Safety Data Sheet

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

1.1. Product identifier

Name **GELRUST**

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

Description/Use **Rust remover**

1.3. Details of the supplier of the safety data sheet

Company name **LANTANIA Srl**
Address **VIA GRUMELLO 45B**
City and Country **24127 Bergamo (BG)**
Italy

tel. +39 0352650943

fax +39 0352650861

e-mail address of the person
responsible for the safety data sheet **francescaponzoni@lantania.it**

1.4. Emergency telephone number

For urgent information contact **England, Medical Toxicology Information Services: +442071880100;**
Wales&Ireland, National Poisons Information Service: 08448920111;
Scotland, National Poisons Information Centre: 0870 600 6266;

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as dangerous pursuant to the provisions of Regulation (EC) 1272/2008 (CLP) (as amended). Accordingly, the product requires a safety data sheet in compliance with the provisions of Regulation (EC) 2015/830.
Any additional information concerning personal health and/or environmental risks are provided in sections 11 and 12 of this data sheet.

Physical hazards: the product may be corrosive to metals.
Health hazards: the product is harmful if swallowed. May cause an allergic skin reaction.
Environmental hazards: the product is not hazardous for the environment.

Classification and hazard statements:

Substance or mixture corrosive to metals, category 1	H290	May be corrosive to metals.
Acute toxicity, category 4	H302	Harmful if swallowed.
Skin sensitisation, category 1	H317	May cause an allergic skin reaction.

2.2. Label elements

Hazard labelling pursuant to (EC) Regulation 1272/2008 (CLP) as amended and added.

Hazard pictograms:

Signal words: Warning

Hazard statements:

H290	May be corrosive to metals.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

Precautionary statements:

P101	If medical advice is needed, have product container or label at hand.
P102	Keep out of reach of children
P103	Read label before use
P261	Avoid breathing mist, vapours, spray.
P280	Wear protective gloves.
P301+P310	IF SWALLOWED: immediately call a POISON CENTRE.
P302+P352	IF ON SKIN: wash with plenty of water.
P333+P313	If skin irritation or rash occurs: get medical attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
P501	Dispose of contents/container in accordance with local regulations.

Contains: AMMONIUM MERCAPTOACETATE

2.3. Other hazards

According to the available data, the product does not contain PBT or vPvB substances in percentage higher than 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	Concentration %	Classification 1272/2008 (CLP)	Specific limits 1272/2008 (CLP)
AMMONIUM MERCAPTOACETATE			
CAS 5421-46-5 EC 226-540-9 INDEX - Nr. Reg. 01-2119531489-31-XXXX	7.50 - 8.85	Met. Corr. 1 H290, Acute Tox. 3 H301, Skin Sens. 1 H317	-

The complete text of the hazard statements (H) is provided in section 16 of the sheet.

SECTION 4. First aid measures

4.1. Description of first aid measures

EYE CONTACT: Remove contact lenses. Wash immediately and thoroughly for at least 15 minutes with water, keeping eyelids open. If the problem persists, get medical advice/attention.
SKIN CONTACT: Remove any contaminated clothing. Take a shower immediately. Call a doctor immediately. Wash contaminated clothing before reuse.
INHALATION: Remove person to fresh air. If breathing stops, perform artificial respiration. Call a doctor immediately.
INGESTION: Call a doctor immediately. Do not induce vomiting. Do not administer anything unless expressly authorised by the doctor.

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

No specific information is known on symptoms and effects caused by the product.

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
Traditional fire-extinguishing methods are applicable: carbon dioxide, foam, powder and water spray.
UNSUITABLE FIRE-EXTINGUISHING MEDIA
None in particular.

5.2. Special hazards arising from the substance or mixture

HAZARDS CAUSED BY EXPOSURE IN THE EVENT OF FIRE
Do not breathe combustion products. Combustion produces heavy fumes and ammonia vapours.

