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	D&CAL		

Safety Data Sheet

According to Annex II to REACH - Regulation (EU) 2020/878 and to Annex II to UK REACH

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

1.1. Product identifier

Code:

Product name

UFI:

DB1085A0

D&CAL

EP00-007H-D00R-YH XK

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

Intended use

Oven cleaner; detergent for cooking surfaces.

Identified Uses	Industrial	Professional	Consumer
Detergent for ovens and cooking surfaces.	-	ERC: 8a. PROC: 10, 11, 13, 8a. PC: 35. LCS: PW.	-

Uses Advised Against

Any use other than those identified.

1.3. Details of the supplier of the safety data sheet

Name

Full address

District and Country

tel. +39 049 86 57 511

fax +39 049 86 57 555

Unox S.p.A.

Via Majorana, 22

35010 Cadoneghe (Padova)

Italia

Hartnoll Ltd.

Unit 15 The Empire Centre

Imperial Way

Watford

WD24 4YH

tel. 01923 239 290

e-mail address of the competent person responsible for the Safety Data Sheet

det.rinse@unox.com

1.4. Emergency telephone number

For urgent inquiries refer to

3E

Tel. (+)1-760-476-3961

Access code: 334577

24h/24h

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

The product is classified as hazardous pursuant to the provisions set forth in (EC) Regulation 1272/2008 (CLP) (and subsequent amendments and supplements). The product thus requires a safety datasheet that complies with the provisions of (EU) Regulation 2020/878. Any additional information concerning the risks for health and/or the environment are given in sections 11 and 12 of this sheet.

Hazard classification and indication:		
Skin corrosion, category 1C	H314	Causes severe skin burns and eye damage.
Serious eye damage, category 1	H318	Causes serious eye damage.

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2.2. Label elements

Hazard labelling pursuant to EC Regulation 1272/2008 (CLP) and subsequent amendments and supplements.

Hazard pictograms:



Signal words: Danger

Hazard statements:

H314 Causes severe skin burns and eye damage.
EUH071 Corrosive to the respiratory tract.

Precautionary statements:

P260 Do not breathe mist/vapours/spray.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P280 Wear protective gloves/ protective clothing / eye protection / face protection.
P310 Immediately call a POISON CENTER.
P264 Wash hands thoroughly after handling.

Contains: L-(+)-LACTIC ACID

Ingredients according to Regulation (EC) No. 648/2004

Less than 5% Phosphonates, Anionic surfactants

2.3. Other hazards

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

The product does not contain substances with endocrine disrupting properties in concentration ≥ 0.1%.

SECTION 3. Composition/information on ingredients

3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
L-(+)-LACTIC ACID		
INDEX 607-743-00-5	50 ≤ x < 60	Skin Corr. 1C H314, Eye Dam. 1 H318, Eye Dam. 1 H318, EUH071
EC 201-196-2		
CAS 79-33-4		
REACH Reg. 01-2119474164-39-XXXX		

The full wording of hazard (H) phrases is given in section 16 of the sheet.

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SECTION 4. First aid measures

4.1. Description of first aid measures

EYES: Remove contact lenses, if present. Wash immediately with plenty of water for at least 15 minutes, opening the eyelids fully. If problem persists seek medical advice.
SKIN: Remove contaminated clothing. Wash immediately with plenty of water. If irritation persists, get medical advice/attention. Wash contaminated clothing before using it again.
INHALATION: Remove to open air. In the event of breathing difficulties, get medical advice/attention immediately.
INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Never give anything by mouth to an unconscious person, unless authorised by a doctor.

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

See section 11.

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

Keep the safety data sheet of the preparation or, failing that, the label available for the medical personnel.

SECTION 5. Firefighting measures

5.1. Extinguishing media

SUITABLE EXTINGUISHING EQUIPMENT
The extinguishing equipment should be of the conventional kind: carbon dioxide, foam, powder and water spray.
UNSUITABLE EXTINGUISHING EQUIPMENT
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.

5.3. Advice for firefighters

GENERAL INFORMATION
Use jets of water to cool the containers to prevent product decomposition and the development of substances potentially hazardous for health. Always wear full fire prevention gear. Collect extinguishing water to prevent it from draining into the sewer system. Dispose of contaminated water used for extinction and the remains of the fire according to applicable regulations.
SPECIAL PROTECTIVE EQUIPMENT FOR FIRE-FIGHTERS
Normal fire fighting clothing i.e. fire kit (BS EN 469), gloves (BS EN 659) and boots (HO specification A29 and A30) in combination with self-contained open circuit positive pressure compressed air breathing apparatus (BS EN 137).

