

## Safety Data Sheet

According to Annex II to REACH - Regulation 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

Product name **CYTREAT® P 601**  
UFI : **QV41-W06E-V00T-JDVC**

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

Intended use **Additive for paper mill**

Identified Uses	Industrial	Professional	Consumer
Additive for paper mill	✓	-	-
Uses Advised Against			
Any use not included among those recommended			

#### 1.3. Details of the supplier of the safety data sheet

Name **N.C.R. BIOCHEMICAL S.p.A.**  
Full address **Via dei Carpentieri, 8-Zona Industriale il Prato**  
District and Country **40050 Castello d'Argile (BO) Italia**  
Tel. **+39 051 6869611 Lun-Ven 8.30-13.00/14.00-16.30**  
Fax **+39 051 6869617**

e-mail address of the competent person responsible for the Safety Data Sheet **regulatory@ncr-biochemical.com**

#### 1.4. Emergency telephone number

For urgent inquiries refer to **Italy:**  
**CAV Ospedale Niguarda Ca' Granda - Milano 02 66101029**  
**CAV Azienda Ospedaliera Papa Giovanni XXII - Bergamo 800 883300**  
**CAV Centro Nazionale di Informazione Tossicologica - Pavia 0382 24444**  
**CAV Az. Osp. Careggi - Firenze 055 7947819**  
**CAV Policlinico Gemelli - Roma 06 3054343**  
**CAV Policlinico Umberto I - Roma 06 49978000**  
**CAV Osp. Pediatrico Bambino Gesù - Roma 06 68593726**  
**CAV Az. Osp. Cardarelli - Napoli 081 7472870**  
**CAV Az. Osp. Univ. Foggia - Foggia 800183459**

### 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:

Serious eye damage, category 1	H318	Causes serious eye damage.
Skin irritation, category 2	H315	Causes skin irritation.
Hazardous to the aquatic environment, chronic toxicity, category 3	H412	Harmful to aquatic life with long lasting effects.

## SECTION 2. Hazards identification ... / >>

### 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:

- H318** Causes serious eye damage.  
**H315** Causes skin irritation.  
**H412** Harmful to aquatic life with long lasting effects.

Precautionary statements:

- P305+P351+P338** IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
**P280** Wear protective gloves / eye protection / face protection.  
**P310** Immediately call a POISON CENTER/doctor.  
**P264** Wash hands thoroughly after handling.  
**P273** Avoid release to the environment.

**Contains:** Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)

### 2.3. Other hazards

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

The product does not contain substances with endocrine disrupting properties in concentration  $\geq$  0.1%.

## SECTION 3. Composition/information on ingredients

### 3.1. Substances

Information not relevant

### 3.2. Mixtures

Contains:

Identification	x = Conc. %	Classification (EC) 1272/2008 (CLP)
<b>Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)</b>		
CAS	8051-30-7 $10 \leq x < 15$	<b>Eye Dam. 1 H318, Skin Irrit. 2 H315, Aquatic Chronic 2 H411</b>
EC	232-483-0	
INDEX		
REACH Reg.	01-2119490100-53-XXXX	

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

## 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 30-60 minutes, opening the eyelids fully. Get medical advice/attention.

**SKIN:** Remove contaminated clothing. Rinse skin with a shower immediately. Get medical advice/attention.

**INGESTION:** Have the subject drink as much water as possible. Get medical advice/attention. Do not induce vomiting unless explicitly authorised by a doctor.

**SECTION 4. First aid measures ... / >>**

**INHALATION:** Get medical advice/attention immediately. Remove victim to fresh air, away from the accident scene. If the subject stops breathing, administer artificial respiration. Take suitable precautions for rescue workers.

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

Specific information on symptoms and effects caused by the product are unknown.

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

Information not available

**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**

Block the leakage if there is no hazard.

Wear suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing. 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.

