Safety data sheet

according to 1907/2006/EC, Article 31

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

- · 1.1 Product identifier
- · Trade name: <u>cAMP ELISA kit</u>
- · Synonyms: cyclic AMP
- · Article number: 74-AMPHU-E01/E05
- <u>1.2 Relevant identified uses of the substance or mixture and uses advised against</u> No further relevant information available.
- · Application of the substance / the preparation: Laboratory chemicals
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier: ALPCO 26 Keewaydin Drive, Unit G Salem, NH 03079 U.S.A. cs@alpco.com
- Further information obtainable from: Customer service During normal business hours. +800 592 5726
- <u>1.4 Emergency telephone number:</u> U.S. +1 800-255-3924 International +01-813-248-0585

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture
 Classification according to Regulation (EC) No 1272/2008
- GF

GHS08 health hazard

Carc. 1A H350 May cause cancer.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

GHS05 corrosion

Skin Corr. 1CH314Causes severe skin burns and eye damage.Eye Dam. 1H318Causes serious eye damage.

GHS07 Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled.

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Skin Sens. 1B	H317 May cause an allergic skin reaction.
STOT SE 3	H335 May cause respiratory irritation.
· Additional info	
	d their hazardous ingredients:
0.87% 7647-14-	5 26628-22-8, 0.0016% 7733-02-0, 0.1% 7791-18-6, 0.68% 6131-90-4, 0.1% 9048-46-8,
	5 5 26628-22-8, 0.0016% 7733-02-0, 0.68% 6131-90-4, 0.1% 7791-18-6, 0.87% 7647-14-
5, 0.1% 9048-46	
	5 26628-22-8, 0.0016% 7733-02-0, 0.68% 6131-90-4, 0.1% 7791-18-6, 0.87% 7647-14-
5, 0.1% 9048-46	
	% 1185-53-1, 12.6% 7647-14-5, 2.2% 77-86-1, 1.0% 9005-64-5, 0.002% 26172-55-4,)-4, 0.0035% 8001-54-5
	64-17-5, 0.2800% 7558-80-7, 0.04% 7782-85-6
80-0075: <12.2	
	0101-89-0, 0.09% 26628-22-8
80-0063: 99.5%	
80-0064: 98% 1	08-24-7
· 2.2 Label eleme	
	rding to Regulation (EC) No 1272/2008:
· Hazard pictogr	lassified and labelled according to the CLP regulation.
<u> </u>	
GHS05 GHS0	07 GHS08
· Signal word: D	anger
· Hazard-determ	ining components of labelling:
triethylamine	anng components of abening.
diethanolamine	
acetic anhydride	
ethanol	
· Hazard stateme	nyl-4-isothiazolin-3-one
	mful if swallowed or if inhaled.
	uses severe skin burns and eye damage.
	y cause an allergic skin reaction.
	y cause cancer.
	y cause respiratory irritation.
H373 Mag • Precautionary	y cause damage to organs through prolonged or repeated exposure.
P260	Do not breathe dust/fume/gas/mist/vapours/spray.
	53 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with
	water/shower.
P305+P351+P3	38 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact
D210	lenses, if present and easy to do. Continue rinsing.
P310 P405	Immediately call a POISON CENTER/doctor. Store locked up.
P501	Dispose of contents/container in accordance with local/regional/national/international
	regulations.
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- · 2.3 Other hazards
- Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- · **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

· 3.2 Chemical characterisation: Mixtures

· Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous components:					
CAS: 1185-53-1 EINECS: 214-684-5	TRIS-HCI Skin Irrit. 2, H315; Eye Irrit. 2, H319; STOT SE 3, H335	12,6%			
CAS: 111-42-2 EINECS: 203-868-0 Index number: 603-071-00-1	diethanolamine Carc. 2, H351; STOT RE 2, H373; O Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315	<12,2%			
CAS: 121-44-8 EINECS: 204-469-4 Index number: 612-004-00-5	triethylamine ♦ Flam. Liq. 2, H225; <> Skin Corr. 1A, H314; ♦ Acute Tox. 4 H302; Acute Tox. 4, H312; Acute Tox. 4, H332	, 99,5% ,			
CAS: 108-24-7 EINECS: 203-564-8 Index number: 607-008-00-9	acetic anhydride Flam. Liq. 3, H226; I Skin Corr. 1B, H314; I Acute Tox. 4 H302; Acute Tox. 4, H332	98,5% ,			
CAS: 26172-55-4 EINECS: 247-500-7	5-Chloro-2-methyl-4-isothiazolin-3-one Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331; Skin Corr. 1B, H314; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Sens. 1, H317	0,002%			
CAS: 10101-89-0 EINECS: 231-509-8	trisodium phosphate dodecahydrate Skin Corr. 1B, H314; () Acute Tox. 4, H312; Acute Tox. 4, H332	10,0%			
CAS: 26628-22-8 EINECS: 247-852-1 Index number: 011-004-00-7	sodium azide Acute Tox. 2, H300; Aquatic Acute 1, H400; Aquatic Acute 1, H400; Aquatic Acute 1, H410	0,09%			
CAS: 7733-02-0 EINECS: 231-793-3 Index number: 030-006-00-9	zinc sulphate (anhydrous) Eye Dam. 1, H318; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Acute Tox. 4, H302	0,0016%			
CAS: 9005-64-5 NLP: 500-018-3	Polyethylene glycol sorbitan monolaurate Skin Irrit. 2, H315; Eye Irrit. 2, H319	1,0%			

