

The followed Material Safety Data Sheet is based on the analysis of the reagent component.

Part I Diluent (M-30D)

1 Identification of the substance / preparation and of the company	
Information of the substance or preparation	
Trade name	DILUENT (M-30D)
Information about the manufacturer / supplier	
Manufacturer	SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD Mindray Building, Keji 12 th Road South, Hi-tech Industrial Park, Nanshan, Shenzhen, P.R. China, 508057 Tel:+86 755 26582888 / Fax:+86 755 26582680
Enquiry point	Research & Development Department, Tel:+86 755 26582888 Fax:+86 755 26582680 Reagent Production, Tel: +86 75586159296 / Fax:+86 755 86159297
Distributor	n.a.
Enquiry point	n.a.

2 Composition / information on ingredients	
Synonyms	Diluent to be used with Mindray hematology analyzer BC-3000Plus /BC-3200 /BC-3000CT.
DILEUNT (M-30D) contains	Sodium Sulphate Anhydrous 7.5-11.5g/L Sodium Chloride 3.5-5.5g/L Buffering Agents 1.0-3.0g/L Anti-fungal and Anti-bacterial Agents 0.8-2.5g/L
Hazardous ingredients	n.a.

3 Possible hazards	
n.a.	

4 First-aid measures	
After skin contact	Rinse contacted area with water. Remove any contaminated clothes.
After eye contact	Flush with plenty of water.
After ingestion	Drink lots of water, induce vomiting. Contact a physician.

5 Fire-fighting measures	

Suitable extinguishing methods	In accordance with those identified by the surroundings.
Special exposure hazards	Unknown
Additional information	Not inflammable

6 Accidental release measures	
Personal precautions	Wear gloves and laboratory coat. Prevent skin and eye contacting.
environmental precautions	keeping away from drains, surface- and ground-water and soil
Methods for cleaning up	Use of absorbent material which should be disposed of in a dustbin. Clean with plenty of water.

7 Handling and storage	
Handling	n.a.
Storage	Store at 2-30°C, tightly closed in a dark and cool place.

8 Exposure controls / personal protection	
Workplace-related threshold limits	n.a.
Personal protection	
Respiratory protection	Not necessary
Hand protection	Standard laboratory latex or rubber gloves recommended.
Eye protection	Standard laboratory safety glasses recommended.

9 Physico-chemical properties	
Form	Liquid
Color	Colourless
Odour	Odourless
pH-value	(20 °C) 6.85-7.25
Melting point	0 °C
Boiling point	100 °C
Flash point	n.a.
Ignition	n.a.

temperature	
Explosion limits	Lower: n.a. Upper: n.a.
Oxidizing properties	n.a.
Vapour pressure	n.a.
Density	(20 °C) 1.003 - 1.023 g/ml
Solubility in water	(20 °C) soluble
Fat solubility	n.a.

10 Stability and reactivity	
Conditions to avoid	Frozen, high temperature (above 30°C) , light
Materials to avoid	None identified
Hazardous decomposition products	Not determined

11 Toxicological information	
Acute toxicity	No experimental data for this preparation available.
Sub-acute to chronic toxicity	No experimental data for this preparation available.
Additional toxicological information	
Expected properties caused by components of the preparation	
After skin contact	Irritation
After eye contact	Irritation
After ingestion	Irritation
General remarks	If used properly the preparation will not cause hazardous effects.

12 Ecological information	
Information about elimination (persistence and degradability)	No information available
Behaviour in environmental compartments	No information available
Ecotoxicological	No information available

effects:	
Further information relating to ecology	No information available

13 Disposal considerations	
Product	In the EU there are no uniform regulations regarding disposal of chemicals and chemical waste. Items which should be disposed of are generally treated as special waste. Its disposal is regulated by laws or ordinances in EU countries. Please contact the responsible office (authority or waste management company) to get detailed information on disposal.
Packing	Disposal according to the authorities' recommendation.

14 Transport information	
Transport / further information	This preparation does not represent a dangerous item with regard to any mode of transport.

15 Regulations	
Labelling according to the EU Directives	Preparation not classified.

16 Other information	
Date of last revision: 12-Jun-06 10-Aug-04	Replaces edition of
Information of this Safety Data Sheet represents the today's state of our knowledge. The purpose is to characterise the product regarding safety precautions having to be kept. This document will not be a certification of features and will not be the basis of a legal contract.	

