

# Material Safety Data Sheet

According to 91/155 EEC

This Material Safety Data Sheet applies to all the Diaclone *High Sensitivity ELISA kits using Amplification steps*

## 1/ Data on components

Regarding components comprised in the kit, the following products are defined as hazardous chemical according the Directive 67/548/EEC

Accordingly, Material Safety Data Sheet(s) for the following chemical(s) are enclosed:

**Sodium Azide:** at a final concentration of 0,1-1% is used as a preservative in the following components of the kit:  
*Standard Diluent Buffer, Standard Diluent Human Serum, Detection Antibody, Biotinylated Antibody Diluent.*

**ProClin 300:** at a final concentration from 0,01-0,1% is used as a preservative in the following components of the kit:  
HRP Diluent, *Streptavidin-HRP*

**H<sub>2</sub>O<sub>2</sub>:** at a final concentration of 0.01% is used in *Amplification Diluent*

**Sulfuric Acid:** at a final concentration 1N in aqueous solution is used in *Stop Reagent*

**Tetramethylbenzidine (TMB):** is used as a chromogen in the *TMB Solution*.

Other chemical contained within these products do not meet definition of a hazardous chemical according EC Directives.

## 2/ General information

The above information is believed to be correct but does not purport to be al inclusive and shall be used only as a guide. DIACLONE SAS shall not be liable for any damages resulting from handling or from contact with the above products.

### Section 1 - Identification of substance

<b>Product Identification:</b>	High Sensitivity ELISA kits using Amplification steps <u>Standard Diluent Buffer</u> <u>Standard Diluent Human Serum</u> <u>Detection Antibody</u> <u>Biotinylated Antibody Diluent</u>		
<b>Manufacturer:</b>	DIACLONE SAS 1, Bd Fleming BP 1985 F-25020 Besançon cedex France		
	Tel: +33 3 81 41 38 38 Fax: +33 3 81 41 36 36 e-mail: info@diacclone.com www.diacclone.com		

### Section 2 - Data on components

**Chemical characterization:** Preparation

Hazardous ingredients:	%	CAS Number	EC Number
Sodium Azide	0,1-1%	26628-22-8	247-852-1
		T+ ;R28-R32; N; R-50-53	

**Additional information:**

The data and advice relate to the concentrations not of the lyophilized powder, but of the prepared solution

### Section 3 - Hazard Identification

**Hazard Description:** not applicable

**Information concerning to particular hazards to man and environment:** not applicable

### Section 4 - First Aid Measures

**General information** No special measures required

**After inhalation** Supply fresh air; consult doctor in case of complaints

**After skin contact** Generally the product does not irritate the skin

**After eye contact** Rinse opened eye for several minutes under running water

**After ingestion** If symptoms persist consult doctor

# Material Safety Data Sheet

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## Section 5 - Fire Fighting Measures

### Suitable extinguishing agents

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment** No special measures required

## Section 6 - Accidental Release Measures

**Person-related safety precautions:** Not required

### Measures for environmental protections

Dilute with plenty of water.

Do not allow to enter sewers / surface or ground water.

### Measures for cleaning / collecting

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## Section 7- Handling and storage

### Handling:

**Information for safe handling:** Avoid breathing dust, vapor, mist or gas. Avoid contact with eyes, skin and clothing.

Keep container tightly closed. Use with adequate ventilation.

**Information about fire - and explosion protection:**

The product listed in this MSDS contains sodium azide, a chemical highly toxic in pure form. At product concentrations, though not classified as hazardous, concentration build-ups of sodium azide may react with lead and copper plumbing to form highly explosive metal oxides. Flush with large volumes of water to prevent azide build-up in plumbing.