**6.3. Methods and material for containment and cleaning up**

Collect the leaked product into a suitable container. Evaluate the compatibility of the container to be used, by checking section 10. Absorb the remainder with inert absorbent material.

Make sure the leakage site is well aired. 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. Remove any contaminated clothes and personal protective equipment before entering places in which people eat.

## SECTION 7. Handling and storage ... / >>

### 7.2. Conditions for safe storage, including any incompatibilities

Store only in the original container. Store the containers sealed, in a well ventilated place, away from direct sunlight. Keep containers away from any incompatible materials, see section 10 for details.

### 7.3. Specific end use(s)

See the exposure scenarios attached to this safety datasheet.

## SECTION 8. Exposure controls/personal protection

### 8.1. Control parameters

#### Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)

##### Predicted no-effect concentration - PNEC

Normal value in fresh water	0,007	mg/l
Normal value in marine water	0,001	mg/l
Normal value for fresh water sediment	0,195	mg/kg
Normal value for marine water sediment	0,019	mg/kg
Normal value of STP microorganisms	830	mg/l
Normal value for the terrestrial compartment	0,035	mg/kg

##### Health - Derived no-effect level - DNEL / DMEL

Route of exposure	Effects on consumers			Effects on workers				
	Acute local	Acute systemic	Chronic local	Chronic systemic	Acute local	Acute systemic	Chronic local	Chronic systemic
Oral				6,25 mg/kg bw/d				
Inhalation				21,73 mg/m3				73,4 mg/m3
Skin			0,0562 mg/cm2	2,5 mg/kg bw/d			0,0936 mg/kg bw/d	4,16 mg/kg bw/d

VND = hazard identified but no DNEL/PNEC available ; NEA = no exposure expected ; NPI = no hazard identified.

### 8.2. Exposure controls

As the use of adequate technical equipment must always take priority over personal protective equipment, make sure that the workplace is well aired through effective local aspiration.

When choosing personal protective equipment, ask your chemical substance supplier for advice.

Personal protective equipment must be CE marked, showing that it complies with applicable standards.

When choosing risk management measures and operating conditions, consult the exposure scenarios attached.

Provide an emergency shower with face and eye wash station.

#### HAND PROTECTION

Protect hands with category III work gloves (see standard EN 374).

The following should be considered when choosing work glove material: compatibility, degradation, failure time and permeability.

The work gloves' resistance to chemical agents should be checked before use, as it can be unpredictable. The gloves' wear time depends on the duration and type of use.

#### 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, use a mask with a type A filter whose class (1, 2 or 3) must be chosen according to the limit of use concentration. (see standard EN 14387). In the presence of gases or vapours of various kinds and/or gases or vapours containing particulate (aerosol sprays, fumes, mists, etc.) combined filters are required.

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.

If the substance considered is odourless or its olfactory threshold is higher than the corresponding TLV-TWA and in the case of an emergency, wear open-circuit compressed air breathing apparatus (in compliance with standard EN 137) or external air-intake breathing apparatus (in compliance with standard EN 138). For a correct choice of respiratory protection device, see standard EN 529.

#### ENVIRONMENTAL EXPOSURE CONTROLS

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

Product residues must not be indiscriminately disposed of with waste water or by dumping in waterways.

For information on controlling environmental exposure, see the exposure scenarios attached to this safety datasheet.

## SECTION 9. Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Properties	Value	Information
Appearance	liquid	
Colour	opalescent	
Odour	characteristic	
Melting point / freezing point	0 °C	Method:ITL 71
Initial boiling point	> 100 °C	
Flammability	not applicable because the product is liquid	
Lower explosive limit	Not applicable	
Upper explosive limit	Not applicable	
Flash point	> 60 °C	
Auto-ignition temperature	Not determined	
Decomposition temperature	Not determined	
pH	9,8 ± 0,5	Method:ITL 70 Temperature: 25 °C
Kinematic viscosity	161,2 mPa	Method:ITL 66 Remark:L2\100rpm Temperature: 31 °C Method:ITL 73
Solubility	soluble in water	
Partition coefficient: n-octanol/water	Not determined	
Vapour pressure	Not determined	
Density and/or relative density	1,01 ± 0,05 kg/l	Method:ITL 15 B Temperature: 20 °C
Relative vapour density	Not available	
Particle characteristics	Not applicable	

