

KIT**1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY****1.1 Product identifier**

Product Name: 5-HIAA ELISA

Catalog #: KAPL10-1900

Kit Components:	Adhesive foil	Antiserum
	Reaction plate	Standards
	Wash Buffer	Controls
	Enzyme Conjugate	Diluent
	Substrate	Assay Buffer
	Stop Solution	Methylation Buffer
	Microtiterwells	Methylation Reagent

1.2 Intended Use

For In Vitro Diagnostic Use. The product is intended for professional 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)10/84.99.11

Centre Anti-Poisons (BE) 070 245 245

Please refer to your local Anti-Poison Center!

2 OTHER INFORMATION**2.1 Labeling of microtiterplate:**

Each well can only be used once

2.2 Non dangerous component

Not listed components contain no hazardous substance in concentrations to be declared, a labeling is not required.

STOP SOLUTION

1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY

1.1 Product identifier

Product Name: Stop Solution

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

1.2 Intended Use

Laboratory reagent / Immunoassay. The product is intended for professional use.

1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

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Please refer to your local Anti-Poison Center!

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

REGULATION (EC) No 1272/2008

Corrosive to metals, Category 1, H290

Skin corrosive, Category 1A, H314

2.2 Label elements

REGULATION (EC) No 1272/2008



Hazard pictograms:

Signal word: Warning

Hazard statements:

H290 May be corrosive to metals.

Precautionary statements:

P234 Keep only in original packaging.

P390 Absorb spillage to prevent material damage.

2.3 Other hazards

None known.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Mixture****Composition / information on ingredients**

CAS: 7664-93-9

sulphuric acid

 $\geq 1 \% - < 5 \%$

H290; H314

Additional information

For the full text of the H-Statements mentioned in this section, see section 16.

4 FIRST AID MEASURES**4.1 Description of first aid measures****After inhalation:** fresh air, consult doctor in case of complaints.**After skin contact:** wash off with plenty of water. Remove contaminated clothing.**After eye contact:** rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.**After swallowing:** drink water (two glasses at most). Consult doctor if feeling unwell.**4.2 Most important symptoms and effects, both acute and delayed**

Irritant effects.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

5 FIRE FIGHTING MEASURES**5.1 Extinguishing media**Suitable extinguishing media:

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

Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3 Advice for fire fighters

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES**6.1 Personal precaution, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental Precautions

No special precautionary measures necessary.

6.3 Methods and material for containment and cleaning-up

Observe possible material restrictions! Take up with liquid-absorbent and neutralizing material. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about possible material restrictions see sections 7 and 10 and about waste treatment see section 13.

7 HANDLING AND STORAGE**7.1 Precautions for safe handling**

Advice on safe handling:

Observe label precautions.

Hygiene measures:

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions:

Tightly closed and dry.

7.3 Specific Use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

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

8.2 Exposure controls

Engineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures:

General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

Respiratory protection:

In case of good room ventilation, not necessary.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.

Material of gloves:

Chemical protection gloves are to be selected according to the concentration and quantity of the hazardous substance concentration and quantity in workplace.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.



Eye protection:

Tightly sealed goggles

Body protection:

lab coat

9 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Form	liquid
Colour	colourless
Odour	odourless
Odour	Threshold Not applicable
pH	ca. 1.0 at 20 °C
Melting point	No information available
Boiling point/boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Lower explosion limit	No information available
Upper explosion limit	No information available
Vapour pressure	No information available
Relative vapour density	No information available
Density	ca. 1.02 g/cm ³ at 20 °C
Relative density	No information available
Water solubility	at 20 °C soluble
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	Not classified as explosive
Oxidizing properties	none

9.2 Other information

Corrosion: May be corrosive to metals.

10 STABILITY AND REACTIVITY**10.1 Reactivity**

No further relevant information available.

10.2 Chemical Stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to Avoid

No further relevant information available.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous Decomposition Products

No dangerous decomposition products known.

11 TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

No information available.