· Additional information:

For lyophilized materials containing hazardous substances, percent hazardous material determination based on pre-lyophilized volume.

For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

<u>4.1 Description of first aid measures</u>

• After inhalation: In case of unconsciousness place patient stably in side position for transportation.

· After skin contact: Immediately wash with water and soap and rinse thoroughly.

· After eye contact:

Rinse opened eye for several minutes under running water. Check for and remove contact lenses. If symptoms persist, consult a doctor.

• After ingestion: If symptoms persist consult doctor.

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· 4.2 Most important symptoms and effects, both acute and delayed

- No further relevant information available.
- **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available.

SECTION 5: Firefighting measures

- · 5.1 Extinguishing media
- Suitable extinguishing agents:
- CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment:

Wear self-contained respiratory protective device.

Do not inhale explosion gases or combustion gases.

Wear fully protective suit.

SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures:
- Wear protective clothing.
- 6.2 Environmental precautions: No special measures required.
- **<u>6.3 Methods and material for containment and cleaning up:</u>** Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust). Ensure adequate ventilation.
- **<u>6.4 Reference to other sections</u>** See Section 7 for information on safe handling. See Section 8 for information on personal protection equipment. See Section 13 for disposal information.

SECTION 7: Handling and storage

- 7.1 Precautions for safe handling: Ensure good ventilation/exhaustion at the workplace. Prevent formation of aerosols.
- · Information about fire and explosion protection: No special measures required.

· 7.2 Conditions for safe storage, including any incompatibilities

- · Storage:
- Requirements to be met by storerooms and receptacles: Store tightly sealed in a cool, dry and well ventilated location (see label for storage temperature and additional specific information).

Keep away from heat, sources of ignition and incompatibles such as oxidizing agents.

Information about storage in one common storage facility:

Do not store in warm environment or in contact with flammable or oxidizing substances.

• Further information about storage conditions: Keep container tightly sealed.

Store under lock and key and with access restricted to technical experts or their assistants only.

• 7.3 Specific end use(s) No further relevant information available.

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· Additional information about design of technical facilities: No further data; see item 7.

SECTION 8: Exposure controls/personal protection

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· 8.1 Control parameters

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· Ingredients with limit values that require monitoring at the workplace: 121-44-8 triethylamine IOELV Short-term value: 12,6 mg/m³, 3 ppm Long-term value: 8,4 mg/m³, 2 ppm Skin • Additional information: The lists valid during the making were used as basis. · 8.2 Exposure controls · Personal protective equipment: · General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin. · Respiratory protection: In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device. · Protection of hands: Protective gloves The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation Material of gloves The selection of the suitable gloves does not only depend on the material, but also on further marks of guality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. · Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. · Eye protection: Tightly sealed goggles (Contd. on page 6)

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SECTION 9: Physical and che	SECTION 9: Physical and chemical properties					
· 9.1 Information on basic physical and chemical properties						
- General Information						
· Appearance:	N.4. 101-1					
Form: Colour:	Multiple According to product specification					
· Odour:	Characteristic					
· Odour threshold:	Not determined.					
· pH-value:	Not determined.					
Change in condition						
Melting point/Melting range:	Undetermined.					
Boiling point/Boiling range:	Undetermined.					
· Flash point:	Not applicable.					
 Flammability (solid, gaseous): 	Not applicable.					
· Ignition temperature:						
Decomposition temperature:	Not determined.					
· Self-igniting:	Product is not selfigniting.					
· Danger of explosion:	Product does not present an explosion hazard.					
 Explosion limits: 						
Lower:	Not determined.					
Upper:	Not determined.					
· Vapour pressure:	Not determined.					
· Density:	Not determined.					
· Relative density	Not determined.					
· Vapour density	Not determined.					
· Evaporation rate	Not determined.					
Solubility in / Miscibility with						
water:	Not determined.					
· Partition coefficient (n-octanol/water): Not determined.						
· Viscosity:						
Dynamic:	Not determined.					
Kinematic:	Not determined.					
· 9.2 Other information	No further relevant information available.					

SECTION 10: Stability and reactivity

• 10.1 Reactivity No further relevant information available.

