SAFETY DATA SHEET



L2KAC2

MSDS no.:

IMMULITE® 2000 ACTH

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

1.1 Product identifier

Product name : IMMULITE® 2000 ACTH
Product code : L2KAC2, 10381468
Product description : Not available.

Product type : Liquid.

Other means of
identification: ACTH Reagent Wedge A
ACTH Reagent Wedge B
ACTH AdjustorsL2ACA2-A
L2ACA2-B
LACL, LACH

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)

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 1/20

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Product definition : ACTH Reagent Wedge A Mixture

ACTH Reagent Wedge B Mixture ACTH Adjustors Mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

ACTH Adjustors

ACUTE TOXICITY ORAL Category 4
ACUTE TOXICITY SKIN Category 3
LONG-TERM AQUATIC Category 2

HAZARD

ACTH Reagent Wedge A The product is not classified as

hazardous according to Regulation (EC)

1272/2008 as amended.

ACTH Reagent Wedge B The product is not classified as

hazardous according to Regulation (EC)

1272/2008 as amended.

ACTH Adjustors The product is classified as hazardous

according to Regulation (EC) 1272/2008

as amended.

Ingredients of unknown

toxicity

: ACTH Reagent Wedge A

Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 2%

ACTH Reagent Wedge B

ACTH Adjustors

Ingredients of unknown

ecotoxicity

: ACTH Reagent Wedge A

Percentage of the mixture consisting of ingredient(s) of unknown hazards to the

aquatic environment: 2%

ACTH Reagent Wedge B

ACTH Adjustors

Classification according to Directive 1999/45/EC [DPD]

ACTH Reagent Wedge A The product is not classified as

dangerous according to Directive 1999/45/EC and its amendments.

ACTH Reagent Wedge B

The product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

ACTH Adjustors The product is classified as dangerous

according to Directive 1999/45/EC and

its amendments.

Classification : ACTH Reagent Wedge A Not classified.

ACTH Reagent Wedge B Not classified.

ACTH Adjustors T; R25

R32 N; R51/53

Physical/chemical

hazards

: ACTH Reagent Wedge A ACTH Reagent Wedge B ACTH Adjustors

Not applicable. Not applicable.

Human health hazards : ACTH Reagent Wedge A ACTH Reagent Wedge B N

Not applicable. Not applicable.

Not applicable.

ACTH Adjustors

Toxic if swallowed. Contact with acids

liberates very toxic gas.

Environmental hazards : ACTH Reagent Wedge A Not applicable.

ACTH Reagent Wedge B Not applicable.

ACTH Adjustors Toxic to aquatic organisms, may cause

long-term adverse effects in the aquatic

environment.

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

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 2/20

SECTION 2: Hazards identification

Hazard pictograms





Signal word : ACTH Reagent Wedge A No signal word. ACTH Reagent Wedge B No signal word.

> **ACTH Adjustors** Danger

Hazard statements : ACTH Reagent Wedge A No known significant effects or critical

hazards.

No known significant effects or critical ACTH Reagent Wedge B

hazards.

ACTH Adjustors H311 - Toxic in contact with skin.

> H302 - Harmful if swallowed. H411 - Toxic to aquatic life with long

lasting effects.

Precautionary statements

Prevention : ACTH Reagent Wedge A Not applicable.

ACTH Reagent Wedge B Not applicable. **ACTH Adjustors**

P280 - Wear protective gloves/protective clothing/eye protection/face protection. P273 - Avoid release to the environment.

: ACTH Reagent Wedge A Not applicable. Response

ACTH Reagent Wedge B Not applicable. **ACTH Adjustors**

P301 + P312 - IF SWALLOWED: Call a POISON CENTER or physician if you

feel unwell.

P302 + P312 - IF ON SKIN: Call a POISON CENTER or physician if you

feel unwell.

Not applicable. Storage : ACTH Reagent Wedge A ACTH Reagent Wedge B Not applicable.

ACTH Adjustors Not applicable.

: ACTH Reagent Wedge A Not applicable. **Disposal**

ACTH Reagent Wedge B Not applicable.

P501 - Dispose of contents and **ACTH Adjustors** container in accordance with all local, regional, and national regulations.

Hazardous ingredients : ACTH Adjustors

Sodium azide

Supplemental label elements

: Not applicable.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and

ACTH Reagent Wedge B **ACTH Adjustors**

: ACTH Reagent Wedge A

Not applicable. Not applicable. Not applicable.

articles

2.3 Other hazards

Other hazards which do not result in classification : None known.

