

SAFETY DATA SHEET

RENISCHEM L-FABP ELISA High Sensitivity Kit

Version1 Revision Date:1/4/2016

RENISCHEM[®] L-FABP ELISA High Sensitivity Kit

Safety Data Sheet

This SDS document is made for the purpose of describing the details of the components below which are designated as hazardous materials in accordance with Article 18 (3)a of Regulation (EC) 1272/2008 (CLP: Classification Labelling and Packaging)

- Assay Buffer (Page 2 to 8)
- Standard Diluent (0ng/mL) (Page 2 to 8)
- L-FABP Standard (400ng/mL) (Page 2 to 8)
- Stop Solution (Page 9 to 14)

CMIC HOLDINGS Co., Ltd.

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Trade name: Assay Buffer
Standard Diluent (0ng/mL)
L-FABP Standard (400ng/mL)

Use of preparation For In Vitro Diagnostic Use

SYNONYMS: None

Manufacturer: CMIC HOLDINGS Co., Ltd.
Hamamatsucho Bldg.,1-1-1 Shibaua, Minato-ku Tokyo 105-0023, JAPAN

Emergency information: L-FABP Business Department
Mass Bldg. 2F, 2-16-10 Yushima, Bunkyo-ku Tokyo 113-0034, JAPAN
TEL PHONE: +81-3-6779-8017 FAX:+81-3-3830-5455 E-mail:l-fabp@cmic.co.jp

Inquiry: <https://www.fabp.jp/132.php>

The other emergency information:
Emergo Europe
Molenstraat 15, 2513 BH The Hague, The Netherlands

SECTION 2: HAZARDS IDENTIFICATION

Assay Buffer, Standard Diluent (0ng/mL) and L-FABP Standard (400ng/mL) contain sodium azide as a preservative (0.1% w/v, 0.05% w/v and 0.05% w/v, respectively).

Information pertaining to special danger for human and environment.

HAZARDOUS COMPONENTS: Sodium azide

CLASSIFICATION ACCORDING TO REGULATION (EC) No 1272/2008 [CLP]: Acute Tox.2, Aquatic Acute 1, Aquatic Chronic 1



SIGNAL WORD: Danger

HAZARD STATEMENTS:

H300: Fatal if swallowed.

H400: Very toxic to aquatic life.

H410: Very toxic to life with long lasting effects.

PRECAUTIONARY STATEMENTS:

P264: Wash hands thoroughly after handling.

P273: Avoid release to the environment.

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.

P330: Rinse mouth.

P501: Dispose of contents/container to the waste disposer authorized by prefectural governor.

SUPPLEMENTAL HAZARD INFORMATION:

EUH032: Contact with acids liberates very toxic gas.

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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENT

CAS No	EC No	Index No	% [weight]	Name	Classification according to Regulation (EC) No 1278/2008 (CLP)
26628-22-8	247-852-1	011-004-00-7	0.1% (Buffer solution)	Sodium azide	Acute Tox.2 , Aquatic Acute 1, Aquatic, Chronic 1
26628-22-8	247-852-1	011-004-00-7	0.05% (Standard diluent(0ng/mL))	Sodium azide	Acute Tox.2 , Aquatic Acute 1, Aquatic, Chronic 1
26628-22-8	247-852-1	011-004-00-7	0.05% (L-FABP Standard(400ng/mL))	Sodium azide	Acute Tox.2 , Aquatic Acute 1, Aquatic, Chronic 1

SECTION 4: FIRST AID MEASURES

GENERAL ADVICE: Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

IF INHALED: Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

IN CASE OF SKIN CONTACT: Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

IN CASE OF EYE CONTACT: Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

IF SWALLOWED: Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

SUITABLE EXTINGUISHING MEDIA: Carbon dioxide, dry chemical powder, foam, water.

UNSUITABLE EXTINGUISHING MEDIA: None

HAZARDS COMBUSTION PRODUCTS: Toxic, irritating dust or smoke may be emitted.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS: Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes. In case of emergency, evacuate the danger area or to consult an expert.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering sewers, watercourses or low areas.

METHODS FOR CLEAN UP: Do not touch spilled material without suitable protection (See section 8). After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection.

STORAGE: Store away from sunlight in a cool (2-8 °C=35.6-46.4 °F) well-ventilated dry place. Keep container tightly closed.