Skin corrosion/irritation

causes skin irritation

Serious eye damage/irritation

causes eye irritation

Respiratory or skin sensitisation

No sensitizing effects known.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

11.2 Additional information

On the basis of the morphology of the product, no hazardous properties are to be expected when it is handled and used with appropriate care.

Handle in accordance with good industrial hygiene and safety practice.

12 ECOLOGICAL INFORMATION**12.1 Toxicity**

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulation

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

No further relevant information available.

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of packaging according to applicable local, state, and federal regulations.

Packaging's that may not be cleansed are to be disposed of in the same manner as the product.

14 TRANSPORT INFORMATION

This product is part of a kit. Information in this section refers to the kit as a whole.

UN No

3264

UN Proper shipping name

CORROSIVE LIQUID, ACIDIC, INORGANICS, N.O.S.

Class

8

Packing group

III

Environmental hazards

None.

Special precautions for user

None.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture**

EU regulations

Major Accident Hazard: SEVESO III

Not applicable

Employment restrictions:

Observe employment restrictions in accordance with the youth employment protection regulations (94/33/EC).

Substances of very high concern (SVHC):

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH).

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16 OTHER INFORMATION

This information is based 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.

Relevant phrases:

H290

May be corrosive to metals.

H314

Causes severe skin burns and eye damage.

Notification:

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

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

METHYLATION BUFFER**1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY****1.1 Product identifier**

Product Name: Methylation Buffer

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

1.2 Intended Use

Laboratory reagent / Immunoassay. The product is intended for professional use.

1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

B-1348 Louvain-la-Neuve

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Tel. Nr. +32 (0)10/84.99.11

E-mail: products.support@diasource.be**1.4 Emergency telephone**

DIAsource (only office hours): +32 (0)10/84.99.11

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****REGULATION (EC) No 1272/2008**

Flammable liquid, Category 2, H225

Acute toxicity, Category 3, Inhalation, H331

Specific target organ toxicity-single exposure, Category 1, Eyes, H370

2.2 Label elements**REGULATION (EC) No 1272/2008****Hazard pictograms:****Signal word:** Danger**Hazard statements:**

H225 Highly flammable liquid and vapour.

H331 Toxic if swallowed.

H370 Causes damage to organs (eyes).

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P260 Do not breathe dust/fume/ gas/mist/vapours/spray.

P280 Wear protective gloves/ protective clothing.

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

P303 + P361 + P353 IF ON SKIN: Take off immediately all contaminated clothing. Rinse skin with water.
P304 + P340 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container to national regulations.

Other hazards

None known.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Mixture****Composition / information on ingredients**

CAS: 67-56-1 Methanol 25 - 50 %
H225; H301 + H311 + H331; H370

Additional information

For the full text of the H-Statements mentioned in this section, see section 16.

4 FIRST AID MEASURES**4.1 Description of first aid measures**

After inhalation: fresh air, consult doctor in case of complaints.

After skin contact: wash off with plenty of water. Remove contaminated clothing.

After eye contact: rinse out with plenty of water with the eyelid held wide open. Call in ophthalmologist if necessary.

After swallowing: consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed

No further relevant information available.

5 FIRE FIGHTING MEASURES**5.1 Extinguishing media**

Suitable extinguishing media:

Foam, carbon dioxide (CO₂), dry powder, water.

Unsuitable extinguishing media:

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Combustible. In the event of fire, wear self-contained breathing apparatus.

5.3 Advice for fire fighters

Special protective equipment for firefighters:

In the event of fire, wear self-contained breathing apparatus.

6 ACCIDENTAL RELEASE MEASURES**6.1 Personal precaution, protective equipment and emergency procedures**

Advice for non-emergency personnel: Do not breathe vapours, aerosols. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental Precautions

No special precautionary measures necessary.

6.3 Methods and material for containment and cleaning-up

Observe possible material restrictions! Take up with liquid-absorbent and neutralizing material. Dispose of properly. Clean up affected area.