- **10.2 Chemical stability:** Stable. Avoid strong oxidizing agents.
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions: No dangerous reactions known.
- 10.4 Conditions to avoid: No further relevant information available.

• **<u>10.5 Incompatible materials:</u>** No further relevant information available.

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• 10.6 Hazardous decomposition products: No dangerous decomposition products known.

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity
- Harmful if swallowed or if inhaled. • Primary irritant effect:
- · Skin corrosion/irritation
- Causes severe skin burns and eye damage.
- Serious eye damage/irritation Causes serious eye damage.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- · CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- · Germ cell mutagenicity Based on available data, the classification criteria are not met.
- Carcinogenicity May cause cancer.
- **Reproductive toxicity** Based on available data, the classification criteria are not met.
- STOT-single exposure May cause respiratory irritation.
- STOT-repeated exposure

May cause damage to organs through prolonged or repeated exposure.

• Aspiration hazard Based on available data, the classification criteria are not met.

SECTION 12: Ecological information

· 12.1 Toxicity

- · Aquatic toxicity: No further relevant information available.
- **12.2 Persistence and degradability:** No further relevant information available.
- 12.3 Bioaccumulative potential: No further relevant information available.
- 12.4 Mobility in soil: No further relevant information available.
- 12.5 Results of PBT and vPvB assessment
- **PBT:** Not applicable.
- vPvB: Not applicable.
- <u>12.6 Other adverse effects</u> No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation:

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

- · Uncleaned packaging:
- · Recommendation:

All waste must be handled in accordance with local, state and federal regulations. This material and its container must be disposed of in a safe way.

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SECTION 14: Transport information	on
· <u>14.1 UN-Number</u> · ADR, IMDG, IATA	UN3316
 <u>14.2 UN proper shipping name</u> ADR IMDG IATA 	3316 CHEMICAL KIT mixture CHEMICAL KIT mixture Chemical kits mixture
· 14.3 Transport hazard class(es)	
· ADR, IMDG, IATA	
· Class · Label	9 Miscellaneous dangerous substances and articles 9
 <u>14.4 Packing group</u> ADR, IMDG, IATA 	II
 <u>14.5 Environmental hazards:</u> Marine pollutant: 	No
 14.6 Special precautions for user: Danger code (Kemler): Stowage Category 	Warning: Miscellaneous dangerous substances and articles. 80 A
• 14.7 Transport in bulk according to Anne MARPOL73/78 and the IBC Code:	ex II of Not applicable.
· Transport/Additional information:	
 ADR Limited quantities (LQ) Excepted quantities (EQ) Transport category Tunnel restriction code 	See SP251 Code: See 3 E
 IMDG Limited quantities (LQ) Excepted quantities (EQ) 	See SP251 Code: See SP340
·IATA	Dangerous Goods in Excepted Quantities as pe Special Provision A44/A163.
· UN "Model Regulation":	UN 3316 CHEMICAL KIT MIXTURE, 9, II

SECTION 15: Regulatory information

· <u>15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture</u>

No further relevant information available.

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• 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. For research use only. Not for drug, household or other uses.

Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H300 Fatal if swallowed.

H301 Toxic if swallowed.

H302 Harmful if swallowed.

H311 Toxic in contact with skin.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H332 Harmful if inhaled.

H335 May cause respiratory irritation.

H351 Suspected of causing cancer.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

· Department issuing MSDS: Customer service

· Contact: tel. +1 610-941-0430

· Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail) ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 2: Flammable liquids, Hazard Category 2 Flam. Liq. 3: Flammable liquids, Hazard Category 3 Acute Tox. 2: Acute toxicity, Hazard Category 2 Acute Tox. 3: Acute toxicity, Hazard Category 3 Acute Tox. 4: Acute toxicity, Hazard Category 4 Skin Corr. 1A: Skin corrosion/irritation, Hazard Category 1A Skin Corr. 1B: Skin corrosion/irritation, Hazard Category 1B Skin Corr. 1C: Skin corrosion/irritation, Hazard Category 1C Skin Irrit. 2: Skin corrosion/irritation, Hazard Category 2 Eye Dam. 1: Serious eye damage/eye irritation, Hazard Category 1 Eye Irrit. 2: Serious eye damage/eye irritation, Hazard Category 2 Skin Sens. 1: Sensitisation - Skin, Hazard Category 1 Skin Sens. 1B: Sensitisation - Skin, Hazard Category 1B Carc. 1A: Carcinogenicity, Hazard Category 1A Carc. 2: Carcinogenicity, Hazard Category 2 STOT SE 3: Specific target organ toxicity - Single exposure, Hazard Category 3

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STOT RE 2: Specific target organ toxicity - Repeated exposure, Hazard Category 2 Aquatic Acute 1: Hazardous to the aquatic environment - AcuteHazard, Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - Chronic Hazard, Category 1	(Contd. of page 9)
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