INCOMPATIBLE PRODUCTS: Strong oxidizers

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.

VENTILATION : Local Exhaust; Necessary, Mechanical (General); Necessary Special; Closed system is recommended.

PERSONAL PROTECTION:

- Respiratory protection: NIOSH/MSHA or European Standard EN149 approved respirator
- Hand protection: Chemical resistant gloves
- Eye protection: Safety glasses (goggles)
- Skin protection: Protective clothing

HYGIENE MEASURES: Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

CONTROL PARAMETER : (1),(2); OSHA Final Limits: None established
ACGIH TLV(s): None established

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties in this section are applied as product itself.

Assay Buffer:

A PPEARANCE : Liquid

ODOR : Not available

ODOR THRESHOLD: Not available

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pH : 7.5
BOILING POINT : 100 °C (212 °F)
FREEZING POINT: Not available
EVAPORATION RATE: Not available
DECOMPOSITION TEMPERATURE: Not available
EXPLOSIVE LIMITS : Not available
VAPOR PRESSURE : Not available
VAPOR DENSITY: Notavailable
SPECIFIC GRAVITY : Not available
DECOMPOSITION TEMPERATURE: Not available
SOLUBILITY IN WATER : Soluble
log Po/w: Not available
EXPLOSIVE PROPERTIES: Not available
OXIDISING PROPERTIES: Not available

Standard Diluent (0ng/mL):

A PPEARANCE : Liquid
ODOR : Not available
ODOR THRESHOLD: Not available
pH : 7.4
BOILING POINT : 100 °C (212 °F)
FREEZING POINT: Not available
EVAPORATION RATE: Not available
DECOMPOSITION TEMPERATURE: Not available
EXPLOSIVE LIMITS : Not available
VAPOR PRESSURE : Not available
VAPOR DENSITY: Notavailable
SPECIFIC GRAVITY : Not available
DECOMPOSITION TEMPERATURE: Not available
SOLUBILITY IN WATER : Soluble
log Po/w: Not available
EXPLOSIVE PROPERTIES: Not available
OXIDISING PROPERTIES: Not available

L-FABP Standard (400ng/mL) :

A PPEARANCE : Liquid
ODOR : Not available
ODOR THRESHOLD: Not available
pH : 7.4
BOILING POINT : 100 °C (212 °F)
FREEZING POINT: Not available
EVAPORATION RATE: Not available
DECOMPOSITION TEMPERATURE: Not available
EXPLOSIVE LIMITS : Not available
VAPOR PRESSURE : Not available
VAPOR DENSITY: Notavailable
SPECIFIC GRAVITY : Not available

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DECOMPOSITION TEMPERATURE: Not available
SOLUBILITY IN WATER : Soluble
log Po/w: Not available
EXPLOSIVE PROPERTIES: Not available
OXIDISING PROPERTIES: Not available

SECTION 10: STABILITY AND REACTIVITY

Stability and reactivity in this section are applied as product itself.

REACTIVITY : Not self-reactive mixture
CHEMICAL STABILITY : The product is stable for 24 months under the recommended storage condition at ambient temperatures of 2 °C to 8 °C.
POSSIBILITY OF HAZARDOUS REACTIONS : Contact with acid liberates very toxic gas. The toxic hydrogen azide will be formed when it reacts with acid.
CONDITIONS TO AVOID : Sunlight, heat, open flames, high temperature, sparks, static electrical charge, other ignition sources
INCOMPATIBLE MATERIALS : Strong oxidizers, acids, heavy metals
HAZARDOUS DECOMPOSITION PRODUCTS : Nitrogen oxides, sodium oxide, explosive heavy metal azides.

SECTION 11: TOXICOLOGICAL INFORMATION

as Sodium azide:
ACUTE TOXICITY (oral/dermal/inhalation) :
LC50 (ihl, rat): 37mg/m³ (RTECS)
LD50 (skin, rabbit): 20mg/kg (RTECS)
TDLo (orl, man): 129µg/kg (RTECS)
SKIN CORROSION/IRRITATION : Animal; corrosive/4H (RTECS)
EYE DAMAGE/EYE IRRITATION : Not available
RESPIRATORY OR SKIN SENSITIZATION : Not available
GERM CELL MUTAGENICITY : Mutation in microorganisms; S.typhimurium; 30µg/plate (RTECS)
TOXIC TO REPRODUCTION : Not available
STOST-SINGLE EXPOSURE : Human; hypotensive action (remedy), side effect to respiratory organs and digestive organs (NITE GHS DATA)
STOST-REPEATED EXPOSURE : Human; hyper receptivity (ACGIH,2001)
Animal; 10mg/kg/day, the effect of liver
ASPIRATION TOXICITY : Not available
CARCINOGENICITY : TDLo (orl, rat): 2730mg/kg/78W-C (RTECS)
ADDITIONAL INFORMATION ;
NTP: Not listed
IARC: Not listed
OSHA: Not listed

