



**Safety Data Sheet dated 24/1/2017, version 3**

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

- 1.1. Product identifier  
Trade name: SECODES AKTIV
- 1.2. Relevant identified uses of the substance or mixture and uses advised against  
Recommended use:  
FOR PROFESSIONAL USE
- 1.3. Details of the supplier of the safety data sheet  
Company:  
Esseco S.r.l. Via San Cassiano 99  
28069 - Trecale (NO)  
Italy
- Enartis - Phone n. +39-0321-790300  
Competent person responsible for the safety data sheet: vino@enartis.it
- 1.4. Emergency telephone number  
Enartis - Phone n. +39-0321-790300

**SECTION 2: Hazards identification**

- 2.1. Classification of the substance or mixture  
EC regulation criteria 1272/2008 (CLP)
- ⚠ Warning, Aquatic Chronic 1, Very toxic to aquatic life with long lasting effects.
  - ⚠ Danger, Self-react. C, Heating may cause a fire.
  - ⚠ Warning, Met. Corr. 1, May be corrosive to metals.
  - ⚠ Warning, Acute Tox. 4, Harmful if swallowed.
  - ⚠ Warning, Acute Tox. 4, Harmful in contact with skin.
  - ⚠ Warning, Acute Tox. 4, Harmful if inhaled.
  - ⚠ Danger, Skin Corr. 1A, Causes severe skin burns and eye damage.
  - ⚠ Warning, STOT SE 3, May cause respiratory irritation.

Adverse physicochemical, human health and environmental effects:  
No other hazards

- 2.2. Label elements  
Hazard pictograms:



Danger

Hazard statements:

- H410 Very toxic to aquatic life with long lasting effects.
- H242 Heating may cause a fire.
- H290 May be corrosive to metals.
- H302+H312+H332 Harmful if swallowed, in contact with skin or if inhaled.
- H314 Causes severe skin burns and eye damage.
- H335 May cause respiratory irritation.

Precautionary statements:

- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P234 Keep only in original container.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/protective clothing/eye protection/face protection.
- P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse

skin with water/ shower.

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

P308+P311 IF exposed or concerned: Call a doctor.

Special Provisions:

None

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

### SECTION 3: Composition/information on ingredients

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

Qty	Name	Ident. Number	Classification
>= 25% - < 30%	Hydrogen Peroxide	Index number: 008-003-00-9 CAS: 7722-84-1 EC: 231-765-0 REACH No.: 01-2119485845-22-XXXX	<ul style="list-style-type: none"> <li>⚠ 2.13/1 Ox. Liq. 1 H271</li> <li>⚠ 3.1/4/Inhal Acute Tox. 4 H332</li> <li>⚠ 3.1/4/Oral Acute Tox. 4 H302</li> <li>⚠ 3.2/1A Skin Corr. 1A H314</li> </ul>
>= 15% - < 20%	Acetic Acid	Index number: 607-002-00-6 CAS: 64-19-7 EC: 200-580-7 REACH No.: 01-2119475328-30-XXXX	<ul style="list-style-type: none"> <li>⚠ 2.6/3 Flam. Liq. 3 H226</li> <li>⚠ 3.2/1A Skin Corr. 1A H314</li> </ul>
>= 5% - < 7%	peracetic acid	Index number: 607-094-00-8 CAS: 79-21-0 EC: 201-186-8 REACH No.: 01-2119531330-56-XXXX	<ul style="list-style-type: none"> <li>⚠ 2.15/D Org. Perox. D H242</li> <li>⚠ 2.6/3 Flam. Liq. 3 H226</li> <li>⚠ 3.1/4/Dermal Acute Tox. 4 H312</li> <li>⚠ 3.1/4/Inhal Acute Tox. 4 H332</li> <li>⚠ 3.1/4/Oral Acute Tox. 4 H302</li> <li>⚠ 3.2/1A Skin Corr. 1A H314</li> <li>⚠ 4.1/A1 Aquatic Acute 1 H400 M=10.</li> </ul>

### SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

OBTAIN IMMEDIATE MEDICAL ATTENTION.

After contact with skin, wash immediately with soap and plenty of water.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

Give nothing to eat or drink.

In case of Inhalation:

In case of inhalation, consult a doctor immediately and show him packing or label.

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

None

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

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

Treatment:

None

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## SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

Water.

Carbon dioxide (CO<sub>2</sub>).

Extinguishing media which must not be used for safety reasons:

None in particular.

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

5.3. Advice for firefighters

Use suitable breathing apparatus .

Collect contaminated fire extinguishing water separately. This must not be discharged into drains.

Move undamaged containers from immediate hazard area if it can be done safely.

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## SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Wear breathing apparatus if exposed to vapours/dusts/aerosols.

Provide adequate ventilation.

