

KIT

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: FT4 ELISA

Catalog #: KAPDB4340

Kit Components: Microplate
Conjugate
Calibrators
Controls
Buffer
Wash Buffer
TMB Substrate
Stopping Solution

1.2 Intended Use

For In Vitro Diagnostic Use.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 OTHER INFORMATION

2.1 Labeling of microplate:

Each well can only be used once



CONJUGATE, CALIBRATORS, CONTROL, BUFFER, MICROPLATE

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Conjugate
Calibrators
Control
Buffer (excluding Wash buffer)
Microplate
Catalog #: Component of the kit mentioned on the first page

1.2 Intended Use

To be used as a component with ELISA kits according to the instructions provided with the kit.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

This preparation is classified as not dangerous according to CLP (EC) No 1272/2008

2.2 Label elements

Danger symbol	Not applicable.
Signal word	Not applicable.
Product Identifier	Not applicable.
Danger	Not applicable.
Supplemental Hazard Information	Not applicable.
Prevention statements	Not applicable.
Response statements	Not applicable.
Storage statements	Not applicable.
Disposal statements	Not applicable.

2.3 Other hazards

PBT & vPvB:

PBT: Not applicable
vPvB: Not applicable

3 COMPOSITION/INFORMATION ON INGREDIENTS

No substances fulfill the criteria set forth in annex II section A of the REACH regulation (EC) n°1907/2006.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General information	In general, in case of doubt or if symptoms persist, always call a doctor. Never give anything by mouth to an unconscious person.
Following inhalation	If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get immediate medical advice/attention.
Following skin contact	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing and shoes. Wash clothing before reuse. Call a physician if irritation develops and persists.
Following eye contact	In case of contact, immediately flush eyes with plenty of water. If easy to do, remove contact lenses, if worn. If eye irritation persists: Get medical advice/attention.
Following ingestion	If swallowed, do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical advice/attention.
For emergency responders	No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva. May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin. May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
Effects	No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Treat for surrounding material.

5.2 Special hazards arising from the substance or mixture

Products of combustion may include, and are not limited to: oxides of carbon.

5.3 Advice for fire fighters

Keep upwind of fire. Wear full fire fighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Avoid any contact with the skin and eyes. Do not breathe vapour or mist.

6.2 Environmental Precautions

Keep out of drains, sewers, ditches, and waterways. Minimize use of water to prevent environmental contamination.

6.3 Methods and material for containment and cleaning-up

Contain and/or absorb spill with inert material (e.g. sand, vermiculite), then place in a suitable container. Do not flush to sewer or allow to enter waterways. Use appropriate Personal Protective Equipment (PPE).

Scoop up material and place in a disposal container. Provide ventilation..

6.4 Reference to other sections

See section 8 for further information on protective clothing and equipment and section 13 for advice on waste disposal.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Users should have a thorough understanding how to use this product. Do not breathe gas/fumes/vapor/spray. Do not get in eyes, on skin, or on clothing. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. (See section 8).

7.2 Conditions for safe storage, including any incompatibilities

Keep out of the reach of children. Keep container tightly closed and in a well-ventilated place. Product should be at room temperature and mixed gently but thoroughly before use. Do not use any component beyond the expiration date printed on the label. Unused chemicals should not be returned to the container. (See section 10).

7.3 Specific Use(s)

No data available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Ingredient	UK - Occupational Exposure Limits (TWA)
	Not applicable.

8.2 Exposure controls

Appropriate engineering controls Use ventilation adequate to keep exposures (airborne levels of dust, fume, vapor, etc.) below recommended exposure limits.

Eye/face protection: Wear approved eye (properly fitted dust- or splash-proof chemical safety goggles) / face (face shield) protection.

Hand protection: Wear solvent resistant gloves.

Respiratory protection: In case of insufficient ventilation, wear suitable respiratory equipment.

Environmental exposure controls Handle in accordance with good industrial hygiene and safety practice.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Color	Not available
Odour	Not available
Odor threshold	Not available
pH	Not available
Melting / Freezing point	Not available
Boiling point	Not available
Flash point	Not available
Evaporation rate	Not available
Flammability	Not flammable
Lower limit of flammability or explosive	Not available
Upper limit of flammability or explosive	Not available
Vapour pressure	Not available
Vapour density	Not available
Relative density	Not available
Water solubility	Not available
Solubility in other Solvents	Not available
Log Kow	Not available
Auto-inflammability temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available
Refractive index	Not available

9.2 Other information

No data available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical Stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to Avoid

Heat. Incompatible materials.

10.5 Incompatible materials

None known.

10.6 Hazardous Decomposition Products

May include, and are not limited to: oxides of carbon.