Part II E-Z CLEANSER(M-30E) & RINSE(M-30R)

1 Identification of the substance / preparation and of the company	
Information of the substance or preparation	
Trade name	E-Z CLEANSER (M-30E) RINSE (M-30R)
Information about the manufacturer / supplier	
Manufacturer	SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD Mindray Building, Keji 12 th Road South, Hi-tech Industrial Park, Nanshan, Shenzhen, P.R. China, 508057 Tel:+86 755 26582888 / Fax:+86 755 26582680
Enquiry point	Research & Development Department, Tel:+86 755 26582888 / Fax:+86 755 26582680 Reagent Production, Tel.: +86 75586159296 / Fax:+86 755 86159297
Distributor	n.a.
Enquiry point	n.a.

2 Composition / information on ingredients	
Synonyms	Detergent, Cleanser
M-30E contains	Proteolytic Enzyme 3.0-10g/L Surfactant 0.3-1.5g/L Sodium Chloride 3.0-5.0g/L Anti-fungal and Anti-bacterial Agents 0.5-2.5g/L Buffering Agents 1.0-4.0g/L
M-30R contains	Sodium Sulfate Anhydrous 3.5-5.5g/L Sodium Chloride 7.5-11.5g/L Anti-fungal and Anti-bacterial Agents 1.0-3.0 g/L Polyoxyethylene Ester 0.3-1.5g/L
Hazardous ingredients	n.a.

3 Possible hazards	
n.a.	

4 First-aid measures	
After skin contact	Rinse contacted area with large amounts of water. Dab with PEG 400. Remove any contaminated clothes.

After eye contact	Flush with copious amounts of water keeping eyelid open (>10 min.). Contact a physician immediately.
After inhalation	Remove to fresh air. If symptoms persist contact a physician.
After ingestion	Drink lemon juice, vinegar, or eggs in milk. Contact a physician immediately

5 Fire-fighting measures	
Suitable extinguishing methods	In accordance with those identified by the surroundings.
Special exposure hazards	None
Additional information	Not inflammable

6 Accidental release measures	
Personal precautions	Wear gloves and laboratory suit. Do not get in eyes, on skin, on clothing. Avoid breathing vapour.
environmental precautions	keeping away from drains, surface- and ground-water and soil.
Methods for cleaning up	Use of absorbent material which should be disposed of in a dustbin. Clean with plenty of water.

7 Handling and storage	
Handling	n.a.
Storage	Keep at 2-30°C, tightly closed in a dark and cool place.

8 Exposure controls / personal protection	
Workplace-related threshold limits	n.a.
Personal protection	
Respiratory protection	Necessary, if vapours / aerosols are released.
Hand protection	Standard laboratory latex or rubber gloves.
Eye protection	Standard laboratory safety glasses recommended.

9 Physico-chemical properties	
Form	liquid

Colour	Yellowish-green
Odour	Slightly pungent
pH value	(20 °C) M-30E 6.50-7.50 M-30R 6.0-8.0
Melting point	n.a.
Boiling point	100 °C
Flash point	n.a.
Ignition temperature	n.a.
Explosion limits	Lower: n.a. Upper: n.a.
Oxidizing properties	n.a.
Vapour pressure	n.a.
Density	(20 °C) 1.06 – 1.25 g/ml
Solubility in water	(20 °C) soluble
Fat solubility	n.a.

10 Stability and reactivity	
Conditions to avoid	Frozen, High temperature (above 30°C)
Materials to avoid	Acids, ammonia, reducing agents
Hazardous decomposition products	n.a.

11 Toxicological information	
Acute toxicity	No experimental data for these preparations available.
Sub-acute to chronic toxicity	No experimental data for these preparations available.
Additional toxicological information	
Expected properties caused by components of the preparations	
After inhalation	Irritation
After skin contact	Irritation
After eye contact	Irritation
After ingestion	Irritation
General remarks	More hazardous effects can not be excluded.

12 Ecological information	
Information about elimination (persistence and degradability)	No information available
Behaviour in environmental compartments	No information available
Ecotoxicological effects:	No information available
Further information relating to ecology	No information available

13 Disposal considerations	
Product	May be dilute with large amounts of water and washed into the sewer system.
Packing	Disposal according to the authorities' recommendation.

14 Transport information	
Transport / further information	This preparation does not represent a dangerous item with regard to any mode of transport.

15 Regulations	
Labeling according to the EU	Preparation not classified.

16 Other information	
Date of last revision: 12-Jun-06 10-Aug-04	Replaces edition of
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Part III LYSE (M-30CFL)

1 Identification of the substance / preparation and of the company	
Information of the substance or preparation	
Trade name	LYSE (M-30CFL)
Information about the manufacturer / supplier	
Manufacturer	SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD Mindray Building, Keji 12th Road South, Hi-tech Industrial Park, Nanshan, Shenzhen, P.R. China, 508057 Tel:+86 755 26582888 / Fax:+86 755 26582680
Enquiry point	Research & Development Department, Tel:+86 755 26582888 / Fax:+86 755 26582680 Reagent Production, Tel.: +86 75586159296 / Fax:+86 755 86159297
Distributor	n.a.
Enquiry point	n.a.