SECTION 6. Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Use breathing equipment if fumes or powders are released into the air. These indications apply for both processing staff and those involved in emergency procedures.

6.2. Environmental precautions

The product must not penetrate into the sewer system or come into contact with surface water or ground water.

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6.3. Methods and material for containment and cleaning up

Confine using earth or inert material. Collect as much material as possible and eliminate the rest using jets of water. Contaminated material should be disposed of in compliance with the provisions set forth in point 13.

6.4. Reference to other sections

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

SECTION 7. Handling and storage

7.1. Precautions for safe handling

Before handling the product, consult all the other sections of this material safety data sheet. Avoid leakage of the product into the environment. Do not eat, drink or smoke during use.

Frequency of use: up to 5 days/week.
Duration of use: up to 1 hour/day.
Internal use.

7.2. Conditions for safe storage, including any incompatibilities

Keep the product in clearly labelled containers. Keep containers away from any incompatible materials, see section 10 for details.

Storage class TRGS 510 (Germany): 10

7.3. Specific end use(s)

Follow the instructions on the product labeled or on the information sheet.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

L-(+)-LACTIC ACID

Predicted no-effect concentration - PNEC								
Normal value in fresh water		1,3		mg/l				
Normal value of STP microorganisms		10		mg/l				

Health - Derived no-effect level - DNEL / DMEL								
	Effects on consumers				Effects on workers			
Route of exposure	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral	VND	35,4 mg/kg/d						
Inhalation	296 mg/m3	VND			592 mg/m3	VND		

VND = hazard identified but no DNEL/PNEC available; NEA = no exposure expected; NPI = no hazard identified; LOW = low hazard; MED = medium hazard; HIGH = high hazard.

8.2. Exposure controls

The use of appropriate technical measures should always take priority over personal protection equipment. Provide a good level of general ventilation in the workplace (3 to 5 air changes per hour). The individual protection devices must bear the CE marking that certifies their compliance with the regulations in force.



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Provide good general ventilation (ventilation obtained by opening doors and windows): 3-5 air / hour changes (dilution efficiency: 30%).

HAND PROTECTION
Use category III gloves (ref. standard EN 374). For definitive choice of gloves material consider: compatibility, degradation, breakthrough time and permeation. Work gloves wear time depends upon duration and type of wear. Suitable gloves (protection factor 6, permeation time > 480 minutes), material (thickness, mm): nitrile rubber (0,35 mm), butyl rubber (0,5 mm), polychloroprene (0,5 mm), polyvinylchloride (0,5 mm).

SKIN PROTECTION
Wear category II professional long-sleeved overalls and safety footwear (see Regulation 2016/425 and standard EN ISO 20344). Wash body with soap and water after removing protective clothing.

EYE PROTECTION
Wear airtight protective goggles (see standard EN 166).

RESPIRATORY PROTECTION
If the threshold value (e.g. TLV-TWA) is exceeded for the substance or one of the substances present in the product, a mask with a type A filter combined with a type P filter should be worn (see standard EN 14387).
Respiratory protection devices must be used if the technical measures adopted are not suitable for restricting the worker's exposure to the threshold values considered. The protection provided by masks is in any case limited.

ENVIRONMENTAL EXPOSURE CONTROLS
The emissions generated by manufacturing processes, including those generated by ventilation equipment, should be checked to ensure compliance with environmental standards.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	straw-coloured	
Odour	characteristic	
Odour threshold	not determined	
Melting point / freezing point	not determined	
Initial boiling point	100 °C	
Flammability	not applicable	
Lower explosive limit	not determined	
Upper explosive limit	not determined	
Flash point	> 100 °C	
Auto-ignition temperature	not determined	
Decomposition temperature	400 °C	Substance:L-(+)-LACTIC ACID
pH	1,5-2,0	
Kinematic viscosity	not determined	
Solubility	soluble in water	
Partition coefficient: n-octanol/water	not applicable	
Vapour pressure	0,038 Pa	Substance:L-(+)-LACTIC ACID
Density and/or relative density	1,10-1,14	
Relative vapour density	not determined	
Particle characteristics	not applicable	