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ACGIH: Not Classifiable as a Human Carcinogen (A4)
EPA GENETOX PROGRAM 1988, Positive: S cerevisiae gene conversion

SECTION 12: ECOLOGICAL INFORMATION

ECOTOXICITY:	LC50 (bluegill): 0.7mg/L/96hr (HSDB, 2004)
PERSISTENCE AND DEGRADABILITY:	This material is the recalcitrant.
BIOACCUMULATION POTENTIAL:	This material is not high bioaccumulatable.
MOBILITY IN SOIL:	Not available
OTHER ADVERSE EFFECTS:	WGK; 3 The products of degradation are less toxic than the product itself.

Do not allow entering water, waste water or soil. Initially photolysis of sodium azide will result in the formation of metallic nitrides with metals found in natural water. These nitrides will decompose over time into nitrogen gas and free metals.

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHOD:	Burn in small portion in a chemical incinerator equipped with an afterburner and scrubber in accordance with all applicable regulations. Any disposal practice must be in compliance with country, local, state, and federal laws and regulations (contact country, local or state environmental agency for specific rules).
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SECTION 14: TRANSPORT INFORMATION

Transport in accordance with all regional and local transportation regulations. All components are not dangerous good as regulated by IATA or DOT (Department of Transportation).

ENVIRONMENTAL HAZARDS ACCORDING TO IMDG CODE: Not applicable

SPECIAL PRECAUTIONS FOR USER : Transport under the condition of the temperature at 2 °C-8 °C and away from direct sunlight. Handling carefully to avoid break of the container by drop or brunt. Make sure that there is no leak from the container and embark it with attention not to rollover, drop, and cargo shift. Embark and transport the products following the precaution statements defined by Ship Safety Act, Aviation Law and other applicable regulations related thereto.

TRANSPORT IN BULK ACCORDING TO Annex II of MARPOL73/78 and the IBC Code : Not applicable.

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with the Regulation (EC) No 1278/2008 (CLP).

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SECTION 16: OTHER INFORMATION

No specific notes

The above information is based on our present knowledge. However this shall not constitute a guarantee for any specific product feature and shall not establish legally valid contractual relationship.

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SECTION 1: PRODUCT AND COMPANY IDENTIFICATION

Trade name: Stop Solution
Use of preparation For In Vitro Diagnostic Use
SYNONYMS: None
Manufacturer: CMIC HOLDINGS Co., Ltd.
Hamamatsucho Bldg.,1-1-1 Shibaua, Minato-ku Tokyo 105-0023, JAPAN
Emergency information: L-FABP Business Department
Mass Bldg. 2F, 2-16-10 Yushima, Bunkyo-ku Tokyo 113-0034, JAPAN
TEL PHONE: +81-3-6779-8017 FAX:+81-3-3830-5455 E-mail:l-fabp@cmic.co.jp
Inquiry : <https://www.fabp.jp/132.php>
The other emergency information:
Emergo Europe
Molenstraat 15, 2513 BH The Hague, The Netherlands

SECTION 2: HAZARDS IDENTIFICATION

Stop Solution contains Sulfuric acid (4.9% w/v)

Information pertaining to special danger for human and environment

HAZARDOUS COMPONENTS: Sulfuric acid

CLASSIFICATION ACCORDING TO REGULATION (EC) No 1272/2008 [CLP]: Skin Corr. Skin Irrit. 2; H315: 5%
≤ C<15%,: Eye Irrit. 2; H319: 5%
≤ C<15%



SIGNAL WORD: Warning

HAZARD STATEMENTS:

PRECAUTIONARY STATEMENTS:

H315: Causes skin irritation.

H319: Causes serious eye irritation.

P280: Wear protective gloves/protective clothing/eye protection/face protection.