11 TOXICOLOGICAL INFORMATION

Acute toxicity	Unknown toxicity.
Inhalation	May cause respiratory tract irritation.
Ingestion	May be harmful if swallowed. May cause stomach distress, nausea or vomiting.
Skin corrosion	May cause skin irritation. Symptoms may include redness, edema, drying, defatting and cracking of the skin.
Eye damage	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with marked redness and swelling of the conjunctiva.
Respiratory sensitisation	Not available.
Germ cell mutagenicity	This product is not classified as a mutagen.
Carcinogenicity	This product is not classified as a carcinogen.
Toxic for reproduction	This product does not contain known reproductive or developmental toxins
Unique specific toxicity	Not available.
Repeated specific toxicity	Not available.
Aspiration hazard	Not expected to occur.
Other information	Not available.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

May cause long-term adverse effects in the aquatic environment.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulation

Not available.

12.4 Mobility in soil

Not available.

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

Not available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not use the empty containers.

Waste disposal according to the Directives EC 75/442/EEC and 91/689/EEC in their latest versions by incineration or dispose of waste material

13.2 Waste code numbers/Waste identification

No data available.

14 TRANSPORT INFORMATION

	ADR	ADN/ADNR	IMDG	ICAO
14.1. UN number	Not applicable			
14.2. UN proper shipping name	Not applicable			
14.3. Transport hazard class(es)	Not applicable		Not applicable	Not applicable
14.4. Packing group	Not applicable		Not applicable	Not applicable
14.5. Environmental hazards	Not available	Not available	Not available	Not available
Hazard label	Not applicable			
Classification code	Not applicable			
14.6. Special precautions for user	Not available			
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not available			
Other information	Not available	Not available	Not available	Not available

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

Authorizations and/or restrictions on use:

This Safety Data Sheet classification and labeling have been determined according to the (EC) No. 1272-2008 "Classification, Labeling and Packaging" regulation; and take into account the intended product use.

15.2 Chemical Safety Assessment

A Chemical Safety Assessment has not been carried out for this product.

16 OTHER INFORMATION

Key or legend to abbreviations and acronyms

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on inland waterways.

ADR/RID: European Agreement concerns the International Carriage of Dangerous Goods by Road/ Regulations concerning the international carriage of dangerous goods by rail.

CAS No.: Chemical Abstract Service Number

CLP: Classification, Labelling and Packaging

Key literature references and sources for data

No data available.

Procedure used to derive the classification according to regulation (EC) n°1272/2008 (CLP)

Classification of the mixture is consistent with the method of valuation of regulation (EC) n°1272/2008.

List of relevant hazard statements and/or precautionary statements. (Full text of any statements which are not written out in full under section 3)

Not applicable.

Advice on any training appropriate for workers to ensure protection of human health and the environment

No data available

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

Notification:

English is acceptable for our MSDS as the following conditions are met:

- Medical specialists (users) are well educated in the English language

STOPPING SOLUTION

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Stopping Solution

Catalog #: Component the kits mentioned on the first page

1.2 Intended Use

To be used as a component with ELISA kits according to the instructions provided with the kit.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Skin Irrit. 2	H315 Causes skin irritation.
Eye Irrit. 2	H319 Causes serious eye irritation.

2.2 Label elements according to the regulation (EC) n°1272/2008 (CLP) and its amendments

Danger symbol



Signal word

Warning

Product Identifier

Sulfuric Acid, 5.32% v/v

Danger

H315 Causes skin irritation.
H319 Causes serious eye irritation.

Supplemental Hazard Information

-

Prevention statements

P264 Wash exposed skin thoroughly after handling.
P280 Wear protective gloves, protective clothing, eye protection, face protection.

Response statements P302+P350 IF ON SKIN: Gently wash with plenty of soap and water.
 P332+P313 If skin irritation occurs: Get medical advice/attention.
 P305+P351+P338 If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Storage statements -

Disposal statements P501 Dispose of contents/container to comply with local, state and federal regulations.

2.3 Other hazards

PBT & vPvB: PBT: Not applicable
 vPvB: Not applicable

3 COMPOSITION/INFORMATION ON INGREDIENTS

Name	(% w/w)	Classification	Specific concentration limits
Sulfuric acid ...%* CAS: 7664-93-9 EC: 231-639-5 Index number: 016-020-00-8	< 10%	Skin Corr. 1A, H314	Skin Corr. 1A; H314: C ≥ 15% Eye Irrit. 2; H319: 5% ≤ C < 15% Skin Irrit. 2; H315: 5% ≤ C < 15%

***Note B:** Some substances (acids, bases, etc.) are placed on the market in aqueous solutions at various concentrations and, therefore, these solutions require different classification and labelling since the hazards vary at different concentrations. In Part 3 entries with Note B have a general designation of the following type: 'nitric acid ...%'. In this case the supplier must state the percentage concentration of the solution on the label. Unless otherwise stated, it is assumed that the percentage concentration is calculated on a weight/weight basis.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General information In general, in case of doubt or if symptoms persist, always call a doctor. Never give anything by mouth to an unconscious person.