Potentially biohazardous material.

Date of issue/Date of revision : 5/6/2015. 3/20 Date of previous issue : 3/11/2015. Version: 3

SECTION 3: Composition/information on ingredients

: ACTH Reagent Wedge A Substance/mixture Mixture ACTH Reagent Wedge B Mixture **ACTH Adjustors** Mixture

			Class	<u>ification</u>	
Product/ingredient name	Identifiers	%	67/548/EEC	Regulation (EC) No. 1272/2008 [CLP]	Туре
ACTH Reagent Wedge A aminocaproic acid	EC: 200-469-3 CAS: 60-32-2	>=1, <5	Not classified.	Eye Irrit. 2, H319	[1]
ACTH Reagent Wedge B aminocaproic acid	EC: 200-469-3 CAS: 60-32-2	>=1, <5	Not classified.	Eye Irrit. 2, H319	[1]
ACTH Adjustors sodium azide	EC: 247-852-1 CAS: 26628-22-8 Index: 011-004-00-7	>=3, <7	T+; R28 R32 N; R50/53	Acute Tox. 2, H300 Acute Tox. 1, H310 Aquatic Acute 1, H400 Aquatic Chronic 1, H410	[1] [2]
			See Section 16 for the full text of the R- phrases declared above.	See Section 16 for the full text of the H statements declared above.	

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

- [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 : ACTH Reagent Wedge A Immediately flush eyes with plenty of

ACTH Adjustors

water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical

attention if irritation occurs.

Immediately flush eyes with plenty of ACTH Reagent Wedge B

water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Get medical

attention if irritation occurs.

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.

Date of issue/Date of revision : 5/6/2015. : 3/11/2015. Version Date of previous issue

SECTION 4: First aid measures

Inhalation : ACTH Reagent Wedge A 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. 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. 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 mouthto-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.

Flush contaminated skin with plenty of water. Remove contaminated clothing and shoes. Get medical attention if

symptoms occur.

Flush contaminated skin with plenty of water. Remove contaminated clothing

and shoes. Get medical attention if

symptoms occur.

Wash with plenty of soap and 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. If necessary, call a poison center or physician. Wash clothing before reuse.

Clean shoes thoroughly before reuse.

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.

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

ACTH Reagent Wedge B

ACTH Adjustors

Skin contact : ACTH Reagent Wedge A

ACTH Reagent Wedge B

ACTH Adjustors

Ingestion : ACTH Reagent Wedge A

ACTH Reagent Wedge B

: 3/11/2015. Version : 3 Date of issue/Date of revision : 5/6/2015. Date of previous issue

SECTION 4: First aid measures

quantities of water to drink. Do not induce vomiting unless directed to do so by medical personnel. Get medical

attention if symptoms occur.

ACTH 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 necessary, call a poison center or physician. Never give anything by mouth to an unconscious person. If unconscious, place in

airway. Loosen tight clothing such as a collar, tie, belt or waistband.

recovery position and get medical attention immediately. Maintain an open

Protection of first-aiders

: 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. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.

4.2 Most important symptoms and effects, both acute and delayed Potential acute health effects

Eye contact : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors No known significant effects or critical

hazards.

Inhalation : ACTH Reagent Wedge A Exposure to decomposition products

may cause a health hazard. Serious effects may be delayed following

exposure.

ACTH Reagent Wedge B Exposure to decomposition products

may cause a health hazard. Serious effects may be delayed following

exposure.

ACTH Adjustors Exposure to decomposition products

may cause a health hazard. Serious effects may be delayed following

exposure.

Skin contact : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors Toxic in contact with skin.

Ingestion : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors Harmful if swallowed.

Over-exposure signs/symptoms

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 6/20

SECTION 4: First aid measures

Eye contact : ACTH Reagent Wedge A No specific data.

ACTH Reagent Wedge B No specific data.
ACTH Adjustors No specific data.

Inhalation : ACTH Reagent Wedge A No specific data.

ACTH Reagent Wedge B No specific data. ACTH Adjustors No specific data.

Skin contact : ACTH Reagent Wedge A No specific data.

ACTH Reagent Wedge B No specific data.
ACTH Adjustors No specific data.

Ingestion : ACTH Reagent Wedge A No specific data.

ACTH Reagent Wedge B No specific data.
ACTH Adjustors No specific data.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician : 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: No specific treatment.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing

media

: Use dry chemical, CO₂, 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.

