

Designation / Trade name: HTRF P-T prot. - Lysis Buf.5 (4X) 130 mL 64KL5FDF

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SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product identifier:

Designation / Trade name: HTRF P-T prot. - Lysis Buf.5 (4X) 130 mL 64KL5FDF CAS No.: EC No: REACH No:

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

Relevant identified uses: Use of the substance or mixture for Laboratory Research use only; Uses advised against: Do not use for diagnostics, therapeutics or other clinical uses.;

1.3 Details of the supplier of the safety data sheet:

Supplier:

Name: CISBIO BIOASSAYS, company of Revvity Group - CBBIOA - Address: Parc Marcel Boiteux - BP 84175 - 30200 Codolet, France

Phone: +33 4 66 79 67 05 - Fax: +33 4 66 79 67 50 E-Mail (competent person): codolet.sds@revvity.com

1.4 EMERGENCY TELEPHONE NUMBER:

France - Numéro ORFILA (INRS): +33 (0)1 45 42 59 59

Ce numéro permet d'obtenir les coordonnées de tous les centres Anti-poison Français. Ces centres anti-poison et de toxicovigilance fournissent une aide médicale gratuite (hors coût d'appel), 24 heures sur 24 et 7 jours sur 7.

USA & Canada - Phone: 1-888-963-456 (1) Other countries - Phone: +33 (0) 466 796 737 (2)

https://www.cisbio.com https://www.revvity.com

- (1) Available from Monday to Thursday 8:30 am to 5:30pm GMT-5 and Friday: 8:30 am to 3:00pm GMT-5
- (2) Available from Monday to Friday 9:00 am to 5:30 pm GMT+2

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture:

| Classification in accordance with 29 CFR 1910 (OSHA HCS) | Category code | Hazard statement | Precautionary statement |
|--|-------------------|------------------|-------------------------|
| Hazardous to the aquatic environment - Aquatic Chronic 3 - H412 | Aquatic Chronic 3 | H412 | P273 P501 |

2.2 Label elements

Labelling according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g))

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Substances contained in this product:



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Hazard pictograms

Signal word:

Hazard and precautionary statements:

| Code | Hazard statments |
|------|---|
| H412 | Harmful to aquatic life with long lasting effects |
| P273 | Avoid release to the environment. |
| P501 | Dispose of contents/container to |

2.3 Other hazards

The mixture contains substances classified as 'Substances of Very High Concern' (SVHC) published by the European CHemicals Agency (ECHA) under article 57 of REACH at levels of 0.1% or higher. This substance or mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher;

Adverse human health effects:



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SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.2 Mixtures

Hazardous ingredients:

| Substance name | CAS n° | Index n° | EC n° | Classification in accordance with 29 CFR 1910 (OSHA HCS) | Concentration (%) | SCL | M-factor |
|--|-----------|----------|-----------|--|-------------------|-----|----------|
| 4-(2- hydroxyethyl)piperazin-1- ylethanesulphonic acid | 7365-45-9 | | 230-907-9 | | < 10% | | |
| Poly(oxy-1,2-ethanediyl), α -[4-(1,1,3,3-tetramethylbutyl)phenyl]- ω -hydroxy- | 9002-93-1 | | | Acute toxicity - Acute Tox. 4 - H302 - Oral Hazardous to the aquatic environment - Aquatic Acute 1 - H400 Hazardous to the aquatic environment - Aquatic Chronic 1 - H410 Serious eye damage/eye irritation - Eye Dam. 1 - H318 Skin corrosion/irritation - Skin Irrit. 2 - H315 | < 1% | | |

Additional information:

Full text of H- and EUH-phrases: see SECTION 16.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information: Do not leave affected person unattended.;

Following inhalation: In case of respiratory tract irritation, consult a physician.; **Following skin contact**: After contact with skin, wash immediately with water;

Following eye contact: After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time,

then consult an ophthalmologist immediately.; Following ingestion: Do NOT induce vomiting.;

Self-protection of the first aider:

4.2 Most important symptoms and effects, both acute and delayed

Symptoms: No known symptoms to date.; Effects:

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor:

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media:

Suitable extinguishing media: This product is not flammable. Use extinguishing agent suitable for type of surrounding fire;



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5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: /

5.3 Advice for fire-fighters

Wear Protective clothing.; Additional information:

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Emergency procedures: Provide adequate ventilation.;

6.2 Environmental precautions

Do not allow to enter into surface water or drains.;