6.4 Reference to other sections

Indications about possible material restrictions see sections 7 and 10 and about waste treatment see section 13.

7 HANDLING AND STORAGE**7.1 Precautions for safe handling**Advice on safe handling:

Work under hood. Do not inhale substance / mixture.

Avoid generation of vapours / aerosols.

Observe label precautions.

Hygiene measures:

Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilitiesStorage conditions:

Tightly closed and dry.

Keep away from open flames, hot surfaces and sources of ignition.

7.3 Specific Use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

67-56-1 Methanol

OEL Long-term value: 130 mg/m³, 100 ml/m³.

8.2 Exposure controlsEngineering measures:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

See section 7.1.

Individual protection measures:General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

Respiratory protection:

In case of good room ventilation, not necessary.

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:

Protective gloves.

Material of gloves:

Chemical protection gloves are to be selected according to the concentration and quantity of the hazardous substance concentration and quantity in workplace.

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Eye protection:

Tightly sealed goggles



Body protection:

lab coat

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Form	liquid
Colour	colourless
Odour	alcoholic
Odour Threshold	Not applicable
pH ca.	7.0 at 20 °C
Melting point	No information available
Boiling point/boiling range	No information available
Flash point	No information available
Evaporation rate	No information available
Flammability (solid, gas)	No information available
Lower explosion limit	No information available
Upper explosion limit	No information available
Vapour pressure	No information available
Relative vapour density	No information available
Density	No information available
Relative density	No information available
Water solubility	at 20 °C soluble
Partition coefficient: n-octanol/water	No information available
Auto-ignition temperature	No information available
Decomposition temperature	No information available
Viscosity, dynamic	No information available
Explosive properties	Not classified as explosive
Oxidizing properties	none

9.2 Other information

No other data available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical Stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

Combustible with strong heating.

10.4 Conditions to Avoid

Warming.

10.5 Incompatible materials

No further relevant information available.

10.6 Hazardous Decomposition Products

No dangerous decomposition products known.

11 TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

No information available.

Skin corrosion/irritation

No irritant effect known.

Serious eye damage/irritation

slight irritation

Respiratory or skin sensitisation

No sensitizing effects known.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Reproductive toxicity

No information available.

STOT-single exposure

No information available.

STOT-repeated exposure

No information available.

Aspiration hazard

No information available.

11.2 Additional information

On the basis of the morphology of the product, no hazardous properties are to be expected when it is handled and used with appropriate care.

Handle in accordance with good industrial hygiene and safety practice.

12 ECOLOGICAL INFORMATION**12.1 Toxicity**

No further relevant information available.

12.2 Persistence and degradability

No further relevant information available.

12.3 Bioaccumulation

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

12.5 Results of PBT and vPvB assessment

Substance(s) in the mixture do(es) not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII, or a PBT/vPvB assessment was not conducted.

12.6 Other adverse effects

Discharge into the environment must be avoided.

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Dispose of packaging according to applicable local, state, and federal regulations.
Packaging's that may not be cleansed are to be disposed of in the same manner as the product.

14 TRANSPORT INFORMATION

This product is part of a kit. Information in this section refers to the kit as a whole.

UN No

No dangerous good in sense of this transport regulation.

UN Proper shipping name

No dangerous good in sense of this transport regulation.

Class

No dangerous good in sense of this transport regulation.

Packing group

No dangerous good in sense of this transport regulation.

Environmental hazards

No.

Special precautions for user

No.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture****EU regulations**

Major Accident Hazard: SEVESO III

Not applicable

Employment restrictions:

Observe employment restrictions in accordance with the youth employment protection regulations (94/33/EC).

Substances of very high concern (SVHC):

This product does contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of ≥ 0.1 % (w/w).
Contains: N,N-dimethylformamide

15.2 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out.

16 OTHER INFORMATION

This information is based 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.

Relevant phrases:

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H331	Toxic if inhaled.
H370	Causes damage to organs (eyes).

