

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Poly Quick Test Pen Red

Revision date: 09.09.2019

Product code: LT01649

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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

PE test ink/ PE test pen

Further trade names

Article no. (user):

LT01649-1ltr.

LT01649-10ltr.

LT01649-ST

LT01649-ST-M

1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture

test ink

1.3. Details of the supplier of the safety data sheet

Company name: EnTech 168 Co.,Ltd.

Street: 59 Onnut 17 Yek 3 Suanluang,

Place: Suanluang,Bangkok,Thailand 10250

Telephone: +66 2 300 2237

Telefax: +66 2 3002237

e-mail: info@dynetest.net

Internet: www.dynetest.net

1.4. Emergency telephone number:

+66 (0) 62 781 1199

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 2

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Highly flammable liquid and vapour.

Causes serious eye damage.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride
ethanol, ethyl alcohol

Signal word: Danger

Pictograms:



Hazard statements

H225

Highly flammable liquid and vapour.

H318

Causes serious eye damage.

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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.

P233 Keep container tightly closed.

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

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

P310 Immediately call a POISON CENTER/doctor.

P370+P378 In case of fire: Use Water spray jet; alcohol resistant foam; Carbon dioxide (CO₂);Extinguishing powder to extinguish.

P403+P235 Store in a well-ventilated place. Keep cool.

P273 Avoid release to the environment.

2.3. Other hazards

Results of PBT and vPvB assessment: SECTION 12: Ecological information

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
64-17-5	ethanol, ethyl alcohol			85 - < 90 %
	200-578-6	603-002-00-5	01-2119457610-43	
	Flam. Liq. 2, Eye Irrit. 2; H225 H319			
989-38-8	9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride			1 - < 5 %
	213-584-9			
	Acute Tox. 3, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 1; H301 H318 H400 H410			

Full text of H and EUH statements: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

If victim is at risk of losing consciousness, position and transport on their side.

No administration in cases of unconsciousness or cramps.

Remove contaminated, saturated clothing immediately.

After inhalation

Move victim to fresh air. Put victim at rest and keep warm.

Call a doctor if you feel unwell.

After contact with skin

IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

If skin irritation occurs: Get medical advice/attention.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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After ingestion

Rinse mouth immediately and drink plenty of water.
Do NOT induce vomiting.
Call a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Causes serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Water spray jet, Carbon dioxide (CO₂), alcohol resistant foam , Extinguishing powder.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Flammable. Vapours can form explosive mixtures with air. Vapours are heavier than air and will spread at floor level.

In case of fire: Hazardous decomposition products: Carbon dioxide (CO₂). Carbon monoxide. Gases/vapours, harmful

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing.
Co-ordinate fire-fighting measures to the fire surroundings.

Additional information

Use water spray jet to protect personnel and to cool endangered containers.

Suppress gases/vapours/mists with water spray jet.

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Remove all sources of ignition.
Remove persons to safety.
Provide adequate ventilation.
Do not breathe gas/fumes/vapour/spray.
Avoid contact with skin, eyes and clothes.
Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.
In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).
Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

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Advice on safe handling

Avoid contact with skin and eyes.
 Wear personal protection equipment.
 Provide adequate ventilation as well as local exhaustion at critical locations.
 Avoid: Generation/formation of aerosols
 Do not breathe vapour/aerosol.
 Vapours / aerosols should be extracted by suction directly at point of origin.
 In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.
 Only use the material in places where open light, fire and other flammable sources can be kept away.
 Take precautionary measures against static discharges.
 (Provide earthing of containers, equipment, pumps and ventilation facilities.
 Use only antistatically equipped (spark-free) tools.)

Advice on protection against fire and explosion

Keep away from sources of ignition. - No smoking.
 Take precautionary measures against static discharges.
 Vapours may form explosive mixtures with air.
 Flammable gas-air mixtures may form in empty receptacles.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Store in a place accessible by authorized persons only.
 Keep away from sources of ignition. - No smoking.
 Keep container tightly closed in a cool, well-ventilated place.
 Keep only in original container.
 Use explosion-proof machinery, apparatus, ventilation facilities, tools etc.
 Floors should be impervious, resistant to liquids and easy to clean.

Advice on storage compatibility

Do not store together with: Oxidising agent; Acid, concentrated; Alkali (lye), concentrated
 Observe regulations for storage of flammable liquids.

Further information on storage conditions

Keep only in the original container in a cool, well-ventilated place.
 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 Protect against direct sunlight.
 (Heating causes rise in pressure with risk of bursting.)