5.3. Advice for firefighters

GENERAL INFORMATION
Cool the containers with water jets to prevent the product from decomposing and potentially harmful substances from developing. Always wear complete equipment with fire protection. Collect the fire extinguishing water that must not be drained into sewers. Dispose of the contaminated fire extinguishing water and fire residues according to the regulations in force.
EQUIPMENT
Wear normal fire-fighting clothes, such as self-contained, open-circuit compressed air breathing apparatus (EN 137), flame resistant clothing (EN469), flame resistant gloves (EN 659) and fire-fighter boots (HO A29 or A30).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel
Alert the personnel in charge of managing such emergencies. Move away from the accident area, if you are not equipped with the personal protective equipment listed in Section 8.

For emergency responders
Move all inadequately equipped personnel away to deal with the emergency.
Wear personal protective equipment as set forth in section 8 of the safety data sheet in order to prevent contaminating skin, eyes and personal clothing. Stop the leak if there is no danger.
Allow workers to access the area affected by the accident only after appropriate decontamination is completed. Aerate the premises affected by the accident.
Remove any containers and metal materials that may be damaged by the spillage.

6.2. Environmental precautions

Prevent the product from getting into sewer systems, surface water, ground water.

6.3. Methods and material for containment and cleaning up

Vacuum the spilled product into a suitable container. Assess the compatibility of the container to be used with the product, checking section 10. Absorb the remainder with inert absorbent material.
Ensure adequate ventilation of the area concerned by the spillage. The disposal of contaminated material must be carried out in accordance with the provisions of point 13.

6.4. Reference to other sections

Any information on personal protection and disposal is provided in sections 8 and 13.

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Ensure an adequate earthing system for systems and people. Avoid contact with eyes and skin. Do not inhale any dust, vapours or mists. Do not eat, drink, or smoke during use. Wash hands after use. Do not release to the environment.

7.2. Conditions for safe storage, including any incompatibilities

Only store in the original container. Store in a ventilated place, away from sources of ignition. Keep the containers tightly closed. Store the product in clearly labelled containers. Avoid overheating. Avoid violent impacts. Store the containers away from any incompatible material; refer to section 10.

7.3. Specific end uses

No specific end uses are intended other than the relevant uses set out in Section 1.2 of this safety data sheet.

SECTION 8. Exposure control/personal protection

8.1. Control parameters

The product does not contain substances for which there are EU community occupational exposure limits (OEL) which require the declaration in this Section.

AMMONIUM MERCAPTOACETATE

Predicted no-effect concentration - PNEC		
Freshwater value of reference	38	µg/l
Seawater value of reference	3.8	µg/l
Value of reference for STP microorganisms	3.2	mg/l

Health - Derived no-effect level (DNEL/DMEL)

	Effects on consumers				Effects on workers			
Exposure Pathway	Local acute	Systemic acute	Local chronic	Systemic chronic	Local acute	Systemic acute	Local chronic	Systemic chronic
Inhalation								1.41 mg/m3
Percutaneous				0.9 mg/kg bw/d			0.004 mg/cm2	2.06 mg/kg bw/d

8.2. Exposure controls

Considering that the use of suitable technical measures must always have the priority in terms of personal protection equipment, provide good ventilation in the work place through efficient local extraction.
When choosing personal protective equipment, ask the advice of your chemical substance suppliers.
The personal protective equipment must bear the CE marking certifying its conformity to standards in force.

HAND PROTECTION
Protect hands with category III gloves (see standard EN 374), class E in chlorinated polyethylene or equivalent, resistant to permeation.

Consider the following for the final choice of work glove materials: compatibility, degradation, rupture time and permeation.
With preparations, work glove resistance to chemicals must be tested prior to use, as it cannot be predicted. Glove wear time depends on the duration and method of use.

SKIN PROTECTION
Wear category II, professional use, long-sleeved work clothes and safety footwear (ref. Directive 89/686/EEC and EN ISO standard 20344). Wash with water and soap after removing the protective clothing.