### Storage:

**Requirement to be met by storerooms and receptacles:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals.

**Information about storage in one common storage facility:** Not required

**Further information about storage conditions:** None

### Storage class:

Class according to regulation on flammable liquids: void

## Section 8 - Exposure Controls / Personal Protection

**Additional information about design of technical facilities:** No further data; see section 7

### Ingredients with limit values that require monitoring at the workplace

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

### Personal protective equipment

#### General protective and hygienic measures

The usual precautionary measures are to be adhered to when handling chemicals

**Respiratory protection:** Not required

**Protection of hands:** Protective gloves

**Eye Protection:** Goggles recommended during refilling

## Section 9 - Physical and Chemical Properties

**Form:** Liquid

<b>Colour:</b>	Standard Diluent Buffer	Standard Diluent Human Serum	Detection Antibody	Biotinylated Antibody Diluent
	Light yellow	opaque yellow	colourless	blue

**Odour:** Odourless

**Melting point/Melting range:** N/A

**Boiling point/Boiling range:** N/A

**Flash point:** Not applicable

**Autoignition temperature:** N/A

**Danger of explosion:** Product does not present an explosion hazard

**Density:** N/A

**Solubility in / Miscibility with**

water : fully miscible

# Material Safety Data Sheet

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## Section 10 - Stability and Reactivity

**Thermal decomposition:** No decomposition if used according to specifications

**Dangerous reaction:** No dangerous reactions known

**Dangerous decomposition products:** No dangerous decomposition products known

## Section 11 - Toxicological Information

**Route of entry:** Skin Contact, Eye contact, Inhalation, Ingestion

**Effects of acute exposure to Product:**

Acute poisoning may cause gastrointestinal irritation and renal failure. May be fatal if inhaled, swallowed or absorbed through the skin.

**Effects of chronic exposure to Product:**

Chronic ingestion may result in salicylism which is characterized by nausea, vomiting, gastrointestinal ulcers, and hemorrhagic strokes. Laboratory experiments have shown mutagenic effects. Target organs: Kidneys and central nervous system.

<b>Exposure Limits</b>	<b>Irritancy</b>	<b>Sensitization To Product</b>	<b>Carcinogenicity</b>
N/A	N/A	N/A	N/A
<b>Terratogenicity</b>	<b>Reproductive Toxicity</b>	<b>Mutagenicity</b>	<b>Synergistic Products</b>
N/A	N/A	N/A	N/A

## Section 12 - Ecological Information

**General Notes:** hazardous for water

Do not allow product to reach ground water, water course or sewage system

Danger to drinking water even if small quantities leak into the ground.

## Section 13 - Disposal considerations

**Waste disposal:** dispose of in accordance with local official environmental regulations

## Section 14 - Transport Information

**Special shipping information:** N/A

## Section 15 - Regulations

**Labelling according to European labelling guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EC Directives.

## Section 16 - Other information

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

**Prepared by:** Marketing Department

**Phone N°:**+33 3 81 41 38 38

**Date:** Oct 05

# Material Safety Data Sheet

According to 91/155 EEC

## Section 1 - Identification of substance

**Product Identification:** High Sensitivity ELISA kits using Amplification steps  
HRP Diluent  
Streptavidin-HRP

**Manufacturer:** DIACLONE SAS  
 1, Bd Fleming  
 BP 1985  
 F-25020 Besançon cedex  
 France

Tel: +33 3 81 41 38 38  
 Fax: +33 3 81 41 36 36  
 e-mail: info@diacclone.com  
 www.diacclone.com

## Section 2 - Data on components

**Chemical characterization:** Preparation

Hazardous ingredients:	%	CAS Number	EC Number
Proclin 300	0,01-0,1%	110-98-5	203-821-4
R34; R43; S26; S36/37/39; S45			

**Additional information:**

The data and advice relate to the concentrations not of the lyophilized powder, but of the prepared solution

## Section 3 - Hazard Identification

**Hazard Description:** not applicable

**Information concerning to particular hazards to man and environment:** not applicable

## Section 4 - First Aid Measures

**General information** No special measures required

**After inhalation** Supply fresh air; consult doctor in case of complaints

**After skin contact** Generally the product does not irritate the skin

**After eye contact** Rinse opened eye for several minutes under running water

**After ingestion** If symptoms persist consult doctor

## Section 5 - Fire Fighting Measures

**Suitable extinguishing agents**

CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment** No special measures required

## Section 6 - Accidental Release Measures

**Person-related safety precautions:** Not required

**Measures for environmental protections**

Dilute with plenty of water.

Do not allow to enter sewers / surface or ground water.

**Measures for cleaning / collecting**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## Section 7- Handling and storage

**Handling:**

**Information for safe handling:** Avoid breathing dust, vapor, mist or gas. Avoid contact with eyes, skin and clothing.

Keep container tightly closed. Use with adequate ventilation.