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. Do not breathe vapour or mist. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 7/20

SECTION 6: Accidental release measures

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 get in eyes or on skin or clothing. Do not breathe vapour or mist. Do not ingest. 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

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. Store locked up. 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.

Seveso II Directive - Reporting thresholds (in tonnes)

Danger criteria

Category	Notification and MAPP threshold	Safety report threshold
ACTH Adjustors H2: Acute toxicity 2 any route of entry or Acute toxicity 3 Inhalation/Dermal route of entry	50	200
E2: Hazardous to the aquatic environment - Chronic 2 C2: Toxic C9ii: Toxic for the environment	200 50 200	500 200 500

Date of issue/Date of revision : 5/6/2015 : 3/11/2015. Version Date of previous issue

SECTION 7: Handling and storage

7.3 Specific end use(s)

Recommendations : Not available.

Industrial sector specific : Not available.

solutions

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

Product/ingredient name	Exposure limit values
	EH40/2005 WELs (United Kingdom (UK), 12/2011). Absorbed through skin. Notes: as NaN3 STEL: 0.3 mg/m³, (as NaN3) 15 minutes. TWA: 0.1 mg/m³, (as NaN3) 8 hours.

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

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 9/20

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

Δ	n	n	A	а	ra	n	C	•
_	~	v	v	u	··	••	v	•

Colour

Initial boiling point and

Physical state : ACTH Reagent Wedge A Liquid.

ACTH Adjustors Solid

ACTH Adjustors Solid.

: ACTH Reagent Wedge A Colourless.
ACTH Reagent Wedge B Colourless.
ACTH Adjustors Off-white.

Odour: ACTH Reagent Wedge AOdorless.ACTH Reagent Wedge BOdorless.

ACTI Reagent Wedge B Odoness.
ACTH Adjustors Odoness.

PH : ACTH Reagent Wedge A 5.95 to 6.05

ACTH Reagent Wedge B 7.35 to 7.45 ACTH Adjustors Not applicable.

Melting point/freezing point: ACTH Reagent Wedge A
ACTH Reagent Wedge BNot available.Not available.

ACTH Adjustors

Not available.

ACTH Reagent Wedge A

ACTH Reagent Wedge B

Not available.

boiling range ACTH Reagent Wedge B Not available.

ACTH Adjustors Not available.

Flash point : ACTH Reagent Wedge A Not available.

ACTH Reagent Wedge B Not available.
ACTH Adjustors Not available.

Evaporation rate : ACTH Reagent Wedge A Not available.

ACTH Reagent Wedge B Not available.
ACTH Adjustors Not available.

Flammability (solid, gas) : ACTH Reagent Wedge A Not available.

ACTH Reagent Wedge B Not available.

ACTH Adjustors Not available.

Burning time : ACTH Reagent Wedge A Not applicable.

ACTH Reagent Wedge B

ACTH Reagent Wedge A

Not applicable.

Burning rate : ACTH Reagent Wedge A Not applicable.

ACTH Reagent Wedge B Not applicable.

ACTH Adjustors Not available.

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 10/20

SECTION 9: Physical and chemical properties

Upper/lower flammability or

explosive limits

Solubility in water

ACTH Reagent Wedge A ACTH Reagent Wedge B

ACTH Adjustors

Vapour pressure ACTH Reagent Wedge A

ACTH Reagent Wedge B **ACTH Adjustors**

: ACTH Reagent Wedge A

ACTH Reagent Wedge B

ACTH Adjustors

Partition coefficient: n-octanol/ : ACTH Reagent Wedge A

water

Viscosity

ACTH Reagent Wedge B

ACTH Adjustors

ACTH Reagent Wedge A **Auto-ignition temperature**

ACTH Reagent Wedge B **ACTH Adjustors**

Decomposition temperature

: ACTH Reagent Wedge A ACTH Reagent Wedge B **ACTH Adjustors**

: ACTH Reagent Wedge A

ACTH Reagent Wedge B

ACTH Adjustors

Explosive properties : ACTH Reagent Wedge A

ACTH Reagent Wedge B

ACTH Adjustors

Explosive in the presence of the following materials or conditions:

metals, acids and moisture.

Oxidising properties : ACTH Reagent Wedge A

ACTH Reagent Wedge B **ACTH Adjustors**

Not available. Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

Not available. Not available.

Not available.

Not available.

Not available.

Not available.

Not available.

9.2 Other information

SADT Not available.

