

**CYTREAT® 435** 

Dated 23/11/2018
Printed on 28/10/2020
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Replaced revision:6 (Dated 15/03/2018

# Safety Data Sheet

According to Annex II to REACH - Regulation 2015/830

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

#### 1.1. Product identifier

Product name CYTREAT® 435

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

Intended use Auxiliary 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 Headquarter Via dei Carpentieri, 8 - Zona Industriale il Prato

District and Country 40050 Castello d'Argile (BO)

Italia

Tel. +39 051 6869611 Mon-Fri 8.30-13.00/14.00-16.30

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e-mail address of the competent person

responsible for the Safety Data Sheet regulatory@ncr-biochemical.it

#### 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 2015/830.

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:

Hazardous to the aquatic environment, chronic toxicity, category 2

H411

Toxic to aquatic life with long lasting effects.

#### 2.2. Label elements

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

Hazard pictograms:





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

Signal words:

Hazard statements:

H411 Toxic to aquatic life with long lasting effects. **EUH208** 1,2-benzisothiazol-3(2H)-one

May produce an allergic reaction.

Precautionary statements:

P273 Avoid release to the environment.

P391 Collect spillage.

P280 Wear protective gloves/ protective clothing / eye protection / face protection.

Product not intended for uses provided for by Dir. 2004/42/CE.

#### 2.3. Other hazards

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

# **SECTION 3. Composition/information on ingredients**

#### 3.1. Substances

Information not relevant

#### 3.2. Mixtures

Contains:

Classification 1272/2008 (CLP) Identification x = Conc. %

**CARBOXAMIDE DERIVATIVE** 

CAS  $5 \le x < 10$ Aquatic Acute 1 H400 M=1, Aquatic Chronic 1 H410 M=1

EC INDEX

Reg. no.

Polymer **AMMINIC POLYMER** 

CAS  $5 \le x < 10$ Aquatic Chronic 2 H411 EC

INDEX

Polymer Rea. no. 1,2-benzisothiazol-3(2H)-one

2634-33-5 Acute Tox. 2 H330, Acute Tox. 4 H302, Eye Dam. 1 H318, Skin Irrit. 2 H315, CAS  $0 \le x < 0.05$ 

Skin Sens. 1 H317, Aquatic Acute 1 H400 M=1, Aquatic Chronic 2 H411

FC 220-120-9 **INDEX** 613-088-00-6

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

No episodes of harm to the staff authorised to use the product have been reported. The following general measures should be adopted as necessary:

INHALATION: Remove to open air. If the subject stops breathing, administer artificial respiration. Get medical advice/attention.

INGESTION: Get medical advice/attention. Induce vomiting only if indicated by the doctor. Do not give anything by mouth to an unconscious

EYES and SKIN: Wash with plenty of water. In the event of persistent irritation, get medical advice/attention.

### 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



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# **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. Wash hands after use.

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

Keep the product in clearly labelled containers. Store the containers sealed, in a well ventilated place, away from direct sunlight.

Storage class TRGS 510 (Germany): 12

### 7.3. Specific end use(s)

Information not available



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# **SECTION 8. Exposure controls/personal protection**

#### 8.1. Control parameters

Information not available

#### 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.

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 I 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 B 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.

# **SECTION 9. Physical and chemical properties**

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

**Properties** Value Information Appearance liquid Colour yellow Odour none Odour threshold Not available рΗ  $8.0 \pm 1.0$ Melting point / freezing point -2 °C Initial boiling point 100 °C Boiling range Not available Flash point 93 °C Not available **Evaporation Rate** 

Flammability of solids and gases not applicable because the product is liquid

Lower inflammability limit Not available Upper inflammability limit Not available Lower explosive limit Not applicable Upper explosive limit Not applicable Vapour pressure Not available Not available Vapour density Relative density  $1,06 \pm 0,05$ soluble in water Solubility Partition coefficient: n-octanol/water Not available Auto-ignition temperature Not applicable

