological information

Potential immediate effects	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Potential delayed effects	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
<u>Potential chronic health effects</u>		
Not available.		
Conclusion/Summary	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
General	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Carcinogenicity	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Mutagenicity	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Teratogenicity	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Developmental effects	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Fertility effects	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
Interactive effects	:	
Other information	: Not available.	

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
Gastrin Adjustors 2-methyl-2H-isothiazol-3-one	Acute EC50 0.18 ppm Fresh water Acute LC50 0.07 ppm Fresh water	Daphnia - Daphnia magna Fish - Oncorhynchus mykiss	48 hours 96 hours

Conclusion/Summary	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
---------------------------	--	----------------------------------

12.2 Persistence and degradability

Conclusion/Summary	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
---------------------------	--	----------------------------------

12.3 Bioaccumulative potential

SECTION 12: Ecological information

Product/ingredient name	LogP _{ow}	BCF	Potential
Gastrin Reagent Wedge aminocaproic acid	-2.95	-	low

12.4 Mobility in soil

Soil/water partition coefficient (K_{oc})	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.
Mobility	: Gastrin Reagent Wedge Gastrin Adjustors	Not available. Not available.

12.5 Results of PBT and vPvB assessment

PBT	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not applicable.
vPvB	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not applicable.

12.6 Other adverse effects	: Gastrin Reagent Wedge Gastrin Adjustors	No known significant effects or critical hazards. No known significant effects or critical hazards.
-----------------------------------	--	--

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods

Product

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. 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. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction.	
Hazardous waste	: Gastrin Reagent Wedge	Within the present knowledge of the supplier, this product is not regarded as hazardous waste, as defined by EU Directive 91/689/EEC.
	Gastrin Adjustors	The classification of the product may meet the criteria for a hazardous waste.
	Not available.	

Packaging

Methods of disposal	: The generation of waste should be avoided or minimised wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.
Special precautions	: This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

SECTION 14: Transport information

ADR/RID

14.1 UN number	Gastrin Reagent Wedge Gastrin Adjustors	Not regulated. Not regulated.
14.2 UN proper shipping name	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.3 Transport hazard class(es)	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.4 Packing group	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.5 Environmental hazards	Gastrin Reagent Wedge Gastrin Adjustors	No. No.
Additional information	Gastrin Reagent Wedge Gastrin Adjustors	- -

ADN

14.1 UN number	Gastrin Reagent Wedge Gastrin Adjustors	Not regulated. Not regulated.
14.2 UN proper shipping name	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.3 Transport hazard class(es)	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.4 Packing group	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.5 Environmental hazards	Gastrin Reagent Wedge Gastrin Adjustors	No. No.
Additional information	Gastrin Reagent Wedge Gastrin Adjustors	- -

IMDG

14.1 UN number	Gastrin Reagent Wedge Gastrin Adjustors	Not regulated. Not regulated.
14.2 UN proper shipping name	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.3 Transport hazard class(es)	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.4 Packing group	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.5 Environmental hazards	Gastrin Reagent Wedge Gastrin Adjustors	No. No.

SECTION 14: Transport information

Additional information	Gastrin Reagent Wedge Gastrin Adjustors	- -
IATA		
14.1 UN number	Gastrin Reagent Wedge Gastrin Adjustors	Not regulated. Not regulated.
14.2 UN proper shipping name	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.3 Transport hazard class(es)	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.4 Packing group	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.5 Environmental hazards	Gastrin Reagent Wedge Gastrin Adjustors	No. No.
Additional information	Gastrin Reagent Wedge Gastrin Adjustors	- -
14.6 Special precautions for user	<p>Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</p> <p>Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.</p>	
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	: Not available.	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorisation

Annex XIV

None of the components are listed.

Substances of very high concern

None of the components are listed.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles	: Gastrin Reagent Wedge Gastrin Adjustors	Not applicable. Not applicable.
---	--	------------------------------------

SECTION 15: Regulatory information

Other EU regulations

Europe inventory : Not determined.

Seveso II Directive

Gastrin Reagent Wedge

This product is not controlled under the Seveso II Directive.

Gastrin Adjustors

This product is not controlled under the Seveso II Directive.

International regulations

Chemical Weapons Convention List Schedule I Chemicals	: Gastrin Reagent Wedge	Not listed
	Gastrin Adjustors	Not listed

Chemical Weapons Convention List Schedule II Chemicals	: Gastrin Reagent Wedge	Not listed
	Gastrin Adjustors	Not listed

Chemical Weapons Convention List Schedule III Chemicals	: Gastrin Reagent Wedge	Not listed
	Gastrin Adjustors	Not listed

15.2 Chemical Safety Assessment : Not applicable.

SECTION 16: Other information

Abbreviations and acronyms :

- ATE = Acute Toxicity Estimate
- CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]
- DMEL = Derived Minimal Effect Level
- DNEL = Derived No Effect Level
- EUH statement = CLP-specific Hazard statement
- PBT = Persistent, Bioaccumulative and Toxic
- PNEC = Predicted No Effect Concentration
- RRN = REACH Registration Number
- vPvB = Very Persistent and Very Bioaccumulative

Gastrin Adjustors

Aquatic Chronic 3, H412

Calculation method

Full text of abbreviated H statements

: Gastrin Reagent Wedge
H319

Causes serious eye irritation.

Gastrin Adjustors

H301

Toxic if swallowed.

H311

Toxic in contact with skin.

H314

Causes severe skin burns and eye damage.

H317

May cause an allergic skin reaction.

H335

May cause respiratory irritation.

H400

Very toxic to aquatic life.

H410

Very toxic to aquatic life with long lasting effects.

H412

Harmful to aquatic life with long lasting effects.

SECTION 16: Other information

Full text of classifications [CLP/GHS] : **Gastrin Reagent Wedge**
Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

Gastrin Adjustors

Acute Tox. 3, H301	ACUTE TOXICITY: ORAL - Category 3
Acute Tox. 3, H311	ACUTE TOXICITY: SKIN - Category 3
Aquatic Acute 1, H400	ACUTE AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410	LONG-TERM AQUATIC HAZARD - Category 1
Aquatic Chronic 3, H412	LONG-TERM AQUATIC HAZARD - Category 3
Skin Corr. 1B, H314	SKIN CORROSION/IRRITATION - Category 1B
Skin Sens. 1, H317	SKIN SENSITIZATION - Category 1
STOT SE 3, H335	SPECIFIC TARGET ORGAN TOXICITY (SINGLE EXPOSURE) [Respiratory tract irritation] - Category 3

Full text of abbreviated R phrases : R20/22- Harmful by inhalation and if swallowed.
R34- Causes burns.
R43- May cause sensitisation by skin contact.
R50- Very toxic to aquatic organisms.

Full text of classifications [DSD/DPD] : C - Corrosive
Xn - Harmful
N - Dangerous for the environment

Date of printing : 1/15/2016.

Date of issue/ Date of revision : 1/15/2016.

Date of previous issue : 5/6/2015.

Version : 3

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.