6.3 Methods and material for containment and cleaning up

For cleaning up: Suitable material for taking up: Absorbing material, organic; Other information:

6.4 Reference to other sections

Additional information:

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

Protective measures:

Advice on safe handling: Avoid contact with skin, eyes and clothes.;

Fire preventions:

Do not eat, drink or smoke in areas where reagents are handled.;

Advice on general occupational hygiene: Handle in accordance with good industrial hygiene and safety practice;

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels: Keep container tightly closed.;

Hints on storage assembly:

Materials to avoid:

Further information on storage conditions:

7.3 Specific end uses:

Recommendations on specific end uses: Observe technical data sheet.;



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Preliminary remark:

8.1.1 <u>Occupational exposure limits:</u>

OSHA (USA)

| Source : | Source : Occupational Safety and Health Administration (OSHA) Permissible Exposure Limits (PELS) from 29 CFR 1910.1000 | | | | | | | | | | | |
|---------------------|--|-----------|--|---|--|--|--|--|--|--|--|--|
| Substanc | e EC-No. | CAS-No | OSHA Permissible Exposure Limit (PEL) 8-hour TWA (ppm) | OSHA Permissible Exposure Limit (PEL) 8- hour TWA (mg/m3) | OSHA Permissible Exposure Limit (PEL) STEL (ppm) | OSHA Permissible Exposure Limit (PEL) STEL (mg/m3) | | | | | | |
| 7365-45-9 / 23 9 | 0-907-230-907-9 | 7365-45-9 | | | | | | | | | | |

| Source : | RGS 903, November 2015, BAuA | | | | | | | | | |
|---------------------------|------------------------------|-----------|-------------|-----------|--|--|--|--|--|--|
| Substance | EC-No. | CAS-No | BGW (mg/m3) | BGW (ppm) | | | | | | |
| 7365-45-9 / 230-907- 9 | 230-907-9 | 7365-45-9 | | | | | | | | |

8.1.2 <u>DNEL/PNEC-values:</u>

DNEL worker

| Source : | GESTIS – su | GESTIS – substance database | | | | | | | | | | |
|--------------------------|-------------|-----------------------------|---|--|------------------|---|------------------|---|------------------|--|--|--|
| Substance | EC-No. | CAS-No | Acute – dermal, local effects (mg/kg/day) | Long-term – dermal, local effects (mg/kg/day) | systemic effects | Acute – inhalation, local effects (mg/m3) | systemic effects | Long-term – inhalation, local effects (mg/m3) | systemic effects | | | |
| 7365-45-9 / 230-907-9 | 230-907-9 | 7365-45-9 | | | | | 23.5-23.5 | | | | | |

DNEL consumer

| Source : | GESTIS – si | ubstance da | tabase | | | | | | |
|--------------------------|-------------|-------------|---|---------------|---|---|------------------|---|------------------|
| Substance | EC-No. | CAS-No | Acute – dermal, local effects (mg/kg/day) | dermal, local | Long-term – dermal, systemic effects (mg/kg/day) | Acute – inhalation, local effects (mg/m3) | systemic effects | Long-term – inhalation, local effects (mg/m3) | systemic effects |
| 7365-45-9 / 230-907-9 | 230-907-9 | 7365-45-9 | | | | | | | |



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| Source : | INERIS | | | | | | | | | | | | | | | | |
|------------------------------|-----------|------------|--------|--------------|-------|-----------|---------|----------------------|--------|---------|----------|--------|--------------|--------|--------|---------|-------|
| | | | | PNEC AQUATIC | | | | | | | | Р | NEC S | edimen | t | | |
| Substance EC-No. C | EC No. | freshwater | | | ma | arine wat | er | intermittent release | | fı | reshwate | er | marine water | | er | | |
| Substance | EC-No. | | (mg/L) | (mg/kg) | (ppm) | (mg/L) | (mg/kg) | (ppm) | (mg/L) | (mg/kg) | (ppm) | (mg/L) | (mg/kg) | (ppm) | (mg/L) | (mg/kg) | (ppm) |
| 7365-45-9 / 230-907- 9 | 230-907-9 | 7365-45-9 | | | | | | | | | | | | | | | |

| Source : | INERIS | | | | | | | | | | | | | |
|--------------------------|-----------|-----------|-----------|---------|-------|-----------------------------|---------|-------|----------|---------|-------|--------------------------|---------|-------|
| | EC-No. | | | Others | | | | | | | | | | |
| Substance | | CAS-No | PNEC soil | | | PNEC sewage treatment plant | | | PNEC air | | | PNEC secondary poisoning | | • |
| | | | (mg/L) | (mg/kg) | (ppm) | (mg/L) | (mg/kg) | (ppm) | (mg/L) | (mg/kg) | (ppm) | (mg/L) | (mg/kg) | (ppm) |
| 7365-45-9 / 230-907-9 | 230-907-9 | 7365-45-9 | | | | | | | | | | | | |