P302+P352: IF ON SKIN: Wash with plenty of soap and water.

P332+P313: If skin irritation occurs: Get medical advice/attention.

P362: Take off contaminated clothing and wash before reuse.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

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

SUPPLEMENTAL HAZARD INFORMATION: Not applicable

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SECTION 3: COMPOSITION/INFORMATION ON COMPONENTS

CAS No	EC No	Index No	% [weight]	Name	Classification according to Regulation (EC) No 1278/2008 (CLP).
7664-93-9	231-639-5	016-020-00-8	4.9% (Stop solution)	Sulphuric acid	Skin Irrit. 2; H315: 5%≤C<15%, Eye Irrit. 2; H319: 5%≤C<15%

SECTION 4: FIRST AID MEASURES

GENERAL ADVICE: Wash off immediately with soap and plenty of water. In the case of respirable dust and/or fumes, use self-contained breathing apparatus and dust impervious protective suit. Use personal protective equipment.

INHALATION: Move victim to fresh air. If breathing is difficult, give oxygen. If irritation persists, consult a physician.

SKIN CONTACT: Remove contaminated clothes and shoes, rinse skin with plenty of water or shower. Use soap to help assure removal. If irritation persists, consult a physician.

EYE CONTACT: Remove any contact lenses at once. Flush eyes well with flooding amounts of running water for at least 15 minutes. Assure adequate flushing by separating the eyelids with sterile fingers. If irritation persists, consult a physician.

INGESTION: Rinse mouth, give plenty of water to dilute the substance. Never give anything by mouth to an unconscious person. Consult a physician.

SECTION 5: FIRE-FIGHTING MEASURES

EXTINGUISHING MEDIA: Carbon dioxide, dry chemical powder, alcohol resistant foam.

UNSUITABLE EXTINGUISHING MEDIA: None

FIRE & EXPLOSION HAZARDS: Toxic and irritating fumes or smoke may be emitted. Explosive hydrogen gas is released upon contact with common metals.

SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS:

Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

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SECTION 6: ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS: Remove ignition sources and ventilate the area. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid raising dust and avoid contact with skin and eyes. In case of emergency, evacuate the danger area or to consult an expert.

ENVIRONMENTAL PRECAUTIONS: Prevent spills from entering sewers, watercourses or low areas.

METHODS FOR CLEAN UP: Do not touch spilled material without suitable protection (See section 8). After material is completely picked up, wash the spill site with soap and water and ventilate the area. Put all wastes in a plastic bag for disposal and seal it tightly. Remove, clean, or dispose of contaminated clothing.

SECTION 7: HANDLING AND STORAGE

HANDLING: Avoid contact with eyes, skin and clothing. Avoid prolonged or repeated exposure. Handle material with suitable protection.

STORAGE: Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

INCOMPATIBLE PRODUCTS: Reducing agents, alkalis, metals, combustible materials, organic materials

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

ENGINEERING MEASURES: Use exhaust ventilation to keep airborne concentrations below exposure limits. Use only with adequate ventilation.

VENTILATION : Local Exhaust; Necessary, Mechanical (General); Necessary Special; Closed system is recommended.

PERSONAL PROTECTION :

Respiratory protection: NIOSH/MSHA or European Standard EN149 approved respirator

Hand protection: Chemical resistant gloves

Eye protection: Safety glasses (goggles)

Skin protection: Protective clothing

CONTROL PARAMETER: as Sulfuric acid:
OSHA Final Limits: TWA=1mg/m³
ACGIH TLV(s): TWA=1mg/m³; STEL= 3mg/m³; suspected human carcinogen.

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SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical and chemical properties in this section are applied as product itself.

Stop Solution;

HAZARDOUS COMPONENTS:	Sulphuric acid
APPEARANCE :	Liquid
ODOR :	Not available
ODOR THRESHOLD:	Not available
pH :	0.3 as 1N solution
BOILING POINT :	Not available
FREEZING POINT:	Not available
EVAPORATION RATE:	Not available
DECOMPOSITION TEMPERATURE:	Not available
EXPLOSIVE LIMITS :	Not available
VAPOR PRESSURE :	Not available
VAPOR DENSITY:	Not available
SPECIFIC GRAVITY :	Not available
DECOMPOSITION TEMPERATURE:	Not available
SOLUBILITY IN WATER :	Soluble
log Po/w:	Not available
EXPLOSIVE PROPERTIES:	Not available
OXIDISING PROPERTIES:	Not available

SECTION 10: STABILITY AND REACTIVITY

Stability and reactivity in this section are applied as product itself.