Abbreviations:

OEL occupational exposure limit

Notification:

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

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

METHYLATION REAGENT**1 INFORMATION OF THE SUBSTANCE/PREPARATION AND COMPANY****1.1 Product identifier**

Product Name: Methylation Reagent

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

1.2 Intended Use

Laboratory reagent / Immunoassay. The product is intended for professional use.

1.3 Company

DIAsource ImmunoAssays S.A.

Rue du Bosquet, 2

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Belgium

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DIAsource (only office hours): +32 (0)10/84.99.11

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****REGULATION (EC) No 1272/2008**

Flammable liquids, Category 2, H225

Aspiration Toxicity, Category 1, H304

Acute toxicity, Inhalation, Category 1, H330

Carcinogenicity, Category 1B, H350

Reproductive toxicity, Category 2, H361f

Specific target organ toxicity - single exposure, Category 1, H370

Specific target organ toxicity - single exposure, Category 3, Central nervous system, H336

Specific target organ toxicity - repeated exposure, Category 2, H373

Chronic aquatic toxicity, Category 2, H411

2.2 Label elements**REGULATION (EC) No 1272/2008****Hazard pictograms:****Signal word:** Danger**Hazard statements:**

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H330 Fatal if inhaled.

H315 Causes skin irritation.

H370 Causes damage to organs.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.
H361d Suspected of damaging fertility.
H373 May cause damage to organs through prolonged or repeated exposure.
H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.
P331 Do NOT induce vomiting.
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P310 Immediately call a POISON CENTER or doctor/physician.
P280 Wear protective gloves/ protective clothing.

2.3 Other hazards

None known.

3 COMPOSITION/INFORMATION ON INGREDIENTS**Mixture****Composition / information on ingredients**

CAS: 92112-69-1	Hexane, branched and linear	60 - 70 %
H225; H304; H315; H336; H361f; H373; H411		
CAS: 18107-18-1	(Trimethylsilyl)diazomethane	30 - 40 %
H330; H350; H370		

Additional information

For the full text of the H-Statements mentioned in this section, see section 16.

4 FIRST AID MEASURES**4.1 Description of first aid measures**

Show this safety data sheet to the doctor in attendance. Immediate medical attention is required.

Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

Skin contact: Wash off immediately with plenty of water for at least 15 minutes. Immediate medical attention is required.

Ingestion: Do NOT induce vomiting. Call a physician or poison control center immediately. If vomiting occurs naturally, have victim lean forward.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Do not use mouth-to-mouth method if victim ingested or inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Immediate medical attention is required. Risk of serious damage to the lungs (by aspiration).

4.2 Most important symptoms and effects, both acute and delayed

None reasonably foreseeable. Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

4.3 Indication of any immediate medical attention and special treatment needed

Notes to Physician:

Treat symptomatically.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, carbon dioxide (CO₂), dry chemical, alcohol-resistant foam. Water mist may be used to cool closed containers.

5.2 Special hazards arising from the substance or mixture

Risk of ignition. Vapors may form explosive mixtures with air. Vapors may travel to source of ignition and flash back. Containers may explode when heated. Thermal decomposition can lead to release of irritating gases and vapors. Keep product and empty container away from heat and sources of ignition. Extremely flammable.

5.3 Advice for fire fighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear. Thermal decomposition can lead to release of irritating gases and vapours.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precaution, protective equipment and emergency procedures

Use personal protective equipment as required. Ensure adequate ventilation. Keep people away from and upwind of spill/leak. Evacuate personnel to safe areas. Remove all sources of ignition. Take precautionary measures against static discharges.

6.2 Environmental Precautions

Do not flush into surface water or sanitary sewer system.

6.3 Methods and material for containment and cleaning-up

Soak up with inert absorbent material. Keep in suitable, closed containers for disposal. Remove all sources of ignition. Use spark-proof tools and explosion-proof equipment.