**Information about fire - and explosion protection:** Not special measures required

**Storage:**

**Requirement to be met by storerooms and receptacles:** Store in a cool, dry, well-ventilated area away from incompatible substances. Keep away from metals.

**Information about storage in one common storage facility:** Not required

**Further information about storage conditions:** None

**Storage class:**

Class according to regulation on flammable liquids: void

# Material Safety Data Sheet

According to 91/155 EEC

## Section 8 - Exposure Controls / Personal Protection

**Additional information about design of technical facilities:** No further data; see section 7

**Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

**Personal protective equipment**

**General protective and hygienic measures**

The usual precautionary measures are to be adhered to when handling chemicals

**Respiratory protection:** Not required

**Protection of hands:** Protective gloves

**Eye Protection:** Goggles recommended during refilling

## Section 9 - Physical and Chemical Properties

**Form:** Liquid

**Colour:** colourless

**Odour:** Odourless

**Melting point/Melting range:** N/A

**Boiling point/Boiling range:** N/A

**Flash point:** Not applicable

**Autoignition temperature:** N/A

**Danger of explosion:** Product does not present an explosion hazard

**Density:** N/A

**Solubility in / Miscibility with**

water : fully miscible

## Section 10 - Stability and Reactivity

**Thermal decomposition:** No decomposition if used according to specifications

**Dangerous reaction:** No dangerous reactions known

**Dangerous decomposition products:** No dangerous decomposition products known

## Section 11 - Toxicological Information

**Route of entry:** Skin Contact, Eye contact, Inhalation, Ingestion

**Effects of acute exposure to Product:**

No irritant effect on the skin, eyes. No sensitizing effects known.

**Additional toxicological information:**

The product is not subject to classification according to the calculation method of the General EC Guidelines.

<b>Exposure Limits</b>	<b>Irritancy</b>	<b>Sensitization To Product</b>	<b>Carcinogenicity</b>
N/A	N/A	N/A	N/A
<b>Terratogenicity</b>	<b>Reproductive Toxicity</b>	<b>Mutagenicity</b>	<b>Synergistic Products</b>
N/A	N/A	N/A	N/A

## Section 12 - Ecological Information

**General Notes:** Generally not hazardous for water

## Section 13 - Disposal considerations

**Waste disposal:** dispose of in accordance with local official environmental regulations

## Section 14 - Transport Information

**Special shipping information:** N/A

## Section 15 - Regulations

**Labelling according to European labelling guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EC Directives.

## Section 16 - Other information

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

**Prepared by:** Marketing Department

**Phone N°:**+33 3 81 41 38 38

**Date:** Oct 05

# Material Safety Data Sheet

According to 91/155 EEC

## Section 1 - Identification of substance

**Product Identification:** High Sensitivity ELISA kits using Amplification steps  
Amplification Diluent

**Manufacturer:** DIACLONE SAS  
1, Bd Fleming  
BP 1985  
F-25020 Besançon cedex  
France

Tel: +33 3 81 41 38 38  
Fax: +33 3 81 41 36 36  
e-mail: info@diacclone.com  
www.diacclone.com

## Section 2 - Data on components

**Chemical characterization:** Preparation

Hazardous ingredients:	%	CAS Number	EC Number
Hydrogen peroxyde	0,01%	7722-84-1	231-765-0
	R5 - O; R8 - C; R35- Xn; R20/22		

## Section 3 - Hazard Identification

Harmful if swallowed. Irritating to respiratory system and skin. Risk of serious damage to eyes.

## Section 4 - First Aid Measures

**General information** No special measures required  
**After inhalation** Supply fresh air; consult doctor in case of complaints  
**After skin contact** Wash off with plenty of water. Remove contaminated clothing  
**After eye contact** Rinse opened eye for several minutes under running water  
**After ingestion** Immediately make victim drink plenty of water. Call in physician

## Section 5 - Fire Fighting Measures

**Suitable extinguishing agents**  
CO<sub>2</sub>, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.  
**Protective equipment** No special measures required

## Section 6 - Accidental Release Measures

**Person-related safety precautions**  
Do not inhale vapours/aerosols. Avoid substance contact. Ensure supply of fresh air in enclosed.  
**Measures for environmental protections**  
Do not allow to enter sewers / surface or ground water.  
**Measures for cleaning / collecting**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## Section 7- Handling and storage

**Handling:**  
No further requirements  
**Storage:**  
Tightly closed. Away from combustible materials and sources of ignition and heat. Below +25°C.  
  