2 Composition / information on ingredients											
Synonyms	Lysing reagent to be used performing hemoglobin analysis with MINDRAY hematology analyzers.										
M-30CFL contains	<table> <tbody> <tr> <td>Quaternary Ammonium Salts</td> <td><50g/L</td> </tr> <tr> <td>Nonionic Surfactant</td> <td><15g/L</td> </tr> <tr> <td>Ferrocyanide</td> <td><0.5g/L</td> </tr> <tr> <td>Isopropanol</td> <td>0.1-1.5ml/L</td> </tr> <tr> <td>Ethanol</td> <td><1.5ml/L</td> </tr> </tbody> </table>	Quaternary Ammonium Salts	<50g/L	Nonionic Surfactant	<15g/L	Ferrocyanide	<0.5g/L	Isopropanol	0.1-1.5ml/L	Ethanol	<1.5ml/L
Quaternary Ammonium Salts	<50g/L										
Nonionic Surfactant	<15g/L										
Ferrocyanide	<0.5g/L										
Isopropanol	0.1-1.5ml/L										
Ethanol	<1.5ml/L										
Hazardous ingredients	n.a.										

3 Possible hazards	
Ingestion	Toxic, poisonous
Inhalation	Irritant
Skin Contact	Irritant
Skin Absorption	Unknown
Eye Contact	Irritant

4 First-aid measures	
After skin contact	Rinse contacted area with water. Remove any contaminated clothes.
After eye contact	Rinse immediately with plenty of water keeping eyelid open. Contact

	a physician immediately.
After ingestion	Drink plenty of water, induce vomiting, and seek medical advice immediately.
After inhalation	Remove to fresh air.

5 Fire-fighting measures	
Suitable extinguishing methods	In accordance with those identified by the surroundings.
Special exposure hazards	Unknown
Additional information	Not inflammable

6 Accidental release measures	
Personal precautions	Wear gloves and laboratory coat. Do not get in eyes, on skin, on clothing.
Environmental precautions	keeping away from drains, surface- and ground-water and soil
Methods for cleaning up	Use of absorbent material (e.g. silica) which should be disposed of in a dustbin. Clean with plenty of water.

7 Handling and storage	
Handling	n.a.
Storage	Store at 2-30 °C, tightly closed in a dark and cool place.

8 Exposure controls / personal protection	
Workplace-related threshold limits	n.a.
Personal protection	
Respiratory protection	Not necessary
Hand protection	Standard laboratory latex or rubber gloves recommended.
Eye protection	Standard laboratory safety glasses recommended.

9 Physico-chemical properties	
Form	Liquid
Color	Colourless

Odour	Slight
pH value	n.a.
Melting point	n.a.
Boiling point	n.a.
Flash point	n.a.
Ignition temperature	n.a.
Explosion limits	lower: n.a. upper: n.a.
Density	(20 °C) 1.03~1.25
Solubility in water	(20 °C) soluble
Fat solubility	n.a.

10 Stability and reactivity	
Conditions to avoid	None determined
Materials to avoid	None identified
Hazardous decomposition products	Not determined

11 Toxicological information	
Acute toxicity	No experimental data for these preparations available.
Calculated from the concentration of the ingredient	LD50 (oral, mouse)
M-30CFL	3600mg/kg for Isopropanol
Sub-acute to chronic toxicity	No experimental data for these preparations available.
Additional toxicological information	
Expected properties caused by components of the preparations	
After skin contact	irritation
After eye contact	irritation
After ingestion	Wash mouth with plenty of water, seek medical attention
General remarks	More hazardous effects can not be excluded. Handle the product with care usual for chemicals.

12 Ecological information	
Information about	No information available

elimination (persistence and degradability)	
Behaviour in environmental compartments	No information available
Ecotoxicological effects:	No information available
Further information relating to ecology	n.a. Do not discard to inshore waters, sink or ground.

13 Disposal considerations	
Product	In the EU there are no uniform regulations regarding disposal of chemicals and chemical waste. Items which should be disposed of are generally treated as special waste. Its disposal is regulated by laws or ordinances in EU countries. Please contact the responsible office (authority or waste management company) to get detailed information on disposal.
Packing	Disposal according to the authorities' recommendation.

14 Transport information	
Transport / further information	This preparation does not represent a dangerous item with regard to any mode of transport.