6.4 Reference to other sections

Refer to protective measures listed in Sections 8 and 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Wear personal protective equipment/face protection. Do not get in eyes, on skin, or on clothing. Use only under a chemical fume hood. Do not breathe mist/vapors/spray. Do not ingest. If swallowed then seek immediate medical assistance. Keep away from open flames, hot surfaces and sources of ignition. Use only non-sparking tools. To avoid ignition of vapors by static electricity discharge, all metal parts of the equipment must be grounded. Take precautionary measures against static discharges.

Hygiene measures:

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. Keep away from heat, sparks and flame. To maintain product quality: Keep refrigerated.

Technical Rules for Hazardous Substances (TRGS) 510

Storage Class (LGK) (Germany) Class 3.

7.3 Specific Use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION**8.1 Control parameters**

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

8.2 Exposure controlsEngineering measures:

Use only under a chemical fume hood. Ensure that eyewash stations and safety showers are close to the workstation location. Use explosion-proof electrical/ventilating/lighting equipment. Ensure adequate ventilation, especially in confined areas. Wherever possible, engineering control measures such as the isolation or enclosure of the process, the introduction of process or equipment changes to minimise release or contact, and the use of properly designed ventilation systems, should be adopted to control hazardous materials at source.

Individual protection measures:General protective and hygienic measures:

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately. Avoid contact with the eyes and skin.

Respiratory protection:

When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

To protect the wearer, respiratory protective equipment must be the correct fit and be used and maintained properly.

Protection of hands:

Protective gloves.

Material of gloves:

Natural rubber, Nitrile rubber, Neoprene, PVC.

The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374.

Eye protection:

Tightly sealed goggles (European standard - EN 166)

Body protection:

lab coat

9 PHYSICAL AND CHEMICAL PROPERTIES**9.1 Information on basic physical and chemical properties**

Form	Liquid	
Colour	Clear yellow	
Odour	Mild	
Odour Threshold	No data available	
Melting point	No data available	
Softening point	No data available	
Boiling point/ range	96 °C / 204.8 °F	@ 760 mmHg
Flammability (liquid)	Highly flammable	On basis of test data
Flammability (solid, gas)	Not applicable	
Explosion limits	No data available	
Flash point	-23 °C / -9.4 °F	
Auto-ignition temperature	No data available	
Decomposition temperature	No data available	
pH	No information available	
Viscosity	No data available	
Water solubility	Insoluble	
Solubility in other solvents	No information available	
Partition coefficient: n-octanol/water		
Component	log Pow	
Hexane, branched and linear	4.11	
Vapour pressure	No data available	
Density/ Specific Gravity	0.718	
Bulk density	Not applicable	liquid
Vapor density	No data available	(Air = 1.0)
Particle characteristics	Not applicable (liquid).	

9.2 Other information

Explosive Properties

Vapors may form explosive mixtures with air.

10 STABILITY AND REACTIVITY**10.1 Reactivity**

None known, based on information available.

10.2 Chemical Stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Hazardous Polymerization.

Hazardous polymerization does not occur.

Hazardous Reactions.

None under normal processing.

10.4 Conditions to Avoid

Incompatible products. Excess heat. Keep away from open flames, hot surfaces and sources of ignition.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous Decomposition Products

Carbon monoxide (CO). Carbon dioxide (CO₂). Nitrogen oxides (NO_x). Silicon dioxide.

11 TOXICOLOGICAL INFORMATION**11.1 Information on toxicological effects****Acute toxicity**

Oral Based on available data, the classification criteria are not met

Dermal Based on available data, the classification criteria are not met

Inhalation Category 2

Toxicology data for the components

Hexane, branched and linear

LD50 Oral LD50 = 15000 mg/kg (Rat)

LD50 Dermal LD50 = 3350 mg/kg (Rabbit)

LC50 Inhalation LC50 = 259354 mg/m³ (Rat) 4h

Skin corrosion/irritation

Category 2.

Serious eye damage/irritation

No information available.

Respiratory or skin sensitisation

No sensitizing effects known.

Germ cell mutagenicity

No information available.

Carcinogenicity

Category 1B.