Protected from light  
Requirements for storage rooms and containers:  
Close containers in such a way to enable internal pressure to escape (e.g. excess pressure valve)

## Section 8 - Exposure Controls / Personal Protection

**Additional information about design of technical facilities:** No further data; see section 7  
**Ingredients with limit values that require monitoring at the workplace**  
The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.  
**Personal protective equipment**  
**General protective and hygienic measures**  
The usual precautionary measures are to be adhered to when handling chemicals  
**Respiratory protection:** Not required  
**Protection of hands:** Protective gloves

# Material Safety Data Sheet

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**Eye Protection:** Goggles recommended during refilling

## Section 9 - Physical and Chemical Properties

**Form:** Liquid  
**Colour:** colourless  
**Odour:** Odourless  
**Melting point/Melting range:** ~ -24°C  
**Boiling point/Boiling range:** ~ 110°C  
**Flash point:** N/A  
**Autoignition temperature:** N/A  
**Danger of explosion:** Product does not present an explosion hazard  
**Density:** (20°C) 1.13 g/cm<sup>3</sup>  
**Solubility in / Miscibility with water :** fully miscible

## Section 10 - Stability and Reactivity

**Conditions to be avoided:** Heating  
**Substances to be avoided:** Risk of explosion with: / Risk of ignition or formation of inflammable gases or vapors with oxidizing materials  
**Dangerous decomposition products:** No dangerous decomposition products known

## Section 11 - Toxicological Information

**Route of entry:** Skin Contact, Eye contact, Inhalation, Ingestion

**Effects of acute exposure to Product:**

May cause skin and eye irritation, may be harmful if absorbed through the skin, may cause irritations to mucous membranes and upper respiratory tract, may be harmful if swallowed

**Further data:**

Further hazardous properties cannot be excluded.

The product should be handled with the care usual when dealing with chemical.

<b>Exposure Limits</b>	<b>Irritancy</b>	<b>Sensitization To Product</b>	<b>Carcinogenicity</b>
N/A	N/A	N/A	N/A
<b>Teratogenicity</b>	<b>Reproductive Toxicity</b>	<b>Mutagenicity</b>	<b>Synergistic Products</b>
N/A	N/A	N/A	N/A

## Section 12 - Ecological Information

**General Notes:** Generally not hazardous for water

## Section 13 - Disposal considerations

**Waste disposal:** dispose of in accordance with local official environmental regulations

## Section 14 - Transport Information

**Special shipping information:** N/A

## Section 15 - Regulations

**Labelling according to European labelling guidelines:**

Observe the general safety regulations when handling chemicals.

The product is not subject to identification regulations under EC Directives.

## Section 16 - Other information

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

**Prepared by:** Marketing Department

**Phone N°:** +33 3 81 41 38 38

**Date:** Oct 05

# Material Safety Data Sheet

According to 91/155 EEC

## Section 1 - Identification of substance

**Product Identification:** High Sensitivity ELISA kits using Amplification steps  
Stop Reagent

**Manufacturer:** DIACLONE SAS  
1, Bd Fleming  
BP 1985  
F-25020 Besançon cedex  
France

Tel: +33 3 81 41 38 38  
Fax: +33 3 81 41 36 36  
e-mail: info@diacclone.com  
www.diacclone.com

## Section 2 - Data on components

**Chemical characterization:** Preparation

Hazardous ingredients:	Concentration	CAS Number	EC Number
Sulfuric Acid	1 N	7664-93-9	231-639-5
C ; R 35			

## Section 3 - Hazard Identification

**Hazard Description:** C Corrosive



Information concerning to particular hazards to man and environment: causes burns

## Section 4 - First Aid Measures

**General information** Immediately remove any clothing soiled by the product.

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

**After skin contact** Immediately wash with plenty of water and soap and rinse thoroughly.

**After eye contact** Rinse opened eye for several minutes under running water. Then consult a physician.

**After ingestion** Do not induce vomiting; if conscious, give water, milk or milk magnesia. Call for a physician immediately.

## Section 5 - Fire Fighting Measures

**Suitable extinguishing agents**

Use dry chemical or carbon dioxide. Do not use water.