EYE PROTECTION
It is recommended to wear protective airtight goggles (ref. standard EN 166). Provide an emergency shower with eye wash bath.
In the event of risk of exposure to splashes or squirts during work carried out, adequate protection of the mucous membranes (mouth, nose, eyes) should be provided in order to prevent accidental absorption.

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) of the substance or one or more substances contained in the product is exceeded, it is recommended to wear a mask with type A B E K filter whose class (1, 2 or 3) is selected based on the maximum concentration of use. (ref. standard EN 14387). If different types of gas or vapours and/or gases or vapours with particles should be present (aerosols, fumes, mists, etc.), combined filters must be installed.
Using respiratory protection equipment is required if the technical measures taken are not sufficient to limit the exposure of the worker within the threshold values considered. The protection provided by the masks is nevertheless limited.
If the substance in question is odourless or if its odour detection threshold exceeds the relevant TLV-TWA and in case of emergency, wear an open-circuit compressed-air breathing apparatus (ref. standard EN 137) or a fresh air hose breathing apparatus (ref. standard EN 138). Refer to standard EN 529 for the correct choice of respiratory protective device.

ENVIRONMENTAL EXPOSURE CONTROLS

Emissions from production processes, including from ventilation equipment, should be controlled with the aim of observing standards on environmental protection.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance	gel
Colour	transparent
Smell	sulphureous
Odour threshold	Not available
pH	6.5 - 7.0
Melting point or freezing point	Not available
Initial boiling point	Not available
Boiling range	Not available
Flammability point	Not available
Evaporation rate	Not available
Solids and gas flammability	Not available
Lower flammability limit	Not available
Upper flammability limit	Not available
Lower explosive limit	Not available
Upper explosive limit	Not available
Vapour pressure	Not applicable (the product is a mixture)
Vapour density	Not applicable (the product is a mixture)
Relative density	Not available
Solubility	Miscible with water
Partition coefficient: n-octanol/water	Not applicable (the product is a mixture)
Auto-ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	Not available
Explosive properties	Not applicable (absence of chemical groups associated with explosive properties pursuant to the provisions of Annex I, Part 2, chap. 2.1.4.3. of the Reg. (EC) 1272/2008 - CLP).
Oxidising properties	Not applicable (absence of requirements related to the presence of atoms and/or chemical bonds associated with oxidising properties in component molecules, pursuant to the provisions of Annex I, Part 2, 2.13.4 of (EC) Reg. 1272/2008 – CLP).

9.2. Other information

Information not available

SECTION 10. Stability and reactivity

10.1. Reactivity

It reacts with oxidising agents and strong bases.

10.2. Chemical stability

The product is stable under normal use and storage conditions.

10.3. Possibility of hazardous reactions

No hazardous reactions are predicted under normal use and storage conditions. Keep away from oxidising agents in order to avoid exothermic reactions. Ammonia will be released during the reaction with strong base.

10.4. Conditions to avoid

None in particular. Nonetheless, always adhere to the usual precautions required with chemical products.

10.5. Incompatible materials

Strong bases. Oxidising agents.

10.6. Hazardous decomposition products

As a result of thermal degradation, heavy fumes and ammonia vapours may develop.

SECTION 11. Toxicological information

11.1. Information on toxicological effects

Metabolism, kinetics, mechanism of action and other information

Information not available

Information on likely exposure pathways

Information not available

Immediate, delayed and chronic effects from short and long term exposure

Information not available

Interactive effects

Information not available

ACUTE TOXICITY
On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is classified as
Acute Tox. 4; H302
Toxicological information on the substance:

AMMONIUM MERCAPTOACETATE
LD50 (Oral) 35 mg/kg Rat
LD50 (Skin) > 2000 mg/kg Rat

SKIN CORROSION/SKIN IRRITATION
On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

SERIOUS EYE DAMAGE/EYE IRRITATION
On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