### 9.2. Other information

#### 9.2.1. Information with regard to physical hazard classes

Information not available

#### 9.2.2. Other safety characteristics

Explosive properties not applicable because it does not contain any explosives functional groups  
Oxidising properties not applicable because it does not contain any oxidizing functional groups

## 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.

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
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.

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
Avoid exposure to: high temperatures, light, UV rays, naked flames, heat.

### 10.5. Incompatible materials

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
Avoid contact with: oxidising agents.

### 10.6. Hazardous decomposition products

**SECTION 10. Stability and reactivity** ... / >>

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
In decomposition develops: amines,nitric oxide,carbon dioxide,carbon monoxide.

**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**

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
Unless otherwise specified in the following paragraphs, for the involved substance toxicological data in the following list are considered not available: acute toxicity, skin corrosion/irritation, serious eye damage/irritation, respiratory or skin sensitisation, germ cell mutagenicity, carcinogenicity, reproductive toxicity, STOT - single exposure, STOT - repeated exposure, aspiration hazard.

Metabolism, toxicokinetics, mechanism of action and other information

Information not available

Information on likely routes of exposure

Information not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
OECD 407 Repeated dose, 28-day, Oral Toxicity Study Rat: NOAEL > 750 mg/kg bw/day (reliability 2)

Interactive effects

Information not available

ACUTE TOXICITY

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)

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	
LD50 (Dermal):	> 2000 mg/kg Rabbit
LD50 (Oral):	> 2000 mg/kg Rat, according to OECD Guideline 401, reliability 1

SKIN CORROSION / IRRITATION

Causes skin irritation

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
OECD 404 Acute Dermal Irritation / Corrosion Rabbit, skin: Irritating (reliability 2)

SERIOUS EYE DAMAGE / IRRITATION

Causes serious eye damage

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
OECD 405 Acute Eye Irritation / Corrosion Rabbit, eyes: strongly irritating (reliability 2)

RESPIRATORY OR SKIN SENSITISATION

Does not meet the classification criteria for this hazard class

Respiratory sensitization

Information not available

Skin sensitization

**SECTION 11. Toxicological information ... / >>**

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
OECD 406 Skin Sensitization, guinea pig: Non-sensitizing (reliability 2)  
Based on available data, the classification criteria are not met.

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
OECD 471 Bacteria reverse mutation test: negative (reliability 1)  
OECD 474 Mammalian Erythrocyte Micronucleus Test: negative (reliability 1)  
No significant effects or critical hazards are known.

CARCINOGENICITY

Does not meet the classification criteria for this hazard class

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
Carcinogenicity: cutaneous, rat, 2 years, 5 days every week: negative. No significant effects or critical hazards are known.

REPRODUCTIVE TOXICITY

Does not meet the classification criteria for this hazard class

Adverse effects on sexual function and fertility

Information not available

Adverse effects on development of the offspring

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
OECD 414 Prenatal Developmental Toxicity Study Rat: 1000 mg / kg NOAEL (reliability 2)  
No significant effects or critical hazards are known.

Effects on or via lactation

Information not available

STOT - SINGLE EXPOSURE

Does not meet the classification criteria for this hazard class

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
Based on available data, the classification criteria are not met.

Target organs

Information not available

Route of exposure

Information not available

STOT - REPEATED EXPOSURE

Does not meet the classification criteria for this hazard class

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
Based on available data, the classification criteria are not met.

Target organs

Information not available

Route of exposure

Information not available

ASPIRATION HAZARD

### SECTION 11. Toxicological information ... / >>

Does not meet the classification criteria for this hazard class

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)  
Based on available data, the classification criteria are not met.