8.2 Exposure controls

8.2.1 Appropriate engineering controls:

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7

8.2.2 <u>Personal protective equipment:</u>

Eye / Face protection: Safety glasses with side-shields;

 $Skin\ protection: Gloves\ ;$

Respiratory protection: Ensure adequate ventilation;

Thermal hazards:

8.2.3 <u>Environmental exposure controls:</u>

Consumer exposure control

Measures related to consumer uses of the substance (as such or in mixtures):

Measures related to the service life of the substance in articles:

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

<u>Appearance</u>

| Physical state | Liquid; |
|-----------------------|------------|
| Colour | Colorless; |
| Odour | |
| Odour threshold (ppm) | |

| | Value | Concentration (mol/L) | Method | Temperature (°C) | Pressure (kPa) | Remark |
|--|-------|-----------------------|--------|------------------|----------------|--------|
| рН | 7 | | | | | |
| Melting point (°C) | | | | | | |
| Freezing point (°C) | | | | | | |
| Initial boiling point/boiling range (°C) | | | | | | |
| Flash point (°C) | | | | | | |
| Evaporation rate (kg/m²/h) | | | | | | |
| Flammability (type :) (%) | | | | | | |



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| | | | | | | <u> </u> |
|----------------------|---------------------------------|---|---|---|---|----------|
| Upper/low | er Upper explosive limit | | | | | |
| flammability or e | xplosive (%) | | | | | |
| limits | Lower explosive limit (%) | | | | | |
| Vapour pressure | apour pressure (kPa) | | | | | |
| Vapour density (g | | | | | | |
| rapour acrisity (8 | · | | | | | |
| | Density (g/cm³) | | | | | |
| Densities | Relative density (g/cm³) | | | | | |
| | Bulk density (g/cm³) | | | | | |
| | Critical density (g/cm³) | | | | | |
| Solubility (Type : |) (g/L) | | | | | |
| | | | | | | |
| Partition coefficie | nt (log Pow) | | | | | |
| n-octanol/water | at pH: | | | | | |
| Auto-ignition tem | perature (°C) | | | | | |
| Decomposition to | mperature (°C) | | | | | |
| Decomposition e | nergy: kJ | | | | | |
| Viscosity | Viscosity, dynamic (poiseuille) | | | | | |
| ļ | Viscosity, cinematic (cm³/s) | | | | | |
| Explosive properties | | | | | | |
| | Oxidising properties | | | | | |
| | | • | • | • | • | • |

9.2 Other information:

No other relevant data available

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

This material is considered to be non-reactive under normal use conditions.;

- 10.2 Chemical stability
- 10.3 Possibility of hazardous reactions
- 10.4 Conditions to avoid:
- 10.5 Incompatible materials:

10.6 Hazardous decomposition products:

Does not decompose when used for intended uses.;

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicokinetics, metabolism and distribution

11.1 Information on toxicological effects

Substances

Acute toxicity

Animal data:



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Acute oral toxicity:

| Substance name | LD50 (mg/kg) | Species | Method | Symptoms / delayed effects | Remark |
|----------------|-----------------|---------|--------|----------------------------|--------|
| 9002-93-1 | 1800-1800 | Rat | | | |

Acute dermal toxicity:

Acute inhalative toxicity:

Practical experience / human evidence:

Assessment / Classification:

General Remark:

• Skin corrosion/irritation

Animal data:

| Substance name | Species | Method | Exposure time | Result/evaluation | Score | Remark |
|----------------|---------|--------|---------------|-------------------|-------|--------|
| 9002-93-1 | | | | | | |

In-vitro skin test method:

In-vitro skin test result:

Assessment / Classification:

• Eye damage/irritation

Animal data:

| Substance name | Species | Method | Exposure time | Result/evaluation | Score | Remark |
|----------------|---------|--------|---------------|-------------------|-------|--------|
| 9002-93-1 | Rabbit | | | Eye irritation | | |

In vitro eye test method:

In vitro eye test result:

Assessment / Classification:

- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
 - o Germ cell mutagenicity:

Animal data:

Assessment / Classification:

o Carcinogenicity

Practical experience / human evidence:



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Animal data:

Other information:

Assessment / Classification:

o Reproductive toxicity

Practical experience / human evidence:

Animal data:

Other information:

Assessment / Classification:

Overall assessment on CMR properties:

- Specific target organ toxicity (single exposure)
 - o STOT SE 1 and 2

Animal data:

Other information:

o STOT SE 3

Practical experience / human evidence:

Other information:

Assessment / Classification:

• Specific target organ toxicity (repeated exposure)

Practical experience / human evidence:

Animal data:

Assessment / Classification:

Other information

Aspiration hazard

Practical experience / human evidence:

Experimental data: viscosity data: see SECTION 9.

Assessment / Classification:

Remark:

11.1.1 Mixtures

No toxicological information is available for the mixture itself

SECTION 12: ECOLOGICAL INFORMATION

In case that test data regarding one endpoint/differentiation exist for the mixture itself, the classification is carried out according to the substance criteria (excluding biodegradation and bioaccumulation). If no test data exist, the criteria for



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mixture classification has to be used (calculation method) data of the ingredients are shown.

in this case the toxicological

12.1 Aquatic toxicity:

Acute (short-term) fish toxicity

| Source : | rce : Informations relatives à la réglementation VME (France) : ED 984, 07.2012 | | | | | | | | | | | |
|-----------|---|-----------|----------------|----------------|------------------|---|-----------------------|--------|--------|----------------|--|--|
| Substance | EC-No. | CAS-No | LC50 (mg/L) | EC50 (mg/L) | Test duration | Species | Result/ Evaluation | Method | Remark | General Remark | | |
| 9002-93-1 | | 9002-93-1 | 8,9 | | 96 | Pimephales promelas (fathead minnow) | | | | | | |

Chronic (long-term) fish toxicity

| Source : | rce : Informations relatives à la réglementation VME (France) : ED 984, 07.2012 | | | | | | | | | | |
|-----------|---|--|--|--|--|--|--|--|--|--|--|
| Substance | EC-No. | EC-No. CAS-No NOEC (mg/L) Test duration Species Method Remark General Remark | | | | | | | | | |
| 9002-93-1 | | 9002-93-1 | | | | | | | | | |

Acute (short-term) toxicity to crustacea

| Source : | Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012 | | | | | | | | | | |
|-----------|--|---|--|--|--|--|--|--|--|--|--|
| Substance | EC-No. | EC-No. CAS-No EC50 (mg/L) Test duration Species Result/ Evaluation Method Remark General Remark | | | | | | | | | |
| 9002-93-1 | | 9002-93-1 26 48 | | | | | | | | | |

Chronic (long-term) toxicity to crustacea

| Source : | Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012 | | | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|--|--|--|
| Substance | EC-No. | EC-No. CAS-No NOEC (mg/L) Test duration Species Method Remark General Remark | | | | | | | | | |
| 9002-93-1 | 9002-93-1 | | | | | | | | | | |

Acute (short-term) toxicity to algae and cyanobacteria

| Source : | ce: Informations relatives à la réglementation VME (France): ED 984, 07.2012 | | | | | | | | | | |
|-----------|--|---|--|--|--|--|--|--|--|--|--|
| Substance | EC-No. | EC-No. CAS-No EC50 (mg/L) Test duration Species Result/ Evaluation Method Remark General Remark | | | | | | | | | |
| 9002-93-1 | | 9002-93-1 | | | | | | | | | |

Toxicity to microorganisms and other aquatic plants / organisms

| Source : | Source : Informations relatives à la réglementation VME (France) : ED 984, 07.2012 | | | | | | | | | | |
|-----------|--|--|--|--|--|--|--|--|--|--|--|
| Substance | EC-No. | EC-No. CAS-No EC50 (mg/L) Species Method Remark General Remark | | | | | | | | | |
| 9002-93-1 | | 9002-93-1 | | | | | | | | | |

Assessment / Classification:



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12.2 Persistence and degradability

Biodegradation:

| Source : | : Informations relatives à la réglementation VME (France) : ED 984, 07.2012 | | | | | | | | | |
|-----------|---|-----------|----------|--------------------------|----------------------|--------|--|--|--|--|
| Substance | EC-No. | CAS-No | Inoculum | Biodegradation parameter | Degradation rate (%) | Method | Remark | | | |
| 9002-93-1 | | 9002-93-1 | | BOD (% of COD). | 36-36 | | In accordance with the required stability the product is poorly biodegradable. | | | |