Following inhalation If person experiences nausea, headache or dizziness, person should stop work immediately and move to fresh air until these symptoms disappear. If breathing is difficult, administer oxygen by a qualified person, keep the person warm and at rest. Call a physician. In the event that an individual inhales enough vapour to lose consciousness, person should be moved to fresh air at once and a physician should be called immediately. If breathing has stopped, artificial respiration should be given immediately. In all case, ensure adequate ventilation and provide respiratory protection before the person returns to work.

Following skin contact IF ON SKIN (or hair): Remove contaminated clothing. Rinse skin with water / with vegetable oil. Take a shower.

If irritation or rash occurs: Get medical advice.
Following eye contact IF IN EYES: Rinse cautiously with vegetable oil for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 If eye irritation persists: Get medical advice/attention.

Following ingestion IF SWALLOWED: Rinse thoroughly mouth with water. Immediately call a POISON CENTER/doctor.
Do NOT induce vomiting.

For emergency responders No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms No data available.

Effects No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Appropriated: Use water spray or other suitable agent on fires adjacent to non-leaking tanks or intact containers of acid. If only a small amount of combustibles is present, smother fire with dry chemical.

Small fire: Dry powder or CO₂. Move containers from fire area, if it can be done without risk.

Large fire: Flood fire area with large quantities of water, while knocking down vapours with water fog. Cool containers with flooding quantities of water until well after fire is out. Do not get water inside containers. Withdraw immediately in case of rising sound from venting safety devices or discoloration of tank.

Non-appropriated: Do not use solid water streams near ruptured tanks or spills of sulfuric acid.

5.2 Special hazards arising from the substance or mixture

Acid reacts violently with water and can spatter acid onto personnel.

Reacts with most metals, especially when diluted: Hydrogen gas release, which is extremely flammable and explosive. Risk of explosion if acid combines with water, organic materials or base solutions in enclosed spaces. Mixing acids of different strengths/concentrations can also pose an explosive risk in an enclosed space/container.

5.3 Advice for fire fighters

Add chemical safety goggles if eye protection is not provided. Wear full protective clothing.

Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear full protective clothing. Neutralize run-off with lime, soda ash, to prevent corrosion of metals and formation of hydrogen gas. Wear self-contained breathing apparatus if fumes or mists are present.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Evacuate all personnel from danger area.

Use required personal protective equipment.

Remove sources of ignition.

DO NOT smoke.

Stop flow if possible.

6.2 Environmental Precautions

Avoid release to the environment.
Avoid contamination of drains, surface water and groundwater.

6.3 Methods and material for containment and cleaning-up

SMALL SPILL: Soak up with dry sand, clay or diatomaceous earth.

LARGE SPILL: Dike. Cautiously dilute and neutralize with lime or soda ash. Adequate ventilation is required during neutralization due to release of CO₂ gas. Transfer to waste water treatment system. Prevent liquid from entering sewers, waterways. Product not recovered or sent as waste for treatment should be reported to authorities.

6.4 Reference to other sections

Refer to sections: 7 safe handling, 8 for personal protective equipments, 13 for disposal.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

DO NOT get in eyes, on skin, or on clothing.
DO NOT ingest: Avoid breathing vapours or mist.
Wear approved respirators if ventilation is not adequate.
No eating, drinking and smoking when handling the product.
Wash hands thoroughly after handling.
NEVER add water to acid.

7.2 Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated area, away from incompatible substances. Protect from physical damage.
Keep out of sun and away from heat (more than 275 °C).
If stored in metal containers, vapours can contain explosive hydrogen gas.
Do not smoke in storage area.

7.3 Specific Use(s)

No data available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with critical values that require monitoring at the workplace:

Sulfuric acid:

Limit value (8h): 1 mg/m³

Limit value (Short term): 3 mg/m³

8.2 Exposure controls



Appropriate engineering controls

Good general ventilation should be provided to keep vapour and mist concentrations below the exposure limits.

Eye/face protection: Wear safety glasses with non-perforated shields. Add a face shield (close-fitting) if pouring liquid. For leak, spills emergency or heavy handling, use chemical safety goggles or a full face shield. Do not wear contact lenses.

Respiratory protection: Not required when using a closed ventilation system. If acid concentration is above 1 mg/m³, wear a gas mask with acid gas canister equipped with particulate filter. If the concentration is higher than 10 mg/m³, use an efficiency particulate respirator, or self-contained breathing apparatus with full face piece.

Other: Wear acid resistant gloves (preferably rubber), boots; long sleeve wool, acrylic, or polyester clothing under an acid proof suit. Trouser legs should be outside boots. An apron can be used in place of acid proof suit in laboratory environment, or in handling small volumes of sulphuric acid. In case of emergency, wear a complete acid suit with hood, boots, and gloves with respiratory protection.

