



Page: 1 of 5

Infosafe No™ RE-ISSUED by KINETIKP 3CHD1 Issue Date: December 2016

Product Name: **CYTOSPRAY**

Classified as hazardous

1. Identification

GHS Product CYTOSPRAY

Identifier

Address

Product Code

400

Company Name

Kinetik Pty Ltd (ABN 53 605 811 532) Unit 10, 12 - 16 Robart Court, Narangba

Queensland 4506 Australia

Telephone/Fax Number

Tel: 07 3203 0401 Fax: 07 3203 0421

Recommended use of the chemical and restrictions on use

Fixative and preservative for cytology smears.

Other Information

EMERGENCY CONTACT NUMBER: +61 07 3203 0401 Business hours: 8:30am to 5:00pm, Monday to Friday.

Kinetik Pty Ltd does not warrant that this product is suitable for any use or purpose. The user must ascertain the suitability of the product before use or application intended purpose. Preliminary testing of the product before use or application is recommended. Any reliance or purported reliance upon Kinetik Pty Ltd with respect to any skill or judgement or advice in relation to the suitability of this product of any purpose is disclaimed. Except to the extent prohibited at law, any condition implied by any statute as to the merchantable quality of this product or fitness for any purpose is hereby excluded. This product is not sold by description. Where the provisions of Part V, Division 2 of the Trade Practices Act apply, the liability of Kinetik Pty Ltd is limited to the replacement of supply of equivalent goods or payment of the cost of replacing the goods or acquiring equivalent goods.

2. Hazard Identification

GHS classification

of the

Eye Damage/Irritation: Category 2A Flammable Liquids: Category 2

substance/mixture

DANGER Signal Word (s)

Hazard Statement

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Pictogram (s) Flame, Exclamation mark,





Precautionary

Precautionary

Response

P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

P233 Keep container tightly closed. statement -

P240 Ground/bond container and receiving equipment. Prevention

P241 Use explosion-proof electrical/ventilating/lighting/.../equipment.

P242 Use only non-sparking tools.

P243 Take precautionary measures against static discharge.

P264 Wash thoroughly after handling.

P280 Wear protective gloves/protective clothing/eye protection/face protection. P303+P361+P353 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse

skin with water/shower. statement -

if present and easy to do. Continue rinsing.

P337+P313 If eye irritation persists: Get medical advice/attention.

P370+P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam for extinction.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses,

Precautionary statement - Storage

P403+P235 Store in a well-ventilated place. Keep cool.

Precautionary statement -**Disposal**

P501 Dispose of contents/container to an approved waste disposal plant.

Print Date: 31/01/2017 CS: 172





Page: 2 of 5

Infosafe No™ 3CHD1 Issue Date : December 2016 RE-ISSUED by KINETIKP

Product Name: CYTOSPRAY

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3. Composition/information on ingredients

Composition, information on ingredients

This is a commercial product whose exact ratio of components may vary slightly. Minor quantities of

other non hazardous ingredients are also possible.

Chemical Characterization

Liquid

Water

Characterization Ingredients

Ingestion

NameCASProportionHazard SymbolRisk PhraseEthyl alcohol64-17-595 %Polyethylene glycol25322-68-32.5 %

2.5 %

4. First-aid measures

Inhalation If inhaled, remove from contaminated area to fresh air immediately. Apply artificial respiration if not

7732-18-5

breathing. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear. Rinse mouth thoroughly with water immediately, repeat until all traces of product have been removed.

DO NOT INDUCE VOMITING. Seek medical advice if effects persist.

Skin Wash affected areas with copious quantities of water immediately. Remove contaminated clothing and

wash before re-use. If swelling, redness, blistering or irritation occurs seek medical advice.

Eye contact Immediately irrigate with copious quantity of water for at least 15 minutes. Eyelids to be held open. If

rapid recovery does not occur, obtain medical attention Maintain eyewash fountain and safety shower in work area.

Advice to Doctor Treat symptomatically based on judgement of doctor and individual reactions of the patient.

Other Information For advice, contact a Poisons Information Centre (Phone eg Australia 13 1126; New Zealand 0800 764

766) or a doctor at once.

5. Fire-fighting measures

Hazards from Combustion

First Aid Facilities

Oxides of carbon.

Products
Specific Methods

Caution: Use of water spray when fighting fire may be inefficient.

Small fire: Use foam, dry chemical, CO2 or water spray.

Large fire: Use foam, fog or water spray - Do not use water jets.

If safe to do so, move undamaged containers from fire area. Cool containers with flooding quantities of

water until well after fire is out.

Specific hazards arising from the chemical HIGHLY FLAMMABLE: These products have a low flash point - Will be easily ignited by heat, sparks or flames at ambient temperatures. Vapours will form explosive mixtures with air. Vapours will travel to source of ignition and flash back. Fire may produce irritating, poisonous and/or corrosive gases. Containers may explode when heated. Many liquids are lighter than water. Many vapours are heavier than air and will collect in low or confined areas (drains, basements, tanks). Vapours from run-off may

create an explosion hazard.