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
64-17-5	Ethanol	1000	1920		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

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DNEL/DMEL values

CAS No	Substance		
DNEL type	Exposure route	Effect	Value
64-17-5	ethanol, ethyl alcohol		
Worker DNEL, acute	inhalation	local	1900 mg/m ³
Worker DNEL, long-term	dermal	systemic	343 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	950 mg/m ³
Consumer DNEL, acute	inhalation	local	950 mg/m ³
Consumer DNEL, long-term	dermal	systemic	206 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	114 mg/m ³
Consumer DNEL, long-term	oral	systemic	87 mg/kg bw/day

PNEC values

CAS No	Substance	
Environmental compartment	Value	
64-17-5	ethanol, ethyl alcohol	
Freshwater	0,96 mg/l	
Marine water	0,79 mg/l	
Freshwater sediment	3,6 mg/kg	
Marine sediment	2,9 mg/kg	
Secondary poisoning	0,72 mg/kg	
Micro-organisms in sewage treatment plants (STP)	580 mg/l	
Soil	0,63 mg/kg	

Additional advice on limit values

ethanol, ethyl alcohol:

TRGS 900, AGW (Germany): DFG Y: A risk of reproductive effects needs not to be feared if the occupational exposure limit value (AGW) and the biological limit value (BGW) is kept

8.2. Exposure controls



Appropriate engineering controls

If local exhaust ventilation is not possible or not sufficient, the entire working area must be ventilated by technical means.

Protective and hygiene measures

- Do not breathe gas/vapour/aerosol.
- Wear personal protection equipment.
- Avoid contact with skin and eyes.
- Remove contaminated, saturated clothing immediately.
- After work, wash hands and face.
- When using do not eat or drink.
- Set out skin protection guidelines.

Eye/face protection

- Tightly sealed safety glasses.
- It must be Provide eye shower and label its location conspicuously.

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Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Suitable material: Butyl rubber.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Skin protection

Flame-retardant protective clothing. Wear anti-static footwear and clothing

Wearing of closed chemical resistant protective work clothing in addition to the personal protective equipment required.

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap.

Wash contaminated clothing before reuse.

Street clothing should be stored separately from work clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Respiratory protection necessary at: aerosol or mist formation

Combination filtering device (EN 14387): A-P2

Environmental exposure controls

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	red
Odour:	Solvent

	Test method
pH-Value:	not determined

Changes in the physical state

Initial boiling point and boiling range: 78 °C estimated

Flash point: 12 °C estimated

Explosive properties

Vapours can form explosive mixtures with air. Vapours are heavier than air and will spread at floor level.

Lower explosion limits: 3,5 vol. % estimated

Upper explosion limits: 15 vol. % estimated

Ignition temperature: 425 °C estimated

Vapour pressure: not determined

Density: not determined

Water solubility: not determined

Partition coefficient: not determined

Viscosity / kinematic:
(at 40 °C) not determined

Vapour density: not determined

9.2. Other information

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Solid content:

not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable, Ignition hazard.

10.2. Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3. Possibility of hazardous reactions

In use may form flammable/explosive vapour-air mixture.

Used empty containers may contain product gases which form explosive mixtures with air.

10.4. Conditions to avoid

UV-radiation/sunlight.

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

Take precautionary measures against static discharge.

10.5. Incompatible materials

Oxidizing agents. Alkalis (alkalis), concentrated. Acid, concentrated.

10.6. Hazardous decomposition products

In case of fire may be liberated: Carbon dioxide (CO₂). Carbon monoxide. Nitrogen oxides (NO_x).

Formaldehyde. Gases/vapours, harmful

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicokinetics, metabolism and distribution

No information available.

Acute toxicity

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

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

Rat (inhalative): 8h (IRT)

No mortality within stated exposition time as shown in animal studies. Assessment derived from products with similar chemical character.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
64-17-5	ethanol, ethyl alcohol				
	oral	LD50 10470 mg/kg	Rat	OECD 401	
	dermal	LD50 > 2000 mg/kg	Rabbit	OECD 402	
	inhalative (4 h) vapour	LC50 51 mg/l	Rat	OECD 403	
989-38-8	9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride				
	oral	ATE 100 mg/kg			

Irritation and corrosivity

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Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Ethanol:

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: Irritating to eyes.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

Irritant effect on the skin: Not an irritant.

Irritant effect on the eye: Risk of serious damage to eyes.

Sensitising effects

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

Ethanol:

no danger of sensitization.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

No data available

Carcinogenic/mutagenic/toxic effects for reproduction

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

Ethanol:

Carcinogenicity: : none

Germ cell mutagenicity: none

Reproductive toxicity: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

Carcinogenicity: : No data available

Germ cell mutagenicity: No data available

Reproductive toxicity: No data available

STOT-single exposure

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

Ethanol:

Classification: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

No data available

STOT-repeated exposure

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

Ethanol:

Classification: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

No data available

Aspiration hazard

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

Ethanol:

Classification: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

not applicable

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Additional information on tests

This mixture is classified as hazardous according to regulation (EC) No. 1272/2008 [CLP].

SECTION 12: Ecological information

12.1. Toxicity

The product is: Toxic to aquatic life with long lasting effects.

Ethanol:

EC50: 6500 mg/l 16 h Species: *Pseudomonas putida*

LC50: > 100 mg/l 24 h Species: *Daphnia magna*

LC50: 8140 mg/l 48 h Species: *Leuciscus idus*

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

Very toxic to aquatic life with long lasting effects.