Use appropriate respiratory protection.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

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## SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

Use localized ventilation system.

Don't use empty container before they have been cleaned.

Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.

Contaminated clothing should be changed before entering eating areas.

Do not eat or drink while working.

See also section 8 for recommended protective equipment.

7.2. Conditions for safe storage, including any incompatibilities

Always keep the containers tightly closed.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.

Do not pour the product into other containers. Always use the original container.

Keep away from food, drink and feed.

Incompatible materials:

Store product in original container. Store away from incompatible materials such as decomposition catalysts, metal salts, alkalis, reducing agents, metals.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

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## SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Hydrogen Peroxide - CAS: 7722-84-1

MAK - TWA: 0.71 mg/m<sup>3</sup>, 0.5 ppm - Notes: DFG considers hydrogen peroxide carcinogenic category 4

ACGIH - TWA(8h): 1 ppm - Notes: A3 - Eye, URT, and skin irr

Acetic Acid - CAS: 64-19-7

OSHA - TWA: 25 mg/m<sup>3</sup>, 10 ppm

EU - TWA(8h): 25 mg/m<sup>3</sup>, 10 ppm

ACGIH - TWA(8h): 10 ppm - STEL: 15 ppm - Notes: URT and eye irr, pulm func

peracetic acid - CAS: 79-21-0

ACGIH - STEL: 0.4 ppm - Notes: (IFV), A4 - URT, eye, and skin irr

DNEL Exposure Limit Values

Hydrogen Peroxide - CAS: 7722-84-1

Worker Professional: 3 mg/m<sup>3</sup> - Consumer: 1.93 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 1.4 mg/m<sup>3</sup> - Consumer: 0.21 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Acetic Acid - CAS: 64-19-7

Worker Professional: 25 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 25 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

PNEC Exposure Limit Values

Hydrogen Peroxide - CAS: 7722-84-1

Target: Freshwater sediments - Value: 0.047 mg/l

Target: Marine water sediments - Value: 0.047 mg/l

Target: Fresh Water - Value: 0.0126 mg/l

Target: Marine water - Value: 0.0126 mg/l

Acetic Acid - CAS: 64-19-7

Target: Marine water - Value: 0.3058 mg/l

Target: Fresh Water - Value: 3.058 mg/l

Target: Freshwater sediments - Value: 11.36 mg/kg

8.2. Exposure controls

Eye protection:

Eye glasses with side protection.

Protection for skin:

Use clothing that provides comprehensive protection to the skin, e.g. cotton, rubber, PVC or viton.

Protection for hands:

Use protective gloves that provides comprehensive protection.

Suitable material:

UNI EN 420/UNI EN 374

Respiratory protection:

Use respiratory protection where ventilation is insufficient or exposure is prolonged.

Thermal Hazards:

None

Environmental exposure controls:

None

Appropriate engineering controls:

None

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## SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance and colour:	Liquid
Odour:	Characteristic
Odour threshold:	N.A.
pH:	± 1.0
Melting point / freezing point:	-20°C
Initial boiling point and boiling range:	±100°C
Solid/gas flammability:	>100°C
Upper/lower flammability or explosive limits:	N.A.
Vapour density:	N.A.
Flash point:	N.A.
Evaporation rate:	N.A.
Vapour pressure:	N.A.
Relative density:	1.1 g/mL
Solubility in water:	100%
Solubility in oil:	0%
Partition coefficient (n-octanol/water):	log Pow: -1,25
Auto-ignition temperature:	N.A.
Decomposition temperature:	.
Viscosity:	N.A.
Explosive properties:	N.A.
Oxidizing properties:	N.A.

9.2. Other information

Miscibility:	N.A.
Fat Solubility:	N.A.
Conductivity:	N.A.
Substance Groups relevant properties	N.A.

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## SECTION 10: Stability and reactivity

10.1. Reactivity

Stable under normal conditions

Danger of decomposition exothermic in case of thermal effect to oxygen development. The product is an oxidizer.

10.2. Chemical stability

Stable under normal conditions

10.3. Possibility of hazardous reactions

It may generate toxic gases on contact with acids, amides, aliphatic and aromatic amines, carbamates, halogenated organic substances, isocyanates, organic sulphides, nitriles, organophosphates, inorganic sulphides, and polymerisable substances.

It may catch fire on contact with other substances.