Hazchem Code •2YE

Precautions in

SCBA and structural firefighter's uniform may provide limited protection. Fully-encapsulating, gas-tight

connection with Fire suits should be worn for maximum protection.

6. Accidental release measures

Spills & Disposal

ELIMINATE all ignition sources (no smoking, flares, sparks or flame) within at least 50m - All equipment used in handling the product must be earthed. Do not touch or walk through spilled material. Stop leak if safe to do so - Prevent entry into waterways, drains or confined areas. Vapour-suppressing foam may be used to control vapours. Absorb spill with earth, sand or other non-combustible material - Use clean, non-sparking tools to collect material and place it in loosely-covered metal or plastic containers for later disposal. Water spray may be used to knock down or divert vapour clouds.

SEEK EXPERT ADVICE ON HANDLING AND DISPOSAL.

Personal Evacuate the area of all non-essential personnel. Remove ignition sources

Precautions

Personal Protection Wear protective clothing specified for normal operations (see Section 8)

7. Handling and storage

Precautions for Safe Do not breathe vapour. Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated **Handling** exposure. Take precautionary measures against static discharges.

Print Date: 31/01/2017 CS: 1.7.2





Page: 3 of 5

Infosafe No™ Issue Date: December 2016 RE-ISSUED by KINETIKP 3CHD1

Product Name: **CYTOSPRAY**

Classified as hazardous

Conditions for safe storage, including

any incompatabilities

Keep in a cool, well-ventilated place Keep away from heat and other sources of ignition. Store away from oxidizing agents. Store away from strong acids. Keep containers securely sealed and protected against physical damage. Do not store in pits or basements where vapours may become entrapped. Do not store in aluminium containers. Take precautionary measures against static electricity discharges. Storage Regulations Refer Australian Standard AS 1940 - 1993 'The storage and handling of flammable and combustible

liauids'.

8. Exposure controls/personal protection

Exposure Controls, Personal Protection

No special equipment is usually needed when occasionally handling small quantities. The following instructions are for bulk handling or where regular exposure in an occupational setting occurs without

proper containment systems.

Occupational exposure limit values

Name STEL **TWA**

mg/m3 ppm mg/m3 ppm **Footnote**

Ethyl alcohol 1880 1000

Other Exposure Information

A time weighted average (TWA) has been established for Ethyl alcohol (Safe Work Australia) of 1,880 mg/m³, (1,000 ppm). The exposure value at the TWA is the average airborne concentration of a particular substance when calculated over a normal 8 hour working day for a 5 day working week. In industrial situations maintain the concentrations values below the TWA. This may be achieved by

Appropriate engineering controls process modification, use of local exhaust ventilation, capturing substances at the source, or other

methods.

Respiratory **Protection**

Where ventilation is not adequate, respiratory protection may be required. Avoid breathing vapours or mists. Select and use respirators in accordance with AS 1716 - Respiratory Protective Devices and be selected in accordance with AS 1715 - Selection, Use and Maintenance of Respiratory Protective Devices. When mists or vapours exceed the exposure standards then the use of the following is recommended: Approved respirator with organic vapour and dust/mist filters. Filter capacity and

respirator type depends on exposure levels.

Eve Protection The use of a face shield, chemical goggles or safety glasses with side shield protection as appropriate.

Must comply with Australian Standards AS 1337 and be selected and used in accordance with AS 1336.

Hand protection should comply with AS 2161, Occupational protective gloves - Selection, use and **Hand Protection**

maintenance. Recommendation: PVC, neoprene, or nitrile rubber gloves.

Personal Protective Equipment

Body Protection

Final choice of personal protective equipment will depend on individual circumstances and/or according

to risk assessments undertaken.

Footwear Safety boots in industrial situations is advisory, foot protection should comply with AS 2210,

Occupational protective footwear - Guide to selection, care and use. Recommendation: Rubber boots. Flame retardant protective clothing. Clean clothing or protective clothing should be worn, preferably with an apron. Clothing for protection against chemicals should comply with AS 3765 Clothing for Protection

Against Hazardous Chemicals.

Always wash hands before smoking, eating or using the toilet. Wash contaminated clothing and other **Hygiene Measures**

protective equipment before storing or re-using.

9. Physical and chemical properties

Liauid **Form**

Appearance Colourless, transparent, volatile liquid.

Odour Characteristic alcohol odour.

Melting Point -114 °C Ethanol **Boiling Point** 78.3 °C Ethanol

Solubility in Water Miscible. **Specific Gravity** Approx. 0.80

Approx 5.80 kPa at 20°C Ethanol Vapour Pressure

Coefficient Water/Oil -0.31 Ethanol

Distr.

Flash Point 12.7 °C - 95% Ethanol

Flammability HIGHLY FLAMMABLE. Keep away from heat, sparks or naked flames. Use flameproof equipment and

fittings to prevent flammability risk. Electrically link and ground metal containers for transfer of the product to prevent accumulation of static electricity. Ensure adequate ventilation to prevent an explosive

Print Date: 31/01/2017 CS: 172





Page: 4 of 5

Infosafe No™ 3CHD1 Issue Date : December 2016 RE-ISSUED by KINETIKP

Product Name: CYTOSPRAY

Classified as hazardous

vapour-air mixture. Vapours will travel considerable distances to sources of ignition.