REACTIVITY :	Not self-reactive mixture
CHEMICAL STABILITY :	The product is stable for 24 months under the recommended storage condition at ambient temperatures of 2 °C to 8 °C.
POSSIBILITY OF HAZARDOUS REACTIONS :	Contact with acid liberates very toxic gas. The toxic hydrogen azide will be formed when it reacts with acid.
CONDITION TO AVOID :	Sunlight, heat
INCOMPATIBILITY (MATERIAL TO AVOID) :	Reducing agents, alkalis, metals, combustible materials, organic materials
HAZARDOUS DECOMPOSITION PRODUCTS :	Sulfur oxides

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SECTION 11: TOXICOLOGICAL INFORMATION

as Sulfuric acid;

ACUTE TOXICITY (oral/dermal/inhalation) : TLo (ihl, human): 1mg/m³/3H (RTECS)
LD50 (orl, rat): 2140mg/kg (RTECS)
LC50 (ihl, rat): 510mg/m³/2H (RTECS)
LC50 (ihl, mouse): 320mg/m³/2H (RTECS)
TOXICITY DATA : May be harmful if inhaled and ingested.
SKIN CORROSION/IRRITATION : May cause skin irritation.
EYE DAMAGE/EYE IRRITATION : Eye; rabbit; 5mg/30S; Severe (RTECS)
RESPIRATORY OR SKIN SENSITIZATION : Not available
GERM CELL MUTAGENICITY : Cytogenetic analysis; hamster; ovary; 4mmol/L (RTECS)
TOXIC TO REPRODUCTION : TLo (ihl, rabbit): 20mg/m³/7H (6-18 D preg) (RTECS)
STOST-SINGLE EXPOSURE : Not available
STOST-REPEATED EXPOSURE : Not available
ASPIRATION TOXICITY : Not available
CARCINOGENICITY : Not available

ADDITIONAL INFORMATION ;

NTP: Not listed

IARC: Human Carcinogen (Group 1)

OSHA: Not listed

ACGIH: Suspected Human Carcinogen (A2)

SECTION 12: ECOLOGICAL INFORMATION

as Sulfuric acid;

ECOTOXICITY: LC50 (prawns); 42.5ppm/48hr (saltwater)
EC50 (daphnids): 29mg/L/24hr
LC50 (bluegill): 49mg/L/48hr
PERSISTENCE AND DEGRADABILITY : Not available
BIOACCUMULATION POTENTIAL : Not available
MOBILITY IN SOIL : Not available
OTHER ADVERSE EFFECTS: WGK; 1

SECTION 13: DISPOSAL CONSIDERATIONS

WASTE TREATMENT METHOD: Gradually add to water with stirring. Adjust the pH to neutral, separate any insoluble solids or liquids and package them for hazardous-waste disposal. Flush the aqueous solutions down the drain with plenty of water. Any disposal must be in compliance with local, state, and federal laws and regulations (contact local or state environmental agency specific rules). After contents are completely removed, dispose of its container in accordance with local/regional/national/international regulation.

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SECTION 14: TRANSPORT INFORMATION

Transport in accordance with all regional and local transportation regulations. All components are not dangerous good as regulated by IATA or DOT (Department of Transportation).

ENVIRONMENTAL HAZARDS ACCORDING TO IMDG CODE: Not applicable

SPECIAL PRECAUTIONS FOR USER : Transport under the condition of the temperature at 2 °C-8 °C and away from direct sunlight. Handling carefully to avoid break of the container by drop or brunt. Make sure that there is no leak from the container and embark it with attention not to rollover, drop, and cargo shift. Embark and transport the products following the precaution statements defined by Ship Safety Act, Aviation Law and other applicable regulations related thereto.

TRANSPORT IN BULK ACCORDING TO Annex II of MARPOL73/78 and the IBC Code : Not applicable

SECTION 15: REGULATORY INFORMATION

This safety datasheet complies with Regulation (EC) No 1278/2008 (CLP).

SECTION 16: OTHER INFORMATION

No specific notes

The above information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish legally valid contractual relationship.