9.2. Other information

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9.2.1. Information with regard to physical hazard classes		
Information not available		
9.2.2. Other safety characteristics		
Evaporation rate	not determined	
Explosive properties	not determined	
Oxidising properties	Not applicable	
SECTION 10. Stability and reactivity		
10.1. Reactivity		
There are no particular risks of reaction with other substances in normal conditions of use.		
10.2. Chemical stability		
The product is stable in normal conditions of use and storage.		
10.3. Possibility of hazardous reactions		
No hazardous reactions are foreseeable in normal conditions of use and storage.		
10.4. Conditions to avoid		
None in particular. However the usual precautions used for chemical products should be respected.		
L-(+)-LACTIC ACID		
Avoid exposure to: high temperatures. 200 °C.		
10.5. Incompatible materials		
L-(+)-LACTIC ACID		
Avoid contact with: oxidising agents,strong bases.		
10.6. Hazardous decomposition products		
Heated to decomposition: carbon oxides, sulfur oxides, phosphorus oxides.		
SECTION 11. Toxicological information		
In the absence of experimental data for the product itself, health hazards are evaluated according to the properties of the substances it contains, using the criteria specified in the applicable regulation for classification. It is therefore necessary to take into account the concentration of the individual hazardous substances indicated in section 3, to evaluate the toxicological effects of exposure to the product.		
11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008		
<u>Metabolism, toxicokinetics, mechanism of action and other information</u> Information not available		

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Information on likely routes of exposure
Dermal, inhalation.

Delayed and immediate effects as well as chronic effects from short and long-term exposure
This product is corrosive and causes abrasions of skin surface, accompanied by rubefaction, warmth and sting. In the most serious cases, small vesicles appear, which cause strong sting and pain. Upon contact with eyes, it may cause serious harm, such as cornea opacity, iris lesions, irreversible eye coloration. The vapors and/or powders are caustic for the respiratory system and may cause pulmonary edema, whose symptoms sometimes arise only after some hours. Exposure symptoms may include: sting, cough, asthma, laryngitis, respiratory disorders, headache, nausea and sickness. If swallowed, it may cause mouth, throat and oesophagus burns, sickness, diarrhoea, edema, larynx swelling and, consequently, asphyxia. Perforation of the gastrointestinal tract is also possible.

Interactive effects
None known.

ACUTE TOXICITY

Corrosive to the respiratory tract.	
ATE (Inhalation) of the mixture:	Not classified (no significant component)
ATE (Oral) of the mixture:	Not classified (no significant component)
ATE (Dermal) of the mixture:	Not classified (no significant component)

L-(+)-LACTIC ACID

LD50 (Dermal):	> 2000 mg/kg rabbit
LD50 (Oral):	3543 mg/kg rat
LC50 (Inhalation vapours):	7,94 mg/l/4h rat

SKIN CORROSION / IRRITATION
Corrosive for the skin
Classification according to the experimental pH value

SERIOUS EYE DAMAGE / IRRITATION
Causes serious eye damage

RESPIRATORY OR SKIN SENSITISATION
Does not meet the classification criteria for this hazard class

L-(+)-LACTIC ACID
Buhler test: negative (guinea pig, EPA OPP 81-6).

GERM CELL MUTAGENICITY
Does not meet the classification criteria for this hazard class

L-(+)-LACTIC ACID
Ames test: negative (OECD method 471).

CARCINOGENICITY
Does not meet the classification criteria for this hazard class

REPRODUCTIVE TOXICITY
Does not meet the classification criteria for this hazard class

STOT - SINGLE EXPOSURE
Does not meet the classification criteria for this hazard class

STOT - REPEATED EXPOSURE
Does not meet the classification criteria for this hazard class

ASPIRATION HAZARD
Does not meet the classification criteria for this hazard class

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11.2. Information on other hazards

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with human health effects under evaluation.

SECTION 12. Ecological information

Use this product according to good working practices. Avoid littering. Inform the competent authorities, should the product reach waterways or contaminate soil or vegetation.