Auto-Ignition

Approx 360°C

Temperature

Flammable Limits - 3.5% - 100% Ethanol

Lower

Flammable Limits - 19% - 100% Ethanol

Upper

10. Stability and reactivity

Chemical Stability Stable under normal use conditions.

Conditions to Avoid Heat, sparks, flame and build-up of static electricity.

Incompatible Materials Oxidising agents, peroxides, acids, acid chlorides, acid anhydrides, alkali metals and ammonia.

Hazardous Decomposition May liberate toxic fumes in fire producing carbon monoxide and or carbon dioxide.

Products Hazardous

lazardous Will not occur.

Polymerization

11. Toxicological Information

Ingestion May cause nausea, vomiting, headache, dizziness, gastric irritation and CNS depression.

Inhalation Irritating to the mucous membranes and respiratory tract. Risk of absorption. May cause headaches,

dizziness, nausea and possible CNS effects.

Skin May cause irritation. Will have a degreasing action on the skin.

Eye May cause irritation and watering. High concentrations of vapours may cause irritation.

Carcinogenicity Ethanol [61-17-5] in alcoholic beverages are evaluated in the IARC Monographs (Vol. 96) as Group 1:

Carcinogenic to humans, (based on effects of drinking alcoholic beverages).

Safe Work Australia does not classify ethanol as a carcinogen.

Health Hazard The long term health effects of alcohol are well known. As this product is a laboratory reagent sold in

small packages, it is unlikely that it will be ingested in quantities sufficient to cause long term problems,

although it may contribute to alcohol abuse if ingested frequently.

Though ethanaol is rapidly oxidized in the body and is therefore non-cumulative, ingestion of even moderate amounts causes lowering of inhibitions, often succeeded by dizziness, headache, or nausea.

Larger intake causes loss of motor nerve control, shallow respiration, and in extreme cases

unconsciousness and even death. Degree of intoxication is determined by concentration of alcohol in the brain. Of primary importance is the fact that intake of moderate amounts together with barbiturates or

similar drugs is extremely dangerous and may even be fatal.

Chronic Effects Repeated or prolonged skin contact may cause chronic dermatitis. May cause liver and kidney

disorders.

Mutagenicity No evidence of mutagenic properties.

12. Ecological information

Persistence and degradability

Readily biodegradable.

Bioaccumulative

Low probability of bioaccumulation (log P(o/w) < 1).

Potential Short Summary of

No ecological problems are to be expected when the product is handled and used with due care and

Assessment of Environmental

attention.

Impact

Information

13. Disposal considerations

Disposal Whatever cannot be saved for recovery or recycling should be disposed of according to relevant local, state and federal government regulations.

14. Transport information

Transport Dangerous goods of Class 3 (Flammable Liquid) are incompatible in a placard load with any of the

following:

Class 1, Class 2.1, if both the Class 3 and Class 2.1 dangerous goods are in bulk, Class 2.3, Class 4.2,

Print Date: 31/01/2017 CS: 1.7.2





Page: 5 of 5

Infosafe No™ RE-ISSUED by KINETIKP 3CHD1 Issue Date: December 2016

Product Name: **CYTOSPRAY**

3

Classified as hazardous

Class 5, Class 6, if the Class 3 dangerous goods are nitromethane, Class 7.

U.N. Number

UN proper shipping ETHANOL (ETHYL ALCOHOL)

name

Transport hazard

class(es)

•2YE **Hazchem Code Packaging Method** 3.8.3RT1 Packing Group Ш

EPG Number 3A1 **IERG Number** 14

15. Regulatory information

Regulatory

All of the significant ingredients in this formulation are compliant with NICNAS regulations.

Information

Poisons Schedule Not Scheduled

16. Other Information

Date of preparation or last revision of SDS

Date SDS preparation 22/12/2016 and is valid for 5 years from this date.

Literature References 'Standard for the Uniform Scheduling of Medicines and Poisons No. 15', Commonwealth of Australia,

Lewis, Richard J. Sr. 'Hawley's Condensed Chemical Dictionary 13th. Ed.', Rev., John Wiley and Sons,

Inc., NY, 1997.

National Road Transport Commission, 'Australian Code for the Transport of Dangerous Goods by Road and Rail 7th. Ed.', 2007.

Safe Work Australia, 'National Code of Practice fot the Preparation of Safety Data Sheets for Hazardous Chemicals', 2011.

Standards Australia, 'SAA/SNZ HB 76:2010 Dangerous Goods - Initial Emergency Response Guide', Standards Australia/Standards New Zealand, 2010.

Safe Work Australia, 'Approved Criteria for Classifying Hazardous Substances [NOHSC:1008 (2004)]'.

Safe Work Australia, 'Hazardous Substances Information System, 2005'.

Safe Work Australia, 'National Code of Practice for the Labelling of Safe Work Hazardous Substances Safe Work Australia, 'National Exposure Standards for Atmospheric Contaminants in the Occupational

Environment [NOHSC:1003(1995) 3rd Edition]'.

Contact Person/Point

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Print Date: 31/01/2017 CS: 172