Environmental exposure controls

Avoid release to the environment

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid Viscous
Color	Colorless
Odour	Not available
Odor threshold	Not available
pH	<1
Melting / Freezing point	-14°C
Boiling point	308°C
Flash point	Not applicable
Evaporation rate	<1
Flammability	Not available
Lower limit of flammability or explosive	Not applicable
Upper limit of flammability or explosive	Not applicable
Vapour pressure	<0.001 mmHg @ 20°C
Vapour density	3.4 (air = 1)
Relative density	1.84
Water solubility	Miscible
Solubility in other Solvents	Not available
Log Kow	Not available
Auto-inflammability temperature	Not applicable
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not available
Oxidizing properties	Not available
Refractive index	Not available

9.2 Other information

No data available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

Reacts violently with water, organic substances and base solutions with evolution of heat.

10.2 Chemical Stability

Stable.

10.3 Possibility of hazardous reactions

Under normal conditions of stock and use, hazardous reactions will not occur.

10.4 Conditions to Avoid

Not available.

10.5 Incompatible materials

Vigorous reactions with: water, alkaline solutions, metals, carbides, chlorates, fulminates, nitrates, picrates, strong oxidizing, reducing or combustible organic materials. Hazardous gases are evolved on contact with chemicals such as cyanides, sulfides and carbides.

10.6 Hazardous Decomposition Products

Temperatures of $\geq 275^\circ$ yield sulphur trioxide gas, which is toxic, corrosive and an oxidizer.

11 TOXICOLOGICAL INFORMATION

Acute toxicity	Highly toxic. Erosion of teeth, lesions of the skin, bronchitis, mouth inflammation, conjunctivitis, gastritis. LD50 (rat-oral) = 2140 mg/kg LC50 (mouse-ihl) = 160 mg/m ³ (4hrs) LC50 (rat-ihl) = 255 mg/m ³ (4 hrs)
Inhalation	Highly toxic by inhalation of fumes or acid mist. Causes irritations or corrosive burns to the upper respiratory system, including nose, mouth, and throat. Lung irritation and pulmonary edema can also occur.
Ingestion	Can cause irritation and corrosive burns to mouth, throat, and stomach. Can be fatal if swallowed. Risk of vomiting, diarrhea, oesophagus and stomach perforation.
Skin corrosion	Can cause severe burns and destruction of tissue. May cause destruction of the dermis with impairment of the skin at site of contact to regenerate.
Eye damage	Extremely corrosive! Liquid contact causes irritation, corneal burns, and conjunctivitis. Blindness may result, or severe or permanent injury. Mist contact may irritate or burn.
Respiratory sensibilisation	Not available.

Germ cell mutagenicity	Not identified as a mutagen.
Carcinogenicity	Suspected in humans.
Toxic for reproduction	Not identified as toxic for reproduction.
Unique specific toxicity	Not available.
Repeated specific toxicity	Not available.
Aspiration hazard	Not available.
Other information	Practical experience: none. General notes: The classification was made according to the calculation procedure of the preparation and harmonized classification.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Toxicity to aquatic life increases with lowering of pH.

12.2 Persistence and degradability

Not available.

12.3 Bioaccumulation

Sulfate ion: Ubiquitous in the environment. Metabolized by micro-organisms and plants without bioaccumulation.

12.4 Mobility in soil

Easy soil seeping under rain action.

12.5 Results of PBT and vPvB assessment

Not available.

12.6 Other adverse effects

Due to the product's composition, particular attention must be taken for transportation and storage. Protect from rain because the run-off water will become acidic and may be harmful to flora and fauna.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Do not use the empty containers.

Waste disposal according to the Directives EC 75/442/EEC and 91/689/EEC in their latest versions by incineration or dispose of waste material

13.2 Waste code numbers/Waste identification

No data available.

14 TRANSPORT INFORMATION

	ADR	ADN/ADNR	IMDG	ICAO
14.1. UN number	Not applicable			
14.2. UN proper shipping name	Not applicable			
14.3. Transport hazard class(es)	Not applicable		Not applicable	Not applicable
14.4. Packing group	Not applicable		Not applicable	Not applicable
14.5. Environmental hazards	Not available	Not available	Not available	Not available
Hazard label	Not applicable			
Classification code	Not applicable			
14.6. Special precautions for user	Not available			
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not available			
Other information	Not available	Not available	Not available	Not available

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

15.2 Chemical Safety Assessment

No data available.

16 OTHER INFORMATION

Key or legend to abbreviations and acronyms

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on inland waterways.

ADR/RID: European Agreement concerns the International Carriage of Dangerous Goods by Road/ Regulations concerning the international carriage of dangerous goods by rail.

CAS No.: Chemical Abstract Service Number

CLP: Classification, Labelling and Packaging

Key literature references and sources for data

No data available.

Procedure used to derive the classification according to regulation (EC) n°1272/2008 (CLP)

Classification of the mixture is consistent with the method of valuation of regulation (EC) n°1272/2008.

List of relevant hazard statements and/or precautionary statements. (Full text of any statements which are not written out in full under section 3)

Hazard statements (H):

H314 Causes severe skin burns and eye damage.