RESPIRATORY/SKIN SENSITISATION
On the basis of available data and in view of the classification criteria of Annex I, Part 3 of (EC) Reg. 1272/2008 as amended, the product is classified as ***Skin Sens. 1; H317.***

GERM CELL MUTAGENICITY
On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

CARCINOGENICITY
On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

REPRODUCTIVE TOXICITY
On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

SPECIFIC TARGET ORGAN TOXICITY (STOT) – SINGLE EXPOSURE
On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

SPECIFIC TARGET ORGAN TOXICITY (STOT) – REPEATED EXPOSURE
On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

ASPIRATION HAZARD
On the basis of available data and in view of the classification criteria set forth in table 3.2.3 of Annex I of (EC) Reg. 1272/2008 as amended, the product is not classified for this hazard class.

SECTION 12. Ecological information

12.1. Toxicity

There are no specific data on the product, use according to good working practices and do not dispose of in the environment. Do not dispose of the product in the soil or waterways. Inform the competent authorities in the event the product reaches waterways or it contaminates soil or vegetation. Take steps to minimise the effects on ground water.

Based on the assessment of the component classification and classification provisions as per Annex I, Part 4 of (EC) reg. 1272/2008 as amended, the mixture is not classified as hazardous for the environment.

The ecotoxicological information related to the substances contained in the mixture is given below:

AMMONIUM MERCAPTOACETATE

LC50 - Fish	> 100 mg/l/96h Oncorhynchus mykiss
EC50 - Crustaceans	38 mg/l/48h Daphnia magna
EC50 - Algae / Aquatic Plants	13 mg/l/72h Pseudokirchneriella subcapitata

12.2. Persistence and degradability

Readily biodegradable - Test: Method: OECD 301C - Duration: 28d - %: 100

12.3. Bioaccumulative potential

Log Pow: -2.99

12.4. Mobility in soil

Information not available

12.5. Results of PBT and vPvB assessment

According to the available data, the product does not contain PBT or vPvB substances in percentage higher than 0.1%.

12.6. Other adverse effects

Information not available

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Re-use, if possible. The product residues are to be considered special hazardous waste. The hazard levels of the waste that contains any amount of this product must be assessed based on laws in force.
Disposal must be performed by an authorised waste disposal company, in compliance with national and any local laws.

CONTAMINATED PACKAGES
Contaminated packages must be recovered or disposed of in compliance with national waste management regulations.

SECTION 14. Transport information

Transport must be carried out with vehicles equipped and/or authorised to transport hazardous goods according to the regulations of the edition in force of the A.D.R. Agreement and the applicable national provisions. Transport must be carried out in the original packaging and, in any case, in packaging made of materials not subject to attack by the contents and not subject to generating dangerous reactions with the contents. The operators in charge of loading and unloading hazardous goods must have received appropriate training on the risks posed by the preparation and on any procedures to be implemented in the event of an emergency situation.

14.1 UN number

ADR/ADN/RID: 1760
IMDG: 1760
IATA: 1760

14.2. UN proper shipping name

ADR/ADN/RID: LIQUIDO CORROSIVO, N.A.S. (AMMONIO MERCAPTOACETATO)
IMDG: CORROSIVE LIQUID, N.A.S. (AMMONIUM MERCAPTOACETATE)
IATA: CORROSIVE LIQUID, N.A.S. (AMMONIUM MERCAPTOACETATE)

14.3. Transport hazard class(es)

ADR/ADN/RID: 8
IMDG: 8
IATA: 8

14.4. Packing group

ADR/ADN/RID: III
IMDG: III
IATA: III

14.5. Environmental hazards

ADR/ADN/RID: NO
IMDG: NO
Marine Pollutant: NO
IATA: NO

14.6. Special precautions for users

ADR/ADN/RID
Classification code: C9
Transport category: 3
N. Kemler: 80
Labels: 8
Special provisions: 274
Limited amount: 5 L
Exempt amount: E1
Tunnel code: (E)

IMDG
Labels: 8
Special provisions: 223, 274
Limited amount: 5 L
Exempt amount: E1
EmS: F-A, S-B
Stowage and handling Category A, SW2

IATA
Labels: 8 (Corrosive)

Exempt amount:	E1					
Packaging instructions:	Cargo:	856	Passengers:	852	Limited amount:	Y841
Maximum amount:		60 L		5 L		1 L
Special instructions:	A3, A803					

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code

If you intend to transport in bulk, adhere to Annex II MARPOL 73/78 and the IBC code, where applicable.