**Protective equipment** No special measures required

## Section 6 - Accidental Release Measures

**Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

**Measures for environmental protections**

Prevent seepage into sewage system, workpits and cellars.

Dilute with plenty of water.

Do not allow to enter sewers/ surface or ground water.

**Measures for cleaning / collecting**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Use neutralizing agent.

Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

## Section 7- Handling and storage

**Handling:**

**Information for safe handling:** Avoid contact with eyes, skin and clothing. Do not breath vapor. Keep container tightly closed.

**Information about fire - and explosion protection:** No special measures required.

**Storage:**

**Storage requirement:**

Keep in tightly closed container. Store separately and away from flammables and combustible materials.

# Material Safety Data Sheet

According to 91/155 EEC

## Section 8 - Exposure Controls / Personal Protection

**Additional information about design of technical facilities:** No further data; see section 7

**Ingredients with limit values that require monitoring at the workplace**

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

**Personal protective equipment**

**General protective and hygienic measures**

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work. Avoid contact with eyes and skin.

**Respiratory protection:** Not required

**Protection of hands:** Protective acid resistant gloves

**Eye Protection:** Tightly sealed goggles

## Section 9 - Physical and Chemical Properties

**Form:** Liquid

**Colour:** Colourless

**Odour:** Odourless

**Melting point/Melting range:** N/A

**Boiling point/Boiling range:** N/A

**Flash point:** Not applicable

**Autoignition temperature:** N/A

**Danger of explosion:** Product does not present an explosion hazard

**Density:** N/A

**Solubility in / Miscibility with**

water : fully miscible

## Section 10 - Stability and Reactivity

**Thermal decomposition:** No decomposition if used according to specifications

**Reactivity and under what conditions:**

A violent exothermic reaction occurs with water. Avoid contact with alkaline solutions, metals, metals powder, chlorates, nitrates, strong oxidizing or reducing materials, and combustible organic materials.

**Hazardous decomposition products (concentrated SULFURIC ACID):**

Toxic fumes of oxides of sulfur when heated to decomposition. Will react with water or steam to produce toxic and corrosive fumes. Reacts with carbonates to generate carbon dioxide gas, and with cyanides and sulfides to form poisonous hydrogen cyanide and hydrogen sulfide respectively.

## Section 11 - Toxicological Information

**Route of entry:** Skin Contact, Eye contact, Inhalation, Ingestion

**Effects of acute exposure to Product:**

Contact with skin or eyes may cause severe irritation or burns. Vapors may be irritating to eyes, nose, and throat.

Poison may be fatal if swallowed, causes burns.

**Effects of chronic exposure to Product:**

Long term exposure to mist or vapors may cause damage to teeth. Chronic exposure to mists containing sulfuric acid is a cancer hazard.

Exposure Limits	Irritancy	Sensitization To Product	Carcinogenicity
N/A	N/A	N/A	N/A
Teratogenicity	Reproductive Toxicity	Mutagenicity	Synergistic Products
N/A	N/A	N/A	N/A

## Section 12 - Ecological Information

**General Notes:** hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Must not reach sewage water or drainage ditch undiluted or unneutralized.

Danger to drinking water even if small quantities leak into the ground.

# Material Safety Data Sheet

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## Section 13 - Disposal considerations

**Waste disposal:** dispose of in accordance with local official environmental regulations

## Section 14 - Transport Information

### Special shipping information:

	<u>Domestic (D.O.T)</u>	<u>International (I.M.O)</u>
Proper Shipping Name:	Sulfuric Acid (with not more than 51% acid)	Sulfuric Acid (with not more than 51% acid)
Hazard Class:	Class 8 - UN2796	Class 8 - UN2796
Reportable quantity - Packaging Group	200L - III	200L - III

## Section 15 - Regulations

### Labelling according to European labelling guidelines:

Observe the general safety regulations when handling chemicals.

The product has been classified and marked according EC Directives.