None

- 10.4. Conditions to avoid
  - Heat
  - Keep away from heat and direct sunlight.
- 10.5. Incompatible materials
  - Light metals and flammable materials.
  - See also section 7.
- 10.6. Hazardous decomposition products
  - Oxygen

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## **SECTION 11: Toxicological information**

### 11.1. Information on toxicological effects

Toxicological information of the product:

SECODES AKTIV

a) acute toxicity

The product is classified: Acute Tox. 4 H302; Acute Tox. 4 H312; Acute Tox. 4 H332

b) skin corrosion/irritation

The product is classified: Skin Corr. 1A H314

c) serious eye damage/irritation

Not classified

Based on available data, the classification criteria are not met

d) respiratory or skin sensitisation

Not classified

Based on available data, the classification criteria are not met

e) germ cell mutagenicity

Not classified

Based on available data, the classification criteria are not met

f) carcinogenicity

Not classified

Based on available data, the classification criteria are not met

g) reproductive toxicity

Not classified

Based on available data, the classification criteria are not met

h) STOT-single exposure

The product is classified: STOT SE 3 H335

i) STOT-repeated exposure

Not classified

Based on available data, the classification criteria are not met

j) aspiration hazard

Not classified

Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Hydrogen Peroxide - CAS: 7722-84-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat = 1026 mg/kg - Notes: Male

Test: LC50 - Route: Inhalation - Species: Rat > 170 Ppm - Duration: 4h

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg

Test: LD50 - Route: Oral - Species: Rat > 693.7 ml/kg - Notes: Female

Acetic Acid - CAS: 64-19-7

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 16000 Ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 3530 mg/kg

Test: LD50 - Route: Oral - Species: Mouse = 4960 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin - Species: Rat Positive

Test: Respiratory Tract Irritant - Route: Inhalation Positive

c) serious eye damage/irritation:

Test: Eye Irritant - Species: Rabbit Positive

peracetic acid - CAS: 79-21-0

a) acute toxicity:

Test: LD50 - Route: Oral = 500 mg/kg  
Test: LD50 - Route: Inhalation = 11 mg/l  
Test: LD50 - Route: Skin = 1100 mg/kg

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin Positive  
Test: Eye Corrosive Positive - Notes: Irreversible effects on eyes

e) germ cell mutagenicity:

Test: Mutagenesis Negative

g) reproductive toxicity:

Test: NOAEL - Route: Oral - Species: Rat = 12.5 mg/kg - Source: Method: OECD TG 414  
- Notes: 14 days  
Test: NOAEL - Route: Oral - Species: Rat = 30.4 mg/kg - Source: Method: OECD TG 414  
- Notes: 14 days F1

h) STOT-single exposure:

Test: Respiratory Tract Irritant - Route: Inhalation Positive - Notes: Intoxicant for a specific target organ Cat. 3

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## SECTION 12: Ecological information

### 12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment.

SECODES AKTIV

The product is classified: Aquatic Chronic 1 - H410

Hydrogen Peroxide - CAS: 7722-84-1

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 16.4 mg/l - Duration h: 96 - Notes: Short term effects (Pimephales promelas) - (EU,2003)  
Endpoint: LC50 - Species: Daphnia = 2.4 mg/l - Duration h: 48 - Notes: Short term effects (Daphnia pulex) - (EU,2003)  
Endpoint: EC50 - Species: Algae = 2.5 mg/l - Duration h: 72 - Notes: Short term effects (Chlorella vulgaris) - (EU,2003)  
Endpoint: EC50 - Species: Algae = 1.38 mg/l - Duration h: 72 - Notes: Short term effects (Skeletonema costatum, diatomea marina) - (TG OECD 201) (EU, 2003)  
Endpoint: EC50 - Species: Bacteria = 11 mg/l - Duration h: 16-18 - Notes: Short term effects (Pseudomonas putida)  
Endpoint: NOEC - Species: Daphnia = 0.63 mg/l - Duration h: 504 - Notes: Long term effects (Schmidt et al., 2006)  
Endpoint: NOEC - Species: Algae = 0.1 mg/l - Duration h: 72 - Notes: Long term effects (Chlorella vulgaris) - (EU, 2003)  
Endpoint: NOEC - Species: Algae = 0.63 mg/l - Duration h: 72 - Notes: Long term effects (TG OECD 201) (EU,2003) (Skeletonema costatum, diatomea marina)

Acetic Acid - CAS: 64-19-7

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 1000 mg/l - Duration h: 96 - Notes: (OECD Test Guideline 203)  
Endpoint: EC50 - Species: Daphnia > 300.82 mg/l - Duration h: 48 - Notes: (OECD Test Guideline 202)

peracetic acid - CAS: 79-21-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish = 0.53 mg/l - Duration h: 96 - Notes: Oncorhynchus mykiss, method OECD TG 203  
Endpoint: EC50 - Species: Daphnia = 0.73 mg/l - Duration h: 48 - Notes: Daphnia magna, method OECD TG 202  
Endpoint: EC50 - Species: Algae = 0.16 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata, method US-EPA



Endpoint: NOEC - Species: Algae = 0.61 mg/l - Duration h: 72 - Notes: Pseudokirchneriella subcapitata, method US-EPA