Decomposition temperature

Not available

123.5 mPa (26.7°C) 201

Viscosity 123,5 mPa (26,7°C\L2\100rpm)

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



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### SECTION 9. Physical and chemical properties .../>

#### 9.2. Other information

Information not available

# **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.

#### 10.5. Incompatible materials

Information not available

#### 10.6. Hazardous decomposition products

Information not available

### **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 toxicological effects

LD50 (oral, rat) > 3000 mg/kg, not experimental data, reported by the values of the components

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

Information not available

Interactive effects

Information not available

# ACUTE TOXICITY

ATE (Inhalation) of the mixture:

ATE (Oral) of the mixture:

ATE (Dermal) of the mixture:

Not classified (no significant component)

Not classified (no significant component)

Not classified (no significant component)

1,2-benzisothiazol-3(2H)-one

LD50 (Oral) LD50 (Dermal) LC50 (Inhalation) 490 mg/kg Rat, equivalent or similar to OECD Guideline 401, reliability 1 > 2000 mg/kg Rat, according to OECD Guideline 402, reliability 2

1,6 mg/l/4h calculated



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CTIRLA

SECTION 11. Toxicological information .../>>

at the concentration of 20%

CARBOXAMIDE DERIVATIVE LD50 (Oral)

> 2000 mg/kg Rat Guideline OECD 401

SKIN CORROSION / IRRITATION

Does not meet the classification criteria for this hazard class

SERIOUS EYE DAMAGE / IRRITATION

Does not meet the classification criteria for this hazard class

RESPIRATORY OR SKIN SENSITISATION

May produce an allergic reaction. Contains:

1,2-benzisothiazol-3(2H)-one

GERM CELL MUTAGENICITY

Does not meet the classification criteria for this hazard class

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

### **SECTION 12. Ecological information**

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

### 12.1. Toxicity

CARBOXAMIDE DERIVATIVE

CI50 > 100 mg/l (3 h, mixed liquor), OECD TG 209

1,2-benzisothiazol-3(2H)-one

LC50 - for Fish 2,15 mg/l/96h Cyprinodon variegatus, EPA 540/9-85-006, reliability 1
EC50 - for Crustacea 2,15 mg/l/48h Daphnia magna, according to OECD Guideline 202, reliability 1

EC50 - for Algae / Aquatic Plants 0,0403 mg/l/72h Pseudokirchneriella subcapitata, according to OECD Guideline 201,

reliability 1

Chronic NOEC for Algae / Aquatic Plants 0,11 mg/l Pseuriella subcapitata, according to OECD Guideline 201, reliability 1

CARBOXAMIDE DERIVATIVE

LC50 - for Fish 2 mg/l/96h Oncorhynchus mykiss, Guideline OECD 203

LC10 for Fish 1 mg/l/96h LC0 test, Oncorhynchus mykiss, Guideline OECD 203

AMMINIC POLYMER

LC50 - for Fish 33 mg/l/96h Brachydanio rerio EC50 - for Crustacea 19,8 mg/l/48h Daphnia magna

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#### SECTION 12. Ecological information .../>>

#### 12.2. Persistence and degradability

1,2-benzisothiazol-3(2H)-one

Rapidly degradable

CARBOXAMIDE DERIVATIVE

NOT rapidly degradable 4% Dissolved organic carbon, 27d, OECD 303A

AMMINIC POLYMER

Analisys method: BOD del ThOD, < 10%, 29d NOT rapidly degradable

12.3. Bioaccumulative potential

1,2-benzisothiazol-3(2H)-one

Partition coefficient: n-octanol/water

0,7 Log Kow OECD 117, S 324 6,95 - OECD 305, S 2243 **BCF** 

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 ≥ than 0,1%.

#### 12.6. Other adverse effects

AMMINIC POLYMER

Microorganisms / Effect on activated sludge: Pseudomonas putida/CE50 (16h): 3.6 mg / l

The inhibition of low concentrations in biological wastewater treatment plant, should not affect the degradation activity of activated sludge.