Abiotic Degradation:

| Source : | | | | | | | | |
|-----------|--------|-----------|-------------------------------|-----------------------|---------------------|----|--------|--------|
| Substance | EC-No. | CAS-No | Abiotic degradation test type | Half-life time (j) | Temperature (°C) | рН | Method | Remark |
| 9002-93-1 | | 9002-93-1 | | | | | | |

Assessment / Classification:

12.3 Bioaccumulative potential

Bioconcentration factor (BCF):

| Source : | | | | | | |
|-----------|--------|-----------|---------|--------|--------|--------|
| Substance | EC-No. | CAS-No | Species | Result | Method | Remark |
| 9002-93-1 | | 9002-93-1 | | | | |

12.4 Mobility in soil

| Source : | | | | | | | | | | | |
|-----------|-------|---------------|--------------|------|--|---------|----------------------------------|--|--|--------|--------|
| Substance | EC n° | CAS n° | Distribution | tvne | Henry's law constant (Pa.m3/mol) | Log KOC | Half-life time in soil (j) | Half-life time in fresh water (j) | Half-life time in sea water (j) | Method | Remark |
| 9002-93-1 | | 9002- 93-1 | | | | | | | | | |

12.5 Results of PBT and vPvB assessment

12.6 Other adverse effects:

Additional ecotoxicological information:

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Waste treatment options:

Dispose of waste according to applicable legislation.;



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Other disposal recommendations:

Additional information:

SECTION 14: TRANSPORT INFORMATION

ADR/RID/AND/IMDG/IATA

| UN No. | |
|----------------------------|--|
| UN Proper shipping name | |
| Transport hazard class(es) | |
| Hazard label(s) | |
| | |
| Packing group | |

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

Land transport (ADR/RID)

Classification code ADR: Special Provisions for ADR/RID: Limited quantities for ADR/RID: Excepted Quantities for ADR/RID:

Packing Instructions for ADR/RID: Special packing provisions for ADR/RID:

Mixed packing provisions: Portable tanks and bulk containers Instructions:

Portable tanks and bulk containers Special Provisions:

ADR Tank Code: ADR Tank special provisions:

Vehicle for tank carriage: Special provisions for carriage Packages:

Special provisions for carriage Bulk:

Special provisions for carriage for loading, unloading and handling:

Special Provisions for carriage Operation:

Hazard identification No: Transport category (Tunnel restriction code):

Sea transport (IMDG)

Marine Pollutant: Subsidiary risk(s) for IMDG: Packing provisions for IMDG: Limited quantities for IMDG:

Packing instructions for IMDG: IBC Instructions:
IBC Provisions: IMO tank instructions:
UN tank instructions: Tanks and bulk Provisions:

EmS: Stowage and segregation for IMDG:

Properties and observations:

Inland waterway transport (ADN)

Classification Code ADN: Special Provisions ADN:
Limited quantities ADN: Excepted quantities ADN:
Carriage permitted: Equipment required:

Provisions concerning loading and unloading:

Provisions concerning carriage: Number of blue cones/lights:

Remark:

Air transport (ICAO-TI / IATA-DGR)

Subsidiary risk for IATA: Excepted quantity for IATA:

Passenger and Cargo Aircraft Limited Quantities Packing Instructions:

Passenger and Cargo Aircraft Limited Quantities Maximal Net Quantity: Passenger and Cargo Aircraft Packaging Instructions:

Cargo Aircraft only Packaging Instructions:

Passenger and Cargo Aircraft Maximal Net Quantity:



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Cargo Aircraft only Maximal Net Quantity:

ERG code: Special Provisions for IATA:

SECTION 15: REGULATORY INFORMATION

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

15.2 Chemical Safety Assessment:

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

SECTION 16: OTHER INFORMATION

16.1 Indication of changes

Date of the previous version:06/09/2023 Modifications:

16.2 Abbreviations and acronyms:

16.3 Key literature references and sources for data

16.4 Classification for mixtures and used evaluation method according to Hazard Communication Standard (HCS) (29 CFR 1910.1200(g):

See SECTION 2.1 (classification).

16.5 Relevant R-, H- and EUH-phrases (number and full text):

| Code | Hazard statments | | | |
|------|--|--|--|--|
| H302 | Harmful if swallowed | | | |
| H315 | Causes skin irritation | | | |
| H318 | Causes serious eye damage. | | | |
| H400 | Very toxic to aquatic life | | | |
| H410 | Very toxic to aquatic life with long lasting effects | | | |