15 Regulations	
Labelling according to the EU Directives	Preparation not classified.

16 Other information	
Date of last revision: 12-Jun-06	Replaces edition of 10-Aug-04
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Part IV PROBE CLEANSER (M-30P)

1 Identification of the substance / preparation and of the company	
Information of the substance or preparation	
Trade name	PROBE CLEANSER (M-30P)
Information about the manufacturer / supplier	
Manufacturer	SHENZHEN MINDRAY BIO-MEDICAL ELECTRONICS CO., LTD Mindray Building, Keji 12 th Road South, Hi-tech Industrial Park, Nanshan, Shenzhen, P.R. China, 508057 Tel:+86 755 26582888 / Fax:+86 755 26582680
Enquiry point	Research & Development Department, Tel:+86 755 26582888 / Fax:+86 755 26582680 Reagent Production, Tel.: +86 75586159296 / Fax:+86 755 86159297
Distributor	n.a.
Enquiry point	n.a.

2 Composition / information on ingredients	
Synonyms	Detergent or bleach
PROBE CLEANSER (M-30P) contains	Surfactant <2.0g/L Sodium hypochlorous <100 g/L Sodium hydroxide <100 g/L
Hazardous ingredients	
Name	Sodium Hypochlorite
Content	<10.0 % (active Cl ₂)
R-phrases	31-34 Contact with acids liberates toxic gas. Causes burns.

3 Possible hazards	
Contact with acids liberates toxic gas. Causes burn.	

4 First-aid measures	
After skin contact	Rinse contacted area with large amounts of water. Dab with PEG 400. Remove any contaminated clothes.
After eye contact	Flush with copious amounts of water keeping eyelid open (>10 min.). Contact a physician immediately.
After inhalation	Remove to fresh air. If symptoms persist contact a physician.
After ingestion	Drink lemon juice, vinegar, or eggs in milk, avoid vomiting. Contact

	a physician immediately.
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5 Fire-fighting measures	
Suitable extinguishing methods	In accordance with those identified by the surroundings.
Special exposure hazards	None
Additional information	Not inflammable

6 Accidental release measures	
Personal precautions	Wear gloves and laboratory suit. Do not get in eyes, on skin, on clothing. Avoid breathing vapour.
environmental precautions	keeping away from drains, surface- and ground-water and soil
Methods for cleaning up	Use of absorbent material, which should be disposed of in a dustbin. Clean with plenty of water.

7 Handling and storage	
Handling	n.a.
Storage	Store at 2-30°C, tightly closed in a dark and cool place.

8 Exposure controls / personal protection	
Workplace-related threshold limits	n.a.
Personal protection	
Respiratory protection	Necessary, if vapours / aerosols are released.
Hand protection	Standard laboratory latex or rubber gloves.
Eye protection	Standard laboratory safety glasses recommended.

9 Physico-chemical properties	
Form	Liquid
Colour	Yellowish-green
Odour	Slightly pungent
pH value	(20 °C) 10.0-13.8
Melting point	n.a.
Boiling point	100 °C

Flash point	n.a.
Ignition temperature	n.a.
Explosion limits	Lower: n.a. Upper: n.a.
Density	(20 °C) 1.05 – 1.25 g/ml
Solubility in water	(20 °C) soluble
Fat solubility	n.a.

10 Stability and reactivity	
Conditions to avoid	None determined
Materials to avoid	Acids, ammonia, reducing agents
Hazardous decomposition products	Chlorine

11 Toxicological information	
Acute toxicity	No experimental data for these preparations available.
Sub-acute to chronic toxicity	No experimental data for these preparations available.
Additional toxicological information	
Expected properties caused by components of the preparations	
After inhalation	Irritation, cough, difficulty in breathing
After skin contact	Irritation
After eye contact	Irritation, danger of going blind
After ingestion	Irritation of mucous membranes, danger of perforation
General remarks	More hazardous effects can not be excluded. Handle the product with care usual for chemicals.

12 Ecological information	
Information about elimination (persistence and degradability)	No information available
Behaviour in environmental compartments	No information available
Ecotoxicological	No information available

effects:	
Further information relating to ecology	Do not discard to inshore waters, sink or ground.

13 Disposal considerations	
Product	In the EU there are no uniform regulations regarding disposal of chemicals and chemical waste. Items, which should be disposed of, are generally treated as special waste. Its disposal is regulated by laws or ordinances in EU countries. Please contact the responsible office (authority or waste management company) to get detailed information on disposal.
Packing	Disposal according to the authorities' recommendation.

14 Transport information	
Transport / further information	This preparation does not represent a dangerous item with regard to any mode of transport.

15 Regulations	
Labelling according to the EU Directives	Preparation not classified.
Letter code	Xi Irritant
R-phrases	31-36/38 Contact with acids liberates toxic gas. Irritating to eyes and skin.
S-phrases	26-28-36/37/38 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water. Wear suitable protective clothes, gloves, and eye protection.

16 Other information	
Date of last revision:12-Jun-06	Replaces edition of
10-Aug-04	
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