Advice on any training appropriate for workers to ensure protection of human health and the environment

No data available

The information given in this Safety Data Sheet is based on our present knowledge and on European and national regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it doesn't guarantee all the product properties particularly in the case of non-identified uses. The product mustn't be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

Notification:

English is acceptable for our MSDS as the following conditions are met:

- Medical specialists (users) are well educated in the English language

TMB SUBSTRATE

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: TMB Substrate

Catalog #: Component of the kit mentioned on the first page

1.2 Intended Use

To be used as a component with ELISA kits according to the instructions provided with the kit.
For laboratory use only
Industrial use

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Not classified.

Adverse physicochemical, human health and environmental effects
No additional information available.

2.2 Label elements

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

Hazard pictogram	Not applicable
Signal word	Not applicable
Hazard statement	Not applicable
Precaution	Not applicable
Prevention	Not applicable
Response	Not applicable
Storage	Not applicable
Disposal	Not applicable
Additional Hazards	Not applicable

2.3 Other hazards

Other hazards not contributing to the classification

Contains oxidising substance(s) at <0.5%.

3 COMPOSITION/INFORMATION ON INGREDIENTS

Classification according to Regulation (EC) No 1272/2008 (CLP)

Name	Product Identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Pyrrolidinone	(CAS-No.) 616-45-5 (EC-No.) 210-483-1	1 - 6	Acute Tox. 4 (Oral), H302 Eye Irrit. 2, H319
Urea, compound with hydrogen peroxide (H2O2) (1:1)	(CAS-No.) 124-43-6 (EC-No.) 204-701-4	< 0.4	Ox. Sol. 3, H272 Skin Irrit. 2, H315 Eye Dam. 1, H318

Full text of H- phrases: see section 16.

4 FIRST AID MEASURES

4.1 Description of first aid measures

First-aid measures after inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical advice/attention if you feel unwell.
First-aid measures after skin contact	If skin irritation occurs: Wash skin with mild soap and water. Obtain medical attention if irritation persists.
First-aid measures after eye contact	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	Do NOT induce vomiting. Rinse mouth. Never give anything by mouth to an unconscious person. Get medical advice/attention if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms/effects after inhalation	May cause irritation to the respiratory tract.
Symptoms/effects after skin contact	May cause skin irritation. Repeated exposure may cause skin dryness or cracking.
Symptoms/effects after eye contact	May cause eye irritation. Symptoms may include discomfort or pain, excess blinking and tear production, with possible redness and swelling.
Symptoms/effects after ingestion	May be harmful if swallowed. May cause gastrointestinal irritation, nausea, vomiting and diarrhea.

4.3 Indication of any immediate medical attention and special treatment needed

Symptoms may be delayed. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Media:

Unsuitable Extinguishing Media: None known.

5.2 Special hazards arising from the substance or mixture

Fire hazard : Products of combustion may include, and are not limited to: oxides of carbon. Contains oxidising substance(s) at <0.5%.

5.3 Advice for fire fighters

Protection of Firefighters: Keep upwind of fire. Wear full firefighting turn-out gear (full Bunker gear) and respiratory protection (SCBA).

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

General measures : Use personal protection recommended in Section 8. Isolate the hazard area and deny entry to unnecessary and unprotected personnel.

6.1.1 For non-emergency personnel

No additional information available.

6.1.2 For emergency responders

No additional information available.

6.2 Environmental Precautions

Prevent entry to sewers and public waters. Do not allow to enter drains or water courses.

6.3 Methods and material for containment and cleaning-up

Methods for Containment: Absorb and/or contain spill with inert material (sand, vermiculite or other appropriate material), then place in suitable container. Do not flush into surface water or sewer system. Wear recommended personal protective equipment.

Methods for Cleaning-Up: Sweep or shovel spills into appropriate container for disposal. Provide ventilation. Flush contaminated areas with plenty of water.

6.4 Reference to other sections

For further information refer to section 8: "Exposure controls/personal protection".

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

- Handling:** Avoid contact with eyes, skin and clothing. Avoid breathing dust/fume/gas/mist/vapours/spray. Do not swallow. Handle and open container with care. When using do not eat, drink or smoke. Provide adequate ventilation. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required.
- General Hygiene Advice:** Wash contaminated clothing before reuse. Always wash hands after handling the product.

7.2 Conditions for safe storage, including any incompatibilities

- Storage:** Keep out of the reach of children. Keep container tightly closed. Store in a dry, cool and well-ventilated place. Store in correctly labelled container . Keep away from food, drink and animal feeding stuffs.

7.3 Specific Use(s)

- End uses:** Not available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

No additional information available.