Reproductive toxicity

Category 2

Reproductive Effects

Experiments have shown reproductive toxicity effects on laboratory animals.

STOT-single exposure

Category 3

Results / Target organs

Central nervous system (CNS).

STOT-repeated exposure

Category 2

Target Organs

Peripheral Nervous System (PNS), Central nervous system (CNS), Eyes, Respiratory system, Skin, Liver, Blood.

Aspiration hazard

Category 1.

Other Adverse Effects

The toxicological properties have not been fully investigated.

Symptoms / effects, both acute and delayed

Inhalation of high vapor concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.

11.2 Additional information**Endocrine Disrupting Properties**

Assess endocrine disrupting properties for human health. This product does not contain any known or suspected endocrine disruptors.

12 ECOLOGICAL INFORMATION**12.1 Toxicity****Ecotoxicity effects**

Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

The product contains following substances which are hazardous for the environment.

12.2 Persistence and degradability**Persistence**

Insoluble in water, Persistence is unlikely, based on information available.

Degradation in sewage treatment plant.

Contains substances known to be hazardous to the environment or not degradable in waste water treatment plants.

12.3 Bioaccumulation

May have some potential to bioaccumulate

Hexane, branched and linear

Log Pow 4.11

Bioconcentration factor (BCF) No data available.

12.4 Mobility in soil

Spillage unlikely to penetrate soil The product is insoluble and floats on water The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces . Is not likely mobile in the environment due its low water solubility. Will likely be mobile in the environment due to its volatility.

12.5 Results of PBT and vPvB assessment

No data available for assessment.

12.6 Endocrine disrupting properties

Endocrine Disruptor Information.

This product does not contain any known or suspected endocrine disruptors.

12.7 Other adverse effects

Persistent Organic Pollutant.

This product does not contain any known or suspected substance.

Ozone Depletion Potential.

This product does not contain any known or suspected substance.

13 DISPOSAL CONSIDERATIONS**13.1 Waste treatment methods**

Waste from Residues/Unused Products.

Waste is classified as hazardous. Dispose of in accordance with the European Directives on waste and hazardous waste. Dispose of in accordance with local regulations.

Contaminated Packaging

Dispose of this container to hazardous or special waste collection point. Empty containers retain product residue, (liquid and/or vapor), and can be dangerous. Keep product and empty container away from heat and sources of ignition.

European Waste Catalogue (EWC)

According to the European Waste Catalog, Waste Codes are not product specific, but application specific.

Other Information

Do not flush to sewer. Waste codes should be assigned by the user based on them application for which the product was used. Can be landfilled or incinerated, when in compliance with local regulations. Do not let this chemical enter the environment. Do not empty into drains.

14 TRANSPORT INFORMATION

This product is part of a kit. Information in this section refers to the kit as a whole.

UN No

No dangerous good in sense of this transport regulation.

UN Proper shipping name

No dangerous good in sense of this transport regulation.

Class

No dangerous good in sense of this transport regulation.

Packing group

No dangerous good in sense of this transport regulation.

Environmental hazards

No.

Special precautions for user

No.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

15 REGULATORY INFORMATION**15.1 Safety, health and environmental regulation/legislation specific for the substance or mixture****EU regulations**

Major Accident Hazard: SEVESO III

Not applicable

Employment restrictions:

Observe employment restrictions in accordance with the youth employment protection regulations (94/33/EC).

Substances of very high concern (SVHC):

This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH).

15.2 Chemical Safety Assessment

Chemical Safety Assessment/Reports (CSA/CSR) are not required for mixtures.

16 OTHER INFORMATION

This information is based 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.

Relevant phrases:

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H330 Fatal if inhaled.

H315 Causes skin irritation.

H370 Causes damage to organs.

H336 May cause drowsiness or dizziness.

H350 May cause cancer.

H361d Suspected of damaging fertility.

H373 May cause damage to organs through prolonged or repeated exposure.

H411 Toxic to aquatic life with long lasting effects.

Notification:

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

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

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