# **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.

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.

# **SECTION 14. Transport information**

### 14.1. UN number

ADR / RID, IMDG, IATA: 3082

ADR / RID: In accordance with Special Provision 375, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not

submitted to ADR provisions.

IMDG: In accordance with Section 2.10.2.7 of IMDG Code, this product, when is packed in receptacles of a capacity ≤ 5Kg or

5L, is not submitted to IMDG Code provisions.

IATA: In accordance with SP A197, this product, when is packed in receptacles of a capacity ≤ 5Kg or 5L, is not submitted to

IATA dangerous goods regulations.

## 14.2. UN proper shipping name

ADR / RID: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (derived carboxamide) IMDG: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (derived carboxamide) IATA: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (derived carboxamide)

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# SECTION 14. Transport information .../>>

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

ADR / RID:

Class: 9

Label: 9

IMDG:

Class: 9

Label: 9

IATA:

Class: 9

Label: 9



#### 14.4. Packing group

ADR / RID, IMDG, IATA:

#### 14.5. Environmental hazards

ADR / RID:

**Environmentally Hazardous** 

IMDG:

Marine Pollutant

Ш

IATA:

**Environmentally Hazardous** 



#### 14.6. Special precautions for user

ADR / RID:

HIN - Kemler: 90

Limited Quantities: 5 L

Tunnel restriction code: (-)

IMDG: IATA: Special Provision: -

EMS: F-A, S-F Cargo:

Pass.:

Limited Quantities: 5 L Maximum quantity: 450 L

Maximum quantity: 450 L A97. A158. A197 Packaging instructions: 964 Packaging instructions: 964

Special Instructions:

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

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/EC:

E:

Restrictions relating to the product or contained substances pursuant to Annex XVII to EC Regulation 1907/2006

Product

Point

3

Substances in Candidate List (Art. 59 REACH)

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

Substances subject to authorisation (Annex XIV REACH)

None

Substances subject to exportation reporting pursuant to (EC) Reg. 649/2012:

None

Substances subject to the Rotterdam Convention:

None

Substances subject to the Stockholm Convention:

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

None

Healthcare controls
Information not available

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

WGK 2: Hazard to waters

#### 15.2. Chemical safety assessment

No chemical safety assessment has been processed for the mixture and the substances it contains.

### **SECTION 16. Other information**

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

Acute Tox. 2
Acute Tox. 4
Eye Dam. 1
Skin Irrit. 2
Skin Sens. 1
Acute toxicity, category 2
Acute toxicity, category 4
Serious eye damage, category 1
Skin sensitization, category 2
Skin sensitization, category 1

Aquatic Acute 1 Hazardous to the aquatic environment, acute toxicity, category 1
Aquatic Chronic 1 Hazardous to the aquatic environment, chronic toxicity, category 1
Aquatic Chronic 2 Hazardous to the aquatic environment, chronic toxicity, category 2

H330Fatal if inhaled.H302Harmful if swallowed.H318Causes serious eye damage.H315Causes skin irritation.

**H317** May cause an allergic skin reaction.

**H400** Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.H411 Toxic to aquatic life with long lasting effects.

#### LEGEND:

- ADR: European Agreement concerning the carriage of Dangerous goods by Road
- CAS NUMBER: Chemical Abstract Service Number
- CE50: Effective concentration (required to induce a 50% effect)
- CE NUMBER: Identifier in ESIS (European archive of existing substances)
- CLP: EC Regulation 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 NUMBER: 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: EC Regulation 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 STEL: Short-term exposure limit
- TWA: Time-weighted average 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) 790/2009 (I Atp. CLP) of the European Parliament
- 4. Regulation (EU) 2015/830 of the European Parliament



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#### SECTION 16. Other information .../>>

- 5. Regulation (EU) 286/2011 (II Atp. CLP) of the European Parliament6. 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)
- 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.

Changes to previous review: The following sections were modified: 01 / 09 / 11 / 12 / 14 / 15.