8.2 Exposure controls

- Appropriate engineering controls:** Ensure good ventilation of the work station. Provide readily accessible eye wash stations and safety showers.
- Hand protection:** Chemical resistant gloves (according to European standard NF EN 374 or equivalent)
- Eye protection:** Safety eyewear complying with an approved standard such as the European Standard EN166 should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists or dusts.
- Skin and body protection:** Wear suitable protective clothing
- Respiratory protection:** In case of insufficient ventilation, wear suitable respiratory equipment. 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:** Avoid release to the environment.
- Other information:** Handle in accordance with good industrial hygiene and safety procedures. Do not eat, drink or smoke when using this product.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Liquid
Appearance	Liquid
Color	Clear/ light blue
Odour	Characteristic
Odor threshold	No data available
pH	3.1 – 3.5
Relative evaporation rate (butylacetate=1)	No data available
Melting point	No data available
Freezing point	No data available
Boiling point	No data available
Flash point	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available
Flammability (solid, gas)	Not flammable
Vapour pressure	No data available
Relative vapour density at 20 °C	No data available
Relative density	No data available
Solubility	Soluble in water
Partition coefficient n-octanol/water	No data available
Viscosity, kinematic	No data available
Viscosity, dynamic	No data available
Explosive properties	No data available
Oxidising properties	No data available
Explosive limits	No data available

9.2 Other information

No additional information available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

10.2 Chemical Stability

Stable under normal storage conditions.

10.3 Possibility of hazardous reactions

No dangerous reaction known under conditions of normal use.

10.4 Conditions to Avoid

Incompatible materials. Extreme temperatures.

10.5 Incompatible materials

Combustible materials. Strong oxidizing agents.

10.6 Hazardous Decomposition Products

May include, and are not limited to: oxides of carbon.

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity (oral)	Not classified.
Acute toxicity (dermal)	Not classified.
Acute toxicity (inhalation)	Not classified.

2-Pyrrolidinone (616-45-5)	
LD50 oral rat	328 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat	> 80 ppm (Exposure time: 8 h)

Skin corrosion/irritation	Not classified.
Additional information	pH: 3.1 – 3.5
Serious eye damage/irritation	Based on available data, the classification criteria are not met.
Additional information	Not classified.
Respiratory or skin sensitisation	pH: 3.1 – 3.5
Additional information	Based on available data, the classification criteria are not met.
Germ cell mutagenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Carcinogenicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Reproductive toxicity	Not classified.
Additional information	Based on available data, the classification criteria are not met.
STOT-single exposure	Not classified.
Additional information	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Aspiration hazard	Not classified.
Additional information	Based on available data, the classification criteria are not met.
Other information	Likely routes of exposure: ingestion, inhalation, skin and eye.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

Ecology - general	May cause long-term adverse effects in the aquatic environment.
Unknown hazards to the aquatic environment (CLP)	Contains 0.4 % of components with unknown hazards to the aquatic environment.
Hazardous to the aquatic environment, short-term (acute)	Not classified.
Hazardous to the aquatic environment, long-term (chronic)	Not classified.

2-Pyrrolidinone (616-45-5)	
LC50 fish 1	4600 – 10000 mg/l (Exposure time: 96 h - Species: Brachydanio rerio [static])
EC50 72h algae (1)	250 mg/l (Species: Desmodesmus subspicatus)
EC50 96h algae (1)	84 mg/l (Species: Desmodesmus subspicatus)

12.2 Persistence and degradability

TMB Substrate

Persistence and degradability Not established.

12.3 Bioaccumulation

TMB Substrate

Bioaccumulative potential Not established.

2-Pyrrolidinone (616-45-5)

Partition coefficient n-octanol/water -0.71 (at 25°C)

12.4 Mobility in soil

No additional information available.

12.5 Results of PBT and vPvB assessment

No additional information available.

12.6 Other adverse effects

Additional information : No other effects known.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Product/Packaging disposal recommendations Dispose in a safe manner in accordance with local/national regulations. Do not reuse container. Recycle empty containers where allowed.

14 TRANSPORT INFORMATION

14.1 UN number

Not regulated.

14.2 UN proper shipping name

Proper Shipping Name (ADR) : Not regulated

14.3 Transport hazard class(es)

Transport hazard class(es) (ADR) : Not regulated

14.4 Packing group

Packing group (ADR) : Not regulated.

14.5 Environmental hazards

Dangerous for the environment : No

Other information : No supplementary information available.

14.6 Special precautions for user

Special transport precautions : Do not handle until all safety precautions have been read and understood.

Overland transport : Not regulated.

14.7 Transport in bulk according to Annex II of MARPOL73/78 and IBC Code

Not applicable.

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no REACH candidate substance.

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

15.2 Chemical Safety Assessment

No chemical safety assessment has been carried out.

16 OTHER INFORMATION

Legend:

°C – Degrees Celsius

°F – Degrees Fahrenheit

ADR – European Agreement concerning the International Carriage of Dangerous Goods by Road.