Aerosol product

Type of aerosol : Not applicable. Not available. **Heat of combustion Ignition distance** : Not applicable. **Enclosed space ignition -**Not applicable.

Time equivalent

Enclosed space ignition -

Deflagration density

: Not applicable.

Flame height : Not applicable. Flame duration Not applicable.

SECTION 10: Stability and reactivity

10.1 Reactivity : No specific test data related to reactivity available for this product or its ingredients.

10.2 Chemical stability : The product is stable.

10.3 Possibility of hazardous reactions : Under normal conditions of storage and use, hazardous reactions will not occur.

10.4 Conditions to avoid : No specific data.

10.5 Incompatible materials : No specific data.

Date of issue/Date of revision 11/20 : 5/6/2015. Date of previous issue : 3/11/2015 Version : 3

SECTION 10: Stability and reactivity

10.6 Hazardous decomposition products

: 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

Product/ingredient name	Result	Species	Dose	Exposure
ACTH Adjustors				
sodium azide	LD50 Dermal	Rabbit	20 mg/kg	-
	LD50 Dermal	Rat	50 mg/kg	-
	LD50 Oral	Rat	27 mg/kg	-

Conclusion/Summary

: Not available.

Acute toxicity estimates

Route	ATE value
ACTH Adjustors	
Oral	396.5 mg/kg
	293.7 mg/kg

Irritation/Corrosion

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

Conclusion/Summary

: Not available.

Sensitisation

Conclusion/Summary

: Not available.

Mutagenicity

Conclusion/Summary

: Not available.

Carcinogenicity

Conclusion/Summary

: Not available.

Reproductive toxicity

Conclusion/Summary

: Not available.

Teratogenicity

Conclusion/Summary: Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely

: Not available.

routes of exposure

Potential acute health effects

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 12/20

SECTION 11: Toxicological information

Eye contact : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors No known significant effects or critical

hazards.

Inhalation : ACTH Reagent Wedge A Exposure to decomposition products

may cause a health hazard. Serious effects may be delayed following

exposure.

ACTH Reagent Wedge B Exposure to decomposition products

may cause a health hazard. Serious effects may be delayed following

exposure.

ACTH Adjustors Exposure to decomposition products

may cause a health hazard. Serious effects may be delayed following

exposure.

Skin contact: ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors Toxic in contact with skin.

Ingestion : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

Not available.

ACTH Adjustors Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

Eye contact : ACTH Reagent Wedge A No specific data.

ACTH Reagent Wedge B No specific data.
ACTH Adjustors No specific data.

Inhalation: ACTH Reagent Wedge ANo specific data.ACTH Reagent Wedge BNo specific data.

ACTH Adjustors No specific data.

Skin contact : ACTH Reagent Wedge A No specific data.

ACTH Reagent Wedge B No specific data.

ACTH Reagent Wedge B No specific data.
ACTH Adjustors No specific data.

: ACTH Reagent Wedge A No specific data.

ACTH Reagent Wedge B No specific data.
ACTH Adjustors No specific data.

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

Short term exposure

Ingestion

Potential immediate: ACTH Reagent Wedge ANot available.effectsACTH Reagent Wedge BNot available.

ACTH Reagent Wedge B Not available.
ACTH Adjustors Not available.

Potential delayed effects : ACTH Reagent Wedge A Not available.

ACTH Reagent Wedge B Not available.

ACTH Adjustors

Long term exposure

Potential immediate : ACTH Reagent Wedge A Not available.

effects ACTH Reagent Wedge B Not available.
ACTH Adjustors Not available.

Potential delayed effects : ACTH Reagent Wedge A Not available.

ACTH Reagent Wedge B Not available.
ACTH Adjustors Not available.

Potential chronic health effects

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 13/20

SECTION 11: Toxicological information

Not available.

Conclusion/Summary : Not available.

General : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors No known significant effects or critical

hazards.

Carcinogenicity : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors No known significant effects or critical

hazards.

Mutagenicity : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors No known significant effects or critical

hazards.

Teratogenicity: ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors No known significant effects or critical

hazards.

Developmental effects : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors No known significant effects or critical

hazards.

Fertility effects : ACTH Reagent Wedge A No known significant effects or critical

hazards.

ACTH Reagent Wedge B No known significant effects or critical

hazards.

ACTH Adjustors No known significant effects or critical

hazards.

Other information : Not available.