12.1. Toxicity

L-(+)-LACTIC ACID	
LC50 - for Fish	130 mg/l/96h Oncorhynchus mykiss
EC50 - for Crustacea	130 mg/l/48h Daphnia magna (metodo OECD 202).
EC50 - for Algae / Aquatic Plants	> 2800 mg/l/72h Pseudokirchneriella subcapitata
Chronic NOEC for Fish	2,18 mg/l 90 d, Oreochromus mossambica
Chronic NOEC for Algae / Aquatic Plants	1900 mg/l Pseudokirchneriella subcapitata

12.2. Persistence and degradability

L-(+)-LACTIC ACID	
Rapidly degradable	

12.3. Bioaccumulative potential

L-(+)-LACTIC ACID	
Irrelevant bioaccumulation.	
L-(+)-LACTIC ACID	
Partition coefficient: n-octanol/water	-0,54

12.4. Mobility in soil

L-(+)-LACTIC ACID	
Partition coefficient: soil/water	< 1,32

12.5. Results of PBT and vPvB assessment

On the basis of available data, the product does not contain any PBT or vPvB in percentage ≥ than 0,1%.

12.6. Endocrine disrupting properties

Based on the available data, the product does not contain substances listed in the main European lists of potential or suspected endocrine disruptors with environmental effects under evaluation.

12.7. Other adverse effects

None known.

SECTION 13. Disposal considerations

13.1. Waste treatment methods

Reuse, when possible. Product residues should be considered special hazardous waste. The hazard level of waste containing this product should be evaluated according to applicable regulations.

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Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.
Waste transportation may be subject to ADR restrictions.
CONTAMINATED PACKAGING
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.

European Waste Code (intact product):
15 01 10* - packaging containing residues of or contaminated by hazardous substances
20 01 29* - detergents containing hazardous substances

SECTION 14. Transport information

14.1. UN number or ID number

ADR / RID, IMDG, IATA:3265

14.2. UN proper shipping name

ADR / RID:CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (L-(+)-LACTIC ACID)
IMDG:CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (L-(+)-LACTIC ACID)
IATA:CORROSIVE LIQUID, ACIDIC, ORGANIC, N.O.S. (L-(+)-LACTIC ACID)

14.3. Transport hazard class(es)

ADR / RID:Class: 8Label: 8
IMDG:Class: 8Label: 8
IATA:Class: 8Label: 8





14.4. Packing group

ADR / RID, IMDG, IATA:III

14.5. Environmental hazards

ADR / RID:NO
IMDG:NO
IATA:NO

14.6. Special precautions for user

ADR / RID:HIN - Kemler: 80
Special provision: -
IMDG:EMS: F-A, S-B
IATA:Cargo:
Passengers:
Special provision:

Limited Quantities: 5 L

Limited Quantities: 5 L
Maximum quantity: 60 L
Maximum quantity: 5 L
A3, A803

Tunnel restriction code: (E)

Packaging instructions: 856
Packaging instructions: 852

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14.7. Maritime transport in bulk according to IMO instruments			
Information not relevant			
SECTION 15. Regulatory information			
15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture			
Seveso Category - Directive 2012/18/EU: None			
Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006			
<u>Product</u>			
Point	3		
<u>Contained substance</u>			
Point	75		
<u>Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors</u>			
not applicable			
<u>Substances in Candidate List (Art. 59 REACH)</u>			
On the basis of available data, the product does not contain any SVHC in percentage $\geq$ than 0,1%.			
<u>Substances subject to authorisation (Annex XIV REACH)</u>			
None			
<u>Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:</u>			
None			
<u>Substances subject to the Rotterdam Convention:</u>			
None			
<u>Substances subject to the Stockholm Convention:</u>			
None			
<u>Healthcare controls</u>			
Workers exposed to this chemical agent must not undergo health checks, provided that available risk-assessment data prove that the risks related to the workers' health and safety are modest and that the 98/24/EC directive is respected.			
Regulation (EC) No. 648/2004			
Ingredients according to Regulation (EC) No. 648/2004			
The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them,			

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at their direct request or at the request of a detergent manufacturer.

German regulation on the classification of substances hazardous to water (AwSV, vom 18. April 2017)

WGK 1: Low hazard to waters

15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances

L-(+)-LACTIC ACID

This safety data sheet contains one or more Exposure Scenarios in an integrated form. Contents have been included in sections 1.2, 8, 9, 12, 15 and 16 of this safety data sheet.

SECTION 16. Other information

Text of hazard (H) indications mentioned in section 2-3 of the sheet:

Skin Corr. 1C	Skin corrosion, category 1C
Eye Dam. 1	Serious eye damage, category 1
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
EUH071	Corrosive to the respiratory tract.