ACGIH – American Conference of Governmental Industrial Hygienists

ATE – Acute Toxicity Estimate

BCF – Bioconcentration Factor

BEI – Biological Exposure Index

CAS – Chemical Abstracts Service

CLP – Regulation (EC) No 1272/2008 on the Classification, Labeling and Packaging of substances and mixtures.

cP – centipoise (unit of dynamic viscosity)

cSt – centistokes (unit of kinematic viscosity)

DNEL – Derived No-effect Level

EC50 – Half maximal effective concentration

ECHA – European Chemicals Agency

EC-No. – European Community number

EU – European Union

GHS – Globally Harmonized System of Classification and Labelling of Chemicals

h – Hours

IATA – International Air Transport Association

IDLH – Immediately Dangerous to Life or Health

IMDG – International Maritime Dangerous Goods

IOELV – Indicative Occupational Exposure Limit Value

kPa – kilopascal

Kow – Octanol-Water Partition Coefficient

LC50 – Median Lethal Concentration

LD50 – Median Lethal Dose

mg/l – Milligram per liter

mg/kg – Milligram per kilogram

mg/m³ – Milligram per cubic meter

Min – Minutes

NIOSH – National Institute for Occupational Safety and Health

NOEC – No Observed Effect Concentration

N.O.S. – Not Otherwise Specified

OEL – Occupational Exposure Limit

PBT - Persistent, Bioaccumulative and Toxic

ppm – Parts per million

PVC – Polyvinyl chloride

REACH - Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006

RID – European Agreement concerning the International Carriage of Dangerous Goods by Rail

SDS – Safety Data Sheet

STEL – Short Term Exposure Limit

TLV – Threshold Limit Value

TWA – Time Weighted Average

UN – United Nations

vPvB - Very Persistent and Very Bioaccumulative

Key literature references and sources for data

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

Relevant H- and EUH- Phrases:

Acute Tox. 4 (Oral) : Acute toxicity (oral), Category 4

Eye Dam. 1 : Serious eye damage/eye irritation, Category 1

Eye Irrit. 2 : Serious eye damage/eye irritation, Category 2

Ox. Sol. 3 : Oxidising Solids, Category 3

Skin Irrit. 2 : Skin corrosion/irritation, Category 2

H272 : May intensify fire; oxidiser.

H302 : Harmful if swallowed.

H315 : Causes skin irritation.

H318 : Causes serious eye damage.

H319 : Causes serious eye irritation.

EUH210 : Safety data sheet available on request.

Disclaimer: We believe the statements, technical information and recommendations contained herein are reliable, but they are given without warranty or guarantee of any kind. The information contained in this document applies to this specific material as supplied. It may not be valid for this material if it is used in combination with any other materials. It is the user's responsibility to satisfy oneself as to the suitability and completeness of this information for the user's own particular use.

The information given in this Safety Data Sheet is based on our present knowledge on European and regulations. This Safety Data Sheet describes safety requirements relative to identified uses, it does not guarantee all the product properties particularly in the case of non-identified uses. The product must not be used for any uses other than those identified under heading 1. Since the user's working conditions are not known by us, it is the responsibility of the user to take all necessary measures to comply with legal requirements for specific uses and avoid negative health effects.

Notification:

English is acceptable for our MSDS as the following conditions are met:

- Medical specialists (users) are well educated in the English language

WASH BUFFER

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Wash Buffer

Catalog #: Component of the kit mentioned on the first page

1.2 Intended Use

To be used as a component with ELISA kits according to the instructions provided with the kit.

1.3 Company

DIAsource ImmunoAssays S.A.
Rue du Bosquet, 2
B-1348 Louvain-la-Neuve
Belgium
Tel. Nr. +32 (0)10/84.99.11
E-mail: products.support@diasource.be

1.4 Emergency telephone

DIAsource (only office hours): +32 (0)10/84.99.23
Centre Anti-Poisons (BE) 070 245 245
Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

The mixture is not classified as dangerous in accordance with the regulation (EC) n°1272/2008.

2.2 Label elements

Danger symbol	None.
Signal word	None.
Product Identifier	None.
Danger	None.
Supplemental Hazard Information	None.
Prevention statements	None.
Response statements	None.
Storage statements	None.
Disposal statements	None.

2.3 Other hazards

PBT & vPvB: PBT: Not applicable
vPvB: Not applicable

3 COMPOSITION/INFORMATION ON INGREDIENTS

No substances fulfill the criteria set forth in annex II section A of the REACH regulation (EC) n°1907/2006.

4 FIRST AID MEASURES

4.1 Description of first aid measures

General information	In general, in case of doubt or if symptoms persist, always call a doctor. Never give anything by mouth to an unconscious person.
Following inhalation	Move victim to fresh air. If not breathing, apply artificial respiration. If breathing difficult, give oxygen. Consult a physician if you feel unwell.
Following skin contact	IF ON SKIN (or hair): Immediately remove contaminated clothing. Rinse skin with water / with vegetable oil. Take a shower. If irritation or rash occurs: Get medical advice.
Following eye contact	IF IN EYES: Rinse cautiously with vegetable oil for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Following ingestion	IF SWALLOWED: Rinse thoroughly mouth with water. Immediately call a POISON CENTER/doctor. Do NOT induce vomiting.
For emergency responders	No data available.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms	No data available.
Effects	No data available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat according to symptoms.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Appropriated: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Dry powder, carbone dioxide, water spray or regular foam.