SECTION 12: Ecological information

12.1 Toxicity

Product/ingredient name	Result	Species	Exposure
ACTH Adjustors sodium azide	Acute EC50 0.348 mg/l Fresh water	Algae - Pseudokirchneriella subcapitata	96 hours
	Acute EC50 4.2 to 6.2 mg/l Fresh water	•	48 hours
	Acute LC50 9000 μg/l Fresh water	Crustaceans - Gammarus lacustris	48 hours
	Acute LC50 0.68 mg/l Fresh water Chronic NOEC 5600 µg/l Marine water	Fish - Lepomis macrochirus Algae - Macrocystis pyrifera	96 hours 96 hours

Conclusion/Summary: Not available.

12.2 Persistence and degradability

Conclusion/Summary: Not available.

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 14/20

SECTION 12: Ecological information

12.3 Bioaccumulative potential

Product/ingredient name	LogPow	BCF	Potential
ACTH Reagent Wedge A aminocaproic acid	-2.95	-	low
ACTH Reagent Wedge B aminocaproic acid	-2.95	-	low

12.4 Mobility in soil

Soil/water partition coefficient (Koc)

: Not available.

Mobility

: Not available.

12.5 Results of PBT and vPvB assessment

PBT : ACTH Reagent Wedge A Not applicable.

ACTH Reagent Wedge B Not applicable.

ACTH Adjustors

ACTH Reagent Wedge A

ACTH Reagent Wedge A

ACTH Reagent Wedge B

ACTH Adjustors

Not applicable.

Not applicable.

Not applicable.

Not applicable.

12.6 Other adverse effects : 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

vPvB

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 : ACTH Reagent Wedge A Within the present knowledge of the

supplier, this product is not regarded as hazardous waste, as defined by EU

Directive 91/689/EEC.

ACTH Reagent Wedge B Within the present knowledge of the

supplier, this product is not regarded as hazardous waste, as defined by EU

Directive 91/689/EEC.

ACTH Adjustors The classification of the product may

meet the criteria for a hazardous waste.

Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.

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.

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 15/20

SECTION 14: Transport information

|--|

14.1 UN number ACTH Reagent Wedge A Not regulated. ACTH Reagent Wedge B Not regulated.

ACTH Adjustors UN3288

ACTH Reagent Wedge A 14.2 UN proper shipping name ACTH Reagent Wedge B

ACTH Adjustors Toxic solid, inorganic, n.o.s. (sodium azide)

14.3 Transport ACTH Reagent Wedge A hazard class(es) ACTH Reagent Wedge B 6.1

ACTH Adjustors

14.4 Packing ACTH Reagent Wedge A ACTH Reagent Wedge B group Ш **ACTH Adjustors**

14.5 ACTH Reagent Wedge A No. ACTH Reagent Wedge B **Environmental** No. Yes.

ACTH Adjustors hazards **Additional** ACTH Reagent Wedge A

ACTH Reagent Wedge B information

ACTH Adjustors Tunnel code

ADN

14.1 UN number Not regulated. ACTH Reagent Wedge A ACTH Reagent Wedge B Not regulated.

UN3288 **ACTH Adjustors**

(E)

14.2 UN proper ACTH Reagent Wedge A

ACTH Reagent Wedge B shipping name **ACTH Adjustors** Toxic solid, inorganic, n.o.s. (sodium azide)

ACTH Reagent Wedge A 14.3 Transport hazard class(es)

ACTH Reagent Wedge B 6.1 **ACTH Adjustors**

14.4 Packing ACTH Reagent Wedge A ACTH Reagent Wedge B group

Ш **ACTH Adjustors**

14.5 ACTH Reagent Wedge A No. ACTH Reagent Wedge B **Environmental** No. **ACTH Adjustors** Yes. hazards

Additional ACTH Reagent Wedge A ACTH Reagent Wedge B information

ACTH Adjustors

IMDG

14.1 UN number ACTH Reagent Wedge A Not regulated. ACTH Reagent Wedge B Not regulated.

ACTH Adjustors UN3288

14.2 UN proper ACTH Reagent Wedge A ACTH Reagent Wedge B shipping name

ACTH Adjustors Toxic solid, inorganic, n.o.s. (sodium azide)

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SECTION 14: Transport information