Activated sludge EC10: 7 mg/l, *Pseudomonas putida* DIN 38412 / part 27 (draft)

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
64-17-5	ethanol, ethyl alcohol					
	Acute fish toxicity	LC50 mg/l	13000	96 h	<i>Oncorhynchus mykiss</i> (Rainbow trout)	OECD 203
	Acute algae toxicity	ErC50	275 mg/l	72 h	<i>Chlorella vulgaris</i>	OECD 201
	Acute crustacea toxicity	EC50 mg/l	12340	48 h	<i>Daphnia magna</i> (Big water flea)	ASTM E 729-80

12.2. Persistence and degradability

The product has not been tested.

Ethanol:

Degree of elimination: > 70 %

Further details:

CSB: 1600 g O₂/kg

BSB5: 1350 gO₂/g

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

Product is biodegradable with difficulty.

Effects in sewage plants (Adsorption Activated sludge): Moderately/partially eliminated from water.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64-17-5	ethanol, ethyl alcohol			
	CO ₂ - Evolution Test	97%	28	OECD 301B
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

The product has not been tested.

Ethanol:

Bioaccumulative potential: none

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

No data available

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Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
64-17-5	ethanol, ethyl alcohol	-0,3

BCF

CAS No	Chemical name	BCF	Species	Source
64-17-5	ethanol, ethyl alcohol	0,66		

12.4. Mobility in soil

The product has not been tested.

Ethanol:

The product is mobile in an aqueous environment.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

No data available

12.5. Results of PBT and vPvB assessment

The product has not been tested.

Ethanol:

This substance does not meet the criteria for classification as PBT or vPvB .

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

No data available

12.6. Other adverse effects

The product has not been tested.

9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride:

The product contains organically bound halogen as per formulation. It may increase the AOX value when discharged from treatment plants or into natural waters.

Additional ecotoxicological information:

Do not allow uncontrolled discharge of product into the environment.

Further information

Do not allow to enter into surface water or drains.

Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

Dispose of waste according to applicable legislation.

Do not allow to enter into surface water or drains.

Waste disposal number of waste from residues/unused products

080312 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU of printing inks; waste ink containing hazardous substances; hazardous waste

Contaminated packaging

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

Land transport (ADR/RID)

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14.1. UN number: UN 1210
14.2. UN proper shipping name: Printing ink related material
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Classification code: F1
 Special Provisions: 163 367 640D
 Limited quantity: 5 L
 Excepted quantity: E2
 Transport category: 2
 Hazard No: 33
 Tunnel restriction code: D/E

Marine transport (IMDG)

14.1. UN number: UN 1210
14.2. UN proper shipping name: Printing ink related material
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Marine pollutant: yes
 Special Provisions: 163, 367
 Limited quantity: 5 L
 Excepted quantity: E2
 EmS: F-E, S-D

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 1210
14.2. UN proper shipping name: Printing ink related material
14.3. Transport hazard class(es): 3
14.4. Packing group: II
 Hazard label: 3



Special Provisions: A3 A72 A192
 Limited quantity Passenger: 1 L
 Passenger LQ: Y341
 Excepted quantity: E2
 IATA-packing instructions - Passenger: 353
 IATA-max. quantity - Passenger: 5 L
 IATA-packing instructions - Cargo: 364
 IATA-max. quantity - Cargo: 60 L

14.5. Environmental hazards

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ENVIRONMENTALLY HAZARDOUS: yes



Danger releasing substance: 9-[2-(ethoxycarbonyl)phenyl]-3,6-bis(ethylamino)-2,7-dimethylxanthylium chloride

14.6. Special precautions for user

Warning: Combustible liquids.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

Other applicable information

Transport only in accordance with ADR for road, RID for rail, IMDG for sea and ICAO/IATA for air transport.

The test inks are delivered in PVC pens of 4g contents or in metal canister (UN approval) with maximum filling quantity of 8,5kg or 0,87kg.

The PVC pens with test inks are no dangerous goods according to the ADR for road, RID for rail, IMDG for sea and ICAO/ IATA for air transport.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): 89,1% ~ 775,54g/l

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

15.2. Chemical safety assessment

For the following substances of this mixture a chemical safety assessment has been carried out:
ethanol, ethyl alcohol

SECTION 16: Other information

Changes

SECTION 1: Identification of the substance/mixture and of the company/undertaking
SECTION 7: Handling and storage
SECTION 8: Exposure controls/personal protection
SECTION 11: Toxicological information
SECTION 12: Ecological information

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route
(European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
OECD: Organisation for Economic Cooperation and Development
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LL50: Lethal Load 50
LD50: Lethal dose, 50%
EC50: median effective concentration
EL50: effective loading rate lethal to 50% of the test population
ATE: acute toxicity estimates
DNEL: derived no-effect level

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PNEC: predicted no effect concentration
PBT: Persistent, bioaccumulative, toxic
vPvB: very persistent, very bioaccumulative
NOAEL: no observed adverse effect level
LOAEL: Lowest Observed Adverse Effect Level

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.

Further Information

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

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)