Inappropriated: No data available.

5.2 Special hazards arising from the substance or mixture

No data available.

Hazardous combustion products: carbon oxides and nitrogen oxides.

5.3 Advice for fire fighters

Wear appropriate apparatus of breathing and protective clothing.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Evacuate all personnel from danger area.

Use required personal protective equipment.

Ensure adequate ventilation, especially in confined areas.

6.2 Environmental Precautions

Avoid release to the environment.

Avoid contamination of drains, surface water and groundwater.

6.3 Methods and material for containment and cleaning-up

Contain and collect spillage.

Use an absorbent material such as sand, ground, vermiculite, ground diatoms for waste disposal and prevention of penetration in sewers or rivers.

6.4 Reference to other sections

Refer to sections: 7 safe handling, 8 for personal protective equipments, 13 for disposal

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Keep containers tightly closed in a dry, cool and well-ventilated place.

7.3 Specific Use(s)

No data available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

This product does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

8.2 Exposure controls

Appropriate engineering controls	Showers. Eyewash stations. Ventilation systems.
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Eye/body protection: Wear protective safety glasses/gloves/clothing is recommended.

Respiratory protection: Generally not necessary in well ventilated areas (unless otherwise stated). Ensure adequate ventilation.

Hygiene measures: Do not drink, eat or smoke near the product. Wash hands before and after handling.

Environmental exposure controls Avoid release to the environment.

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Not available.
Color	Not available.
Odour	Not available.
Odor threshold	Not available.
pH	Not available.
Melting / Freezing point	Not available.
Boiling point	Not available.
Flash point	Not available.
Evaporation rate	Not available.
Flammability	Not available.
Lower limit of flammability or explosive	Not available.
Upper limit of flammability or explosive	Not available.
Vapour pressure	Not available.
Vapour density	Not available.
Relative density	Not available.
Water solubility	Not available.
Solubility in other Solvents	Not available.
Log Kow	Not available.
Auto-inflammability temperature	Not available.
Decomposition temperature	Not available.
Viscosity	Not available.
Explosive properties	Not available.
Oxidizing properties	Not available.
Refractive index	Not available.

9.2 Other information

No data available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical Stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to Avoid

Extremes of temperature and direct sunlight.

10.5 Incompatible materials

Strong oxidizing agents. Bases

10.6 Hazardous Decomposition Products

Not available.

11 TOXICOLOGICAL INFORMATION

Acute toxicity

Sodium chloride:

LD50 (oral, rat) = 3,000 mg/kg
LD50 (dermal, rabbit) > 10,000 mg/kg
LC50 (inhalation, rat) > 42,000 mg/m³ (1h)

Tris (hydroxymethyl)aminomethane:

LD50 (oral, rat) = 5,900 mg/kg

Skin corrosion

No data available.

Eye damage

No data available.

Respiratory sensibilisation

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Toxic for reproduction

No data available.

Unique specific toxicity

No data available.

Repeated specific toxicity

No data available.

Aspiration hazard

No data available.

Other information

No data available.

12 ECOLOGICAL INFORMATION

12.1 Ecotoxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulation

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

No data available.

12.6 Other adverse effects

No data available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

No data available.

13.2 Waste code numbers/Waste identification

No data available.

14 TRANSPORT INFORMATION

	ADR	ADN/ADNR	IMDG	ICAO
14.1. UN number	Not applicable			
14.2. UN proper shipping name	Not applicable			
14.3. Transport hazard class(es)	Not applicable		Not applicable	Not applicable
14.4. Packing group	Not applicable		Not applicable	Not applicable
14.5. Environmental hazards	Not available	Not available	Not available	Not available
Hazard label	Not applicable			
Classification code	Not applicable			
14.6. Special precautions for user	Not available			
14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not available			
Other information	Not available	Not available	Not available	Not available

15 REGULATORY INFORMATION

15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture

No data available.

15.2 Chemical Safety Assessment

No data available.

16 OTHER INFORMATION

Key or legend to abbreviations and acronyms

ADN/ADNR: Regulations concerning the transport of dangerous substances in barges on inland waterways.

ADR/RID: European Agreement concerns the International Carriage of Dangerous Goods by Road/ Regulations concerning the international carriage of dangerous goods by rail.

CAS No.: Chemical Abstract Service Number

CLP: Classification, Labelling and Packaging

Key literature references and sources for data

No data available.

Procedure used to derive the classification according to regulation (EC) n°1272/2008 (CLP)

Classification of the mixture is consistent with the method of valuation of regulation (EC) n°1272/2008.

List of relevant hazard statements and/or precautionary statements. (Full text of any statements which are not written out in full under section 3)

Hazard statements (H): None

Advice on any training appropriate for workers to ensure protection of human health and the environment

No data available

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