Use descriptor system:

ERC	8a	Widespread use of non- reactive processing aid (no inclusion into or onto article, indoor)
LCS	PW	Widespread use by professional workers
PC	35	Washing and cleaning products
PROC	10	Roller application or brushing
PROC	11	Non industrial spraying
PROC	13	Treatment of articles by dipping and pouring
PROC	8a	Transfer of substance or mixture (charging and discharging) at non- dedicated facilities

LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- ATE: Acute Toxicity Estimate
- CAS: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE: Identifier in ESIS (European archive of existing substances)
- CLP: Regulation (EC) 1272/2008
- DNEL: Derived No Effect Level
- EmS: Emergency Schedule
- GHS: Globally Harmonized System of classification and labeling of chemicals
- IATA DGR: International Air Transport Association Dangerous Goods Regulation
- IC50: Immobilization Concentration 50%
- IMDG: International Maritime Code for dangerous goods
- IMO: International Maritime Organization
- INDEX: Identifier in Annex VI of CLP
- LC50: Lethal Concentration 50%
- LD50: Lethal dose 50%
- OEL: Occupational Exposure Level
- PBT: Persistent bioaccumulative and toxic as REACH Regulation
- PEC: Predicted environmental Concentration
- PEL: Predicted exposure level

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- PNEC: Predicted no effect concentration - REACH: Regulation (EC) 1907/2006 - RID: Regulation concerning the international transport of dangerous goods by train - TLV: Threshold Limit Value - TLV CEILING: Concentration that should not be exceeded during any time of occupational exposure. - TWA: Time-weighted average exposure limit - TWA STEL: Short-term exposure limit - VOC: Volatile organic Compounds - vPvB: Very Persistent and very Bioaccumulative as for REACH Regulation - WGK: Water hazard classes (German).		
GENERAL BIBLIOGRAPHY 1. Regulation (EC) 1907/2006 (REACH) of the European Parliament 2. Regulation (EC) 1272/2008 (CLP) of the European Parliament 3. Regulation (EU) 2020/878 (II Annex of REACH Regulation) 4. Regulation (EC) 790/2009 (I Atp. CLP) of the European Parliament 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament 6. Regulation (EU) 618/2012 (III Atp. CLP) of the European Parliament 7. Regulation (EU) 487/2013 (IV Atp. CLP) of the European Parliament 8. Regulation (EU) 944/2013 (V Atp. CLP) of the European Parliament 9. Regulation (EU) 605/2014 (VI Atp. CLP) of the European Parliament 10. Regulation (EU) 2015/1221 (VII Atp. CLP) of the European Parliament 11. Regulation (EU) 2016/918 (VIII Atp. CLP) of the European Parliament 12. Regulation (EU) 2016/1179 (IX Atp. CLP) 13. Regulation (EU) 2017/776 (X Atp. CLP) 14. Regulation (EU) 2018/669 (XI Atp. CLP) 15. Regulation (EU) 2019/521 (XII Atp. CLP) 16. Delegated Regulation (UE) 2018/1480 (XIII Atp. CLP) 17. Regulation (EU) 2019/1148 18. Delegated Regulation (UE) 2020/217 (XIV Atp. CLP) 19. Delegated Regulation (UE) 2020/1182 (XV Atp. CLP) 20. Delegated Regulation (UE) 2021/643 (XVI Atp. CLP) 21. Delegated Regulation (UE) 2021/849 (XVII Atp. CLP) 22. Delegated Regulation (UE) 2022/692 (XVIII 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 website - Database of SDS models for chemicals - Ministry of Health and ISS (Istituto Superiore di Sanità) - Italy		
Note for users: The information contained in the present sheet are based on our own knowledge on the date of the last version. Users must verify the suitability and thoroughness of provided information according to each specific use of the product. This document must not be regarded as a guarantee on any specific product property. The use of this product is not subject to our direct control; therefore, users must, under their own responsibility, comply with the current health and safety laws and regulations. The producer is relieved from any liability arising from improper uses. Provide appointed staff with adequate training on how to use chemical products. CALCULATION METHODS FOR CLASSIFICATION Chemical and physical hazards: Product classification derives from criteria established by the CLP Regulation, Annex I, Part 2. The data for evaluation of chemical-physical properties are reported in section 9. Health hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 3, unless determined otherwise in Section 11. Environmental hazards: Product classification is based on calculation methods as per Annex I of CLP, Part 4, unless determined otherwise in Section 12.		