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia = 0.05 mg/l - Duration h: 504 - Notes: Daphnia magna, OECD 211

Endpoint: NOEC - Species: Fish = 0.00094 mg/l - Duration h: 792 - Notes: Danio rerio, OECD TG 210

- 12.2. Persistence and degradability  
N.A.
- 12.3. Bioaccumulative potential  
N.A.
- 12.4. Mobility in soil  
N.A.
- 12.5. Results of PBT and vPvB assessment  
vPvB Substances: None - PBT Substances: None
- 12.6. Other adverse effects  
None

### SECTION 13: Disposal considerations

13.1. Waste treatment methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

### SECTION 14: Transport information

- 14.1. UN number
 

ADR-UN Number:	3109
IATA-UN Number:	3109
IMDG-UN Number:	3109
- 14.2. UN proper shipping name
 

ADR-Shipping Name:	ORGANIC PEROXIDE TYPE F, LIQUID
IATA-Shipping Name:	ORGANIC PEROXIDE TYPE F, LIQUID
IMDG-Shipping Name:	ORGANIC PEROXIDE TYPE F, LIQUID
- 14.3. Transport hazard class(es)
 

ADR-Class:	5.2 + 8
ADR - Hazard identification number:	539
IATA-Class:	5.2 + 8
IATA-Label:	5.2 + 8 + KAFH
IMDG-Class:	5.2 + 8
- 14.4. Packing group
 

ADR-Packing Group:	-
IATA-Packing group:	-
IMDG-Packing group:	-
- 14.5. Environmental hazards
 

ADR-Environmental Pollutant:	Yes
IMDG-Marine pollutant:	Marine Pollutant
- 14.6. Special precautions for user
 

ADR-Subsidiary risks:	CORROSIVE
ADR-S.P.:	122 274
ADR-Transport category (Tunnel restriction code):	2 (D)
IATA-Passenger Aircraft:	570
IATA-Subsidiary risks:	CORROSIVE



IATA-Cargo Aircraft: 570  
IATA-S.P.: A20 A150 A802  
IATA-ERG: 5L  
IMDG-EmS: F-J , S-R  
IMDG-Subsidiary risks: CORROSIVE  
IMDG-Stowage and handling: Category D  
IMDG-Segregation: Protected from sources of heat. "Separated from" acids and alkalis. See 7.2.6.3.2.

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

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## SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture  
Dir. 98/24/EC (Risks related to chemical agents at work)  
Dir. 2000/39/EC (Occupational exposure limit values)  
Regulation (EC) n. 1907/2006 (REACH)  
Regulation (EC) n. 1272/2008 (CLP)  
Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013  
Regulation (EU) 2015/830  
Regulation (EU) n. 286/2011 (ATP 2 CLP)  
Regulation (EU) n. 618/2012 (ATP 3 CLP)  
Regulation (EU) n. 487/2013 (ATP 4 CLP)  
Regulation (EU) n. 944/2013 (ATP 5 CLP)  
Regulation (EU) n. 605/2014 (ATP 6 CLP)  
Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

No restriction.

Where applicable, refer to the following regulatory provisions :

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: E1, P6b

15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

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## SECTION 16: Other information

Full text of phrases referred to in Section 3:

H271 May cause fire or explosion; strong oxidiser.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H226 Flammable liquid and vapour.

H242 Heating may cause a fire.

H312 Harmful in contact with skin.

H400 Very toxic to aquatic life.

Hazard class and hazard category	Code	Description
Ox. Liq. 1	2.13/1	Oxidising liquid, Category 1
Org. Perox. D	2.15/D	Organic peroxide, Type D
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Self-react. C	2.8/C	Self-reactive substance or mixture, Type C
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Corr. 1A	3.2/1A	Skin corrosion, Category 1A
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1

Paragraphs modified from the previous revision:

SECTION 2: Hazards identification  
SECTION 4: First aid measures  
SECTION 6: Accidental release measures  
SECTION 7: Handling and storage  
SECTION 8: Exposure controls/personal protection  
SECTION 10: Stability and reactivity  
SECTION 11: Toxicological information  
SECTION 12: Ecological information  
SECTION 14: Transport information  
SECTION 15: Regulatory information  
SECTION 16: Other information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aquatic Chronic 1, H410	Calculation method
Self-react. C, H242	Expert judgement
Met. Corr. 1, H290	Expert judgement
Acute Tox. 4, H302	Expert judgement

Acute Tox. 4, H312	Expert judgement
Acute Tox. 4, H332	Expert judgement
Skin Corr. 1A, H314	On basis of test data (pH)
STOT SE 3, H335	Expert judgement

This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,  
Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van  
Nostrand Reinold

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GefStoffVO:	Ordinance on Hazardous Substances, Germany.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
N.A.:	Not Available
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average
WGK:	German Water Hazard Class.