SECTION 15. Regulatory information

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

Seveso Category - Directive 2012/18/EC: None

Restrictions concerning the product or the substances contained pursuant to Annex XVII (EC) Regulation 1907/2006

Product
Point 3

Substances in Candidate List (Art. 59 REACH)

According to the available data, the product does not contain SVHC substances in percentage higher than 0.1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to export notification EC Reg. 649/2012:

None

Substances Under the Rotterdam Convention Regulations:

None

Substances Under the Stockholm Convention Regulations

None

Biocide regulation (Reg. (EU) 528/2012):

Not applicable

Detergents regulation (Reg. (EC) 648/2004):

The product is regulated as a detergent.

Dir. 2004/42/EC - VOC / It. Legislative Decree 161/2006:

Not applicable

Health Checks

Any workers exposed to this chemical agent, that is hazardous to health, must undergo health surveillance, carried out according to the provisions of art. 41 of Italian Legislative Decree 81 of April 9, 2008 unless the risk for the safety and health of the worker has been assessed as irrelevant, according to art. 224, paragraph 2.

15.2. Chemical safety assessment

A chemical safety assessment has been drawn up relating to the following substance:

AMMONIUM MERCAPTOACETATE

SECTION 16. Other information

Text of the hazard statements (H) set out in sections 2-3 of the data sheet:

Met. Corr. 1	Substance or mixture corrosive to metals, category 1
Acute Tox. 3	Acute toxicity, category 3
Acute Tox. 4	Acute toxicity, category 4
Skin Sens. 1	Skin sensitisation, category 1
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H317	May cause an allergic skin reaction.

KEY:
- ADR: European agreement concerning the carriage of dangerous goods by road
- CAS NUMBER: Chemical Abstract Service Number
- EC50: Concentration that produces an effect on 50% of the tested population
- EC NUMBER: ESIS (Existing Substances Information System) Identification Number
- CLP: EC Regulation No.1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonised System of classification and labelling of chemicals

- IATA DGR: Regulations for shipping dangerous goods by the International Air Transport Association
- IC50: Inhibitory Concentration of 50% of the tested population
- IMDG: International maritime code on transportation of dangerous goods
- IMO: International Maritime Organisation
- INDEX NUMBER: Identification number in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal Dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent, Bioaccumulative and Toxic according to REACH
- PEC: Predicted Environmental Concentration
- PEL: Predicted Exposure Level
- PNEC: Predicted No Effect Concentration
- REACH: EC Regulation No.1907/2006
- RID: Regulations for the international carriage of dangerous goods by rail
- TLV: Threshold limit value
- TLV CEILING: Concentration that should not be exceeded at any time during occupational exposure.
- TWA STEL: Short-term exposure limit
- TWA: Time-weighted average exposure limit
- VOC: Volatile organic compound
- vPvB: Very persistent and very bioaccumulative according to REACH Regulation
- WGK: German water hazard class.