#### 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

This product is dangerous for the environment and the aquatic organisms. In the long term, it have negative effects on aquatic environment.

#### 12.1. Toxicity

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	
LC50 - for Fish	2,4 mg/l/96h Oncorhynchus mykiss, according to OECD 203, semi-static, reliability 1
EC50 - for Crustacea	3,2 mg/l/48h Daphnia magna, static, according to OECD 202, reliability 1
EC50 - for Algae / Aquatic Plants	18,6 mg/l/96h Desmodesmus subspicatus, according to EU EC C.3, static, Algal Inhibition test, reliability 1
Chronic NOEC for Fish	0,32 mg/l Oncorhynchus mykiss, according to OECD 204, 14d, flow, read-across, reliability 2
Chronic NOEC for Crustacea	0,07 mg/l Daphnia magna, according to OECD 211, 21d, semi-static, read-across, reliability 2
Chronic NOEC for Algae / Aquatic Plants	2 mg/l Desmodesmus subspicatus, according to EU EC C.3, 72h static Algal Inhibition test, reliability 1

#### 12.2. Persistence and degradability

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	
Rapidly degradable	92,5%, 28D, OECD 301B

#### 12.3. Bioaccumulative potential

Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)	
Partition coefficient: n-octanol/water	3,75
BCF	65,36

#### 12.4. Mobility in soil

Information not available

#### 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  $\geq$  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

Information not available

### 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.  
Disposal must be performed through an authorised waste management firm, in compliance with national and local regulations.  
CONTAMINATED PACKAGING  
Contaminated packaging must be recovered or disposed of in compliance with national waste management regulations.



### SECTION 14. Transport information

The product is not dangerous under current provisions of the Code of International Carriage of Dangerous Goods by Road (ADR) and by Rail (RID), of the International Maritime Dangerous Goods Code (IMDG), and of the International Air Transport Association (IATA) regulations.

#### 14.1. UN number or ID number

Not applicable

#### 14.2. UN proper shipping name

Not applicable

#### 14.3. Transport hazard class(es)

Not applicable

#### 14.4. Packing group

Not applicable

#### 14.5. Environmental hazards

Not applicable

#### 14.6. Special precautions for user

Not applicable

#### 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

Product  
Point 3

Regulation (EU) 2019/1148 - on the marketing and use of explosives precursors

Not applicable

Substances in Candidate List (Art. 59 REACH)

On the basis of available data, the product does not contain any SVHC in percentage  $\geq$  than 0,1%.

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to Regulation (EU) 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

None

Healthcare controls

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.

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

### SECTION 15. Regulatory information ... / >>

WGK 1: Low hazard to waters

#### 15.2. Chemical safety assessment

A chemical safety assessment has been performed for the following contained substances  
Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)

### SECTION 16. Other information

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

<b>Eye Dam. 1</b>	Serious eye damage, category 1
<b>Skin Irrit. 2</b>	Skin irritation, category 2
<b>Aquatic Chronic 2</b>	Hazardous to the aquatic environment, chronic toxicity, category 2
<b>Aquatic Chronic 3</b>	Hazardous to the aquatic environment, chronic toxicity, category 3
<b>H318</b>	Causes serious eye damage.
<b>H315</b>	Causes skin irritation.
<b>H411</b>	Toxic to aquatic life with long lasting effects.
<b>H412</b>	Harmful to aquatic life with long lasting effects.

#### 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
- 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

**SECTION 16. Other information ... / >>**

- 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)

- 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.

**Changes to previous review:**

The following sections were modified:

01 / 02 / 07 / 08 / 09 / 11 / 12 / 15 / 16.

**Exposure Scenarios**

Substance	Amides, C8-18 (even numbered) and C18-unsatd., N, N-bis(hydroxyethyl)
Scenario Title	SE_Cocamide DEA
Revision nr.	6
File	EN_SECOCAMIDEDEA_6.pdf