**Code letter and hazard designation of product:** C Corrosive

## Section 16 - Other information

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

**Prepared by:** Marketing Department

**Phone N°:**+33 3 81 41 38 38

**Date:** Oct 05

# Material Safety Data Sheet

According to 91/155 EEC

## Section 1 - Identification of substance

**Product Identification:** High Sensitivity ELISA kits using Amplification steps  
TMB (3,3',5,5'-Tetramethylbenzidine solution)

**Manufacturer:** DIACLONE SAS  
1, Bd Fleming  
F-25000 Besançon  
France

Tel: +33 3 81 41 38 38  
Fax: +33 3 81 41 36 36  
e-mail: info@diacclone.com  
www.diacclone.com

## Section 2 - Data on components

**Chemical characterization:** Preparation

The following data is for the 100% chemical as no data is available on the solution.

Hazardous ingredients:	%	CAS Number	EC Number
3,3',5,5'-Tetramethylbenzidine		54827-17-7	259-364-6
T ; R 23/24/25			

## Section 3 - Hazard Identification

**Hazard Description:** not applicable

**Information concerning to particular hazards to man and environment:** Not applicable

## Section 4 - First Aid Measures

**After inhalation:** Remove from exposure to fresh air immediately. Consult a physician in case of complaints.

**After skin contact:** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes.

**After eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower lid.

**After ingestion** Do not induce vomiting; allow the victim to rinse his mouth and then drink 2-4 cupfuls of water, and seek medical advice.

## Section 5 - Fire Fighting Measures

**Suitable extinguishing agents**

Use dry chemical, carbon dioxide or water spray. Fight larger fires with water spray or alcohol resistant foam.

**Protective equipment** No special measures required

## Section 6 - Accidental Release Measures

**Person-related safety precautions:** Not required.

**Measures for environmental protections:** No special measures required.

**Measures for cleaning / collecting**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## Section 7- Handling and storage

**Handling:**

**Information for safe handling:** Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.

**Information about fire - and explosion protection:** No special measures required.

**Storage:**

**Storage requirement:**

Store in a cool, dry place. Keep container closed when not in use. Refrigerate (~ 4°C).

# Material Safety Data Sheet

According to 91/155 EEC

## Section 8 - Exposure Controls / Personal Protection

**Additional information about design of technical facilities:** No further data; see section 7

**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of material with critical values that have to be monitored at the workplace.

**Personal protective equipment**

**General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

**Respiratory protection:** Not required.

**Protection of hands:** Protective gloves.

**Eye Protection:** Goggles recommended during refilling.

## Section 9 - Physical and Chemical Properties

**Form:** Liquid

**Colour:** Clear

**Odour:** Odourless

**Melting point/Melting range:** N/A

**Boiling point/Boiling range:** N/A

**Flash point:** Not applicable

**Autoignition temperature:** N/A

**Danger of explosion:** Product does not present an explosion hazard

**Density:** N/A

**Solubility in / Miscibility with**

water : fully miscible

## Section 10 - Stability and Reactivity

**Thermal decomposition:** No decomposition if used according to specifications

**Reactivity and under what conditions:**

Incompatibles with bases, amines, alkali metals, copper, copper alloys

**Hazardous decomposition products**

Toxic fumes of oxides of carbon monoxide, carbon dioxide, nitrous oxides, hydrogen chloride gas, hydrogen bromide gas, phosphorous oxides.

## Section 11 - Toxicological Information

**Route of entry:** Skin Contact, Eye contact, Inhalation, Ingestion

**Effects of acute exposure to Product:**

Contact with skin or eyes may cause severe irritation or burns. Vapors may be irritating to eyes, nose, and throat.

**Effects of chronic exposure to Product:** N/A

<b>Exposure Limits</b>	<b>Irritancy</b>	<b>Sensitization To Product</b>	<b>Carcinogenicity</b>
N/A	N/A	N/A	N/A
<b>Terratogenicity</b>	<b>Reproductive Toxicity</b>	<b>Mutagenicity</b>	<b>Synergistic Products</b>
N/A	N/A	N/A	N/A

## Section 12 - Ecological Information

**General Notes:** N/A

## Section 13 - Disposal considerations

**Waste disposal:** dispose of in accordance with local official environmental regulations

## Section 14 - Transport Information

**Special shipping information:**

Does not need to be shipped as hazardous.

## Section 15 - Regulations

**Labelling according to European labelling guidelines:**

Observe the general safety regulations when handling chemicals.

## Section 16 - Other information

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

**Prepared by:** Marketing Department

**Phone N°:** +33 3 81 41 38 38

**Date:** Oct 05