GENERAL BIBLIOGRAPHY:
1. Regulation (EC) 1907/2006 of the European Parliament (REACH)
2. Regulation (EC) 1272/2008 of the European Parliament (CLP)
3. Regulation (EC) 790/2009 of the European Parliament (I Atp. CLP)
4. Regulation (EU) 2015/830 of the European Parliament
5. Regulation (EU) 286/2011 of the European Parliament (II Atp. CLP)
6. Regulation (EU) 618/2012 of the European Parliament (III Atp. CLP)
7. Regulation (EU) 487/2013 of the European Parliament (IV Atp. CLP)
8. Regulation (EU) 944/2013 of the European Parliament (V Atp. CLP)
9. Regulation (EU) 605/2014 of the European Parliament (VI Atp. CLP)
10. Regulation (EU) 2015/1221 of the European Parliament (VII Atp. CLP)
11. (EU) Regulation 2016/918 of the European Parliament (VII Atp. CLP)
12. (EU) Regulation 2016/1179 (IX Atp. CLP)
13. (EU) Regulation 2017/776 (X Atp. CLP)
- The Merck Index. - 10th Edition
- Handling Chemical Safety
- INRS - Fiche Toxicologique (toxicological sheet)
- Patty - Industrial Hygiene and Toxicology
- N.I. Sax - Dangerous properties of Industrial Materials-7, 1989 Edition
- IFA GESTIS Website
- ECHA Agency website
- Database of chemical substance SDS templates - Ministry of Health and Higher Health Institute

Note for the user:
The information contained in this data sheet is based on the knowledge available to us at the time of issue of the latest version. Users must ensure the information is suitable and exhaustive in relation to the specific use of the product.
This document must not be construed as a guarantee of any specific property of the product.
As the use of this product is not subject to our direct control, users must comply with current health and safety laws and provisions under their own responsibility. We accept no liability for misuse.
Provide suitable information to the personnel in charge of using chemicals.

CALCULATION METHODS

Chemical-physical hazards: the dangerousness has been derived from the classification criteria of CLP Regulation Annex I Part 2 as amended and added.

Health hazards have been assessed with the calculation method set out by Reg. (EC) 1272/2008 (CLP) as amended and added for the classification of mixtures when data are available on all components of the mixture or some of them:

Acute Tox : application of criteria in Table 3.1.1. Annex I Part 3 of CLP Regulation as amended and added.
Skin Corr. 1A/1B/1C H314: application of additivity formula criteria in Table 3.2.3 Annex I Part 3 of CLP Regulation
Skin Irrit 2 H315: application of additivity formula criteria in Table 3.2.3 Annex I Part 3 of CLP Regulation
Eye Dam 1 H318: application of additivity formula criteria in Table 3.3.3 Annex I Part 3 of CLP Regulation
Eye Irrit. 2 H319: application of the additivity formula criteria in Table 3.3.3 Annex I Part 3 of CLP Regulation
Eye Irrit. 2 H319: table 3.3.3 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.
Skin Sens 1A/1B/1 H317 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.

Resp Sens 1A/1B/1 H334 Table 3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.
Muta. 1A/1B, 2 H340 - H341: table 3.5.2 Annex I Part 3 of CLP Regulation as amended and added.
Carc 1A/1B, 2 H350 - H351: table 3.6.2 Annex I Part 3 of CLP Regulation as amended and added.
Repr 1A/1B, 2 H360 - H361: table 3.7.2 Annex I Part 3 of CLP Regulation as amended and added.
STOT SE 1, 2 H370 - 371: application of the calculation methods - table 3.8.3 of Ann. I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.
STOT SE 3 H336: ch. 3.8.3.4.5 of Annex I, Part 3 of Reg. (EC) 1272/2008 (CLP) as amended and added.
STOT RE 1, 2 H372 - H373: table 3.9.4 Annex I Part 3 of CLP Regulation as amended and added.
Asp Tox 1 H304: application of criteria 3.10 Annex I Part 3 of CLP Regulation as amended and added.

Environmental hazards have been assessed with the calculation method set out by Reg. (EC) 1272/2008 (CLP) as amended and added for the classification of mixtures when data are available on all components of the mixture or some of them:
toxicity for the aquatic environment acute effects: table 4.1.1 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) as amended and added;
toxicity for the aquatic environment chronic effects: table 4.1.2 of Annex I, Part 4 of Reg. (EC) 1272/2008 (CLP) as amended and added.

First issue of the document.