14.3 Transport ACTH Reagent Wedge A - hazard class(es) ACTH Reagent Wedge B - ACTH Adjustors 6.1

14.4 Packing ACTH Reagent Wedge A group ACTH Reagent Wedge B ACTH Adjustors III

14.5ACTH Reagent Wedge ANo.Environmental
hazardsACTH Reagent Wedge BNo.AdditionalACTH AdjustorsYes.AdditionalACTH Reagent Wedge A-

information ACTH Reagent Wedge A ACTH Reagent Wedge B ACTH Adjustors -

<u>IATA</u>

14.1 UN numberACTH Reagent Wedge A
ACTH Reagent Wedge BNot regulated.
Not regulated.

ACTH Adjustors UN3288

14.2 UN proper ACTH Reagent Wedge A - **Shipping name** ACTH Reagent Wedge B -

ACTH Adjustors Toxic solid, inorganic, n.o.s. (sodium azide)

14.3 Transport ACTH Reagent Wedge A - ACTH Reagent Wedge B - ACTH Adjustors 6.1

14.4 Packing ACTH Reagent Wedge A group ACTH Reagent Wedge B ACTH Adjustors III

ACTH Adjustors III

14.5 ACTH Reagent Wedge A No.
Environmental ACTH Reagent Wedge B No.
hazards ACTH Adjustors No.

Additional ACTH Reagent Wedge A information ACTH Reagent Wedge B ACTH Adjustors -

14.6 Special precautions for : ACTH Reagent Wedge A user

ACTH Reagent Wedge B

ACTH Adjustors

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.

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.

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.

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 17/20

SECTION 14: Transport information

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

ACTH Reagent Wedge B ACTH Adjustors

: ACTH Reagent Wedge A

Not applicable. Not applicable. Not applicable.

and use of certain dangerous substances, mixtures and articles Other EU regulations

Europe inventory: Not determined.

Seveso II Directive

This product is controlled under the Seveso II Directive.

Danger criteria

Category

ACTH Adjustors

H2: Acute toxicity 2 any route of entry or Acute toxicity 3 Inhalation/Dermal route of entry

E2: Hazardous to the aquatic environment - Chronic 2

C2: Toxic

C9ii: Toxic for the environment

15.2 Chemical Safety Assessment

: This product contains substances for which Chemical Safety Assessments are still required.

SECTION 16: Other information

Indicates information that has changed from previously issued version.

Abbreviations and acronyms

: ATE = Acute Toxicity Estimate

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No.

1272/20081

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

ACTH Adjustors

Acute Tox. 4, H302 Acute Tox. 3, H311 Aguatic Chronic 2, H411 Calculation method Calculation method Calculation method

Date of issue/Date of revision : 5/6/2015. Date of previous issue : 3/11/2015. Version : 3 18/20

SECTION 16: Other information

Full text of abbreviated H statements

: ACTH Reagent Wedge

H319 Causes serious eye irritation.

ACTH Reagent Wedge

В

H319 Causes serious eye irritation.

ACTH Adjustors

H300 Fatal if swallowed.
H302 Harmful if swallowed.
H310 Fatal in contact with skin.
H311 Toxic in contact with skin.
H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

Full text of classifications [CLP/GHS]

: ACTH Reagent Wedge

Α

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

ACTH Reagent Wedge

В

Eye Irrit. 2, H319 SERIOUS EYE DAMAGE/ EYE IRRITATION - Category 2

ACTH Adjustors

Acute Tox. 1, H310 ACUTE TOXICITY: SKIN - Category 1
Acute Tox. 2, H300 ACUTE TOXICITY: ORAL - Category 2
Acute Tox. 3, H311 ACUTE TOXICITY: SKIN - Category 3
Acute Tox. 4, H302 ACUTE TOXICITY: ORAL - Category 4
Aquatic Acute 1, H400 ACUTE AQUATIC HAZARD - Category 1
Aquatic Chronic 1, H410 LONG-TERM AQUATIC HAZARD - Category 1
Aquatic Chronic 2, H411 LONG-TERM AQUATIC HAZARD - Category 2

Full text of abbreviated R phrases

R28- Very toxic if swallowed. R25- Toxic if swallowed.

R32- Contact with acids liberates very toxic gas.

R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in

the aquatic environment.

R51/53- Toxic to aquatic organisms, may cause long-term adverse effects in the

aquatic environment.

Full text of classifications [DSD/DPD]

T+ - Very toxic

T - Toxic

N - Dangerous for the environment

Date of printing

Date of issue/ Date of

revision

5/6/2015.5/6/2015.

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Notice to reader

To the best of our knowledge, the information contained herein is accurate. However, neither the abovenamed 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.

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Conforms to Regulation (EC) No. 1907/2006 (REACH), Annex II - United Kingdom (UK)

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