

# Safety Data Sheet

Conforms to Regulation (EU) 2015/830 of the Committee of 28 May 2015 amending Regulation (EC) no. 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)  
Safety Data Sheet according to Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

Date of issue:  
06/02/25  
Revision Date:  
24/04/23  
Version: 1.2

## BIOCOL

### Section 1 IDENTIFICATION OF THE MIXTURE AND COMPANY

#### 1.1. Product identifier

Name: BIOCOL  
Manufacturer code: 102692

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

Bioprocessing Columns  
See the label for more information.

#### 1.3. Information concerning the supplier of the safety data sheet

Corporate name: IPC

Address: 10 Quai CDT MalbertCS 71821

Country Code/Postal Code/City: FR 29218 BREST CEDEX 2

Telephone: 02 98 43 45 44

Email: [ipc.serviceclients@groupe-ipc.com](mailto:ipc.serviceclients@groupe-ipc.com)

Maker: [www.ipc-sa.com](http://www.ipc-sa.com)

#### 1.4. Emergency telephone number

ORFILA (INRS) - poison control centers list FR: +33 (0)1 45 42 59 59, BE: +32 70 245 245, ES: +34 91 562 04 20, HR: +3851 2348 342, DK: +45 82 12 12 12, FI: +358 9 471 977, DE: +49 30 19240, HU: +36 80 201 199, LV: +371 670 810 12, LU: +352 8002 5500, NL: +31 (0)88 755 8000, PL: +48 22 25 00 748, RO: +402 13 18 36 06, SK: +421 2 5477 4166  
Company/body: INRS

### Section 2 IDENTIFICATION OF HAZARDS

#### 2.1. Classification of the substance or mixture

##### 2.1.1. In accordance with regulation (EC) no. 1272/2008 and its adaptations

Not classified

#### 2.2. Label elements

##### 2.2.1. In accordance with regulation (EC) no. 1272/2008 and its adaptations

Not classified

##### 2.2.2. Warning message

Not classified

##### 2.2.3. Product identifier

Contains no ingredient contributing to a hazard

##### 2.2.4. Hazard statements and additional information about hazards

EUH 210 : Safety data sheets available on request.

##### 2.2.5. Safety precautions

None

#### 2.3. Other hazards

The substance Sodium Nitrate N°CAS: 7631-99-4 meets the classification criteria "Explosives precursors Annex II Regulation 2019/1148"

## Section 3 COMPOSITION / INFORMATION ON INGREDIENTS

### 3.1. Substances:

Not concerned

### 3.2. Mixtures:

| Identification                                                                                                                                                      | (CE) 1272/2008                                                | Nota | %            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|------|--------------|
| Inci: Sodium Nitrate<br><b>Iupac: Sodium Nitrate</b><br><b>CAS: 7631-99-4</b><br>CE: 231-554-3<br>ID: N/D<br>N° REACH: 01-2119488221-41                             | Ox. Sol. 2, H272<br>Eye Irrit. 2, H319                        | [2]  | >= 1% & < 5% |
| Inci: ferrous sulfate heptahydrate<br><b>Iupac: ferrous sulfate heptahydrate</b><br><b>CAS: 7782-63-0</b><br>CE: 231-753-5<br>ID: N/D<br>N° REACH: 01-2119513203-57 | Acute Tox. 4, H302<br>Skin Irr. 2, H315<br>Eye Irrit. 2, H319 |      | >= 1% & < 5% |
| [2]: Explosives precursors Annex II Regulation 2019/1148                                                                                                            |                                                               |      |              |

The other components of this mixture are not classified according to the CLP criteria and/or Directive 67/548/EC or are present in concentrations below the threshold values.

### 3.3. Substances that are subject of exposure limit values at the workplace:

Refer to paragraph 8

## Section 4 FIRST AID

Generally, in case of doubt or if the symptoms persist, always call a doctor.

If the person is unconscious, place in the security recovery position.

NEVER give anything by mouth to an unconscious person.

Turn on side a person lie on his back, who is vomiting.

### 4.1. Description of first aid:

#### 4.1.1. In case of inhalation:

In case of massive inhalation, move the victim to fresh air.

No adverse effects anticipated by this route of exposure incidental to proper industrial handling.

#### 4.1.2. In case of splashing or contact with eyes:

Rinse the eye thoroughly with lukewarm water (20 to 25 ° C), soft and clean (or with physiological saline), for at least 15 minutes, keeping the eyelids open. Avoid splashing towards the unaffected eye (e.g. using a compress). Water always flows from the nose to the ear. Move the eye in all directions when rinsing.

Take out contact lenses if the victim wears lenses and if it is possible to take them out of the eyes easily. Continue to rinse.

If the eye irritation persists, or if new symptoms (pain, visual discomfort) occur, consult an ophthalmologist.

#### 4.1.3. In case of contact with skin:

If skin irritation persists, or in case of allergic manifestation, consult a specialist doctor.

#### 4.1.4. In case of ingestion:

Rinse mouth.

Do not induce vomiting, rinse mouth.

Consult a doctor immediately.

Bring to the free air in case of massive inhalation. Keep him in a warm place and at rest. Consult a doctor.

### 4.2. Main symptoms and effects, both acute and delayed:

The main known symptoms and effects are described on the labeling (see section 2.2) and / or in section 11.

### 4.3. Indication of immediate medical attention and special treatment needed:

Seek advice from a poison control centre or a toxicologist.

Consult your doctor and show this safety data sheet.

## Section 5 FIRE-FIGHTING MEASURES

### 5.1. Extinguishing agents

All extinguishing agents are permitted: foam, sand, carbon dioxide, water, powder.

Extinguishing media which must not be used: Water jet (risk of fire spreading)

### 5.2. Special hazards arising from the substance or mixture:

Possibly, and because of the presence of organic matter, a fire could produce a thick black smoke. The exposure to the products of decomposition could involve health risks.

Do not breathe fumes.

### 5.3. Advice for fire-fighters:

Full protective clothing.

Wear self-contained respiratory protective device (insulating stand-alone respiratory protective device).

Prevent heating of containers exposed to fire by spraying with water (water curtain).

Avoid spraying water directly onto the storage tank to prevent the product from overflowing.  
Do not allow extinguishing water to enter sewers or waterways. Treat as hazardous waste.  
Consider the residues of extinguishing media as dangerous products. Dispose of them according to the indications in section 13.

## Section 6 MEASURES IN CASE OF ACCIDENTAL SPILLAGE

### 6.1. Personal precautions, protective equipment and emergency procedures:

#### 6.1.1. For non-rescuers:

Avoid contact with the eyes.  
Alert / evacuate people in the immediate area.  
Shut off the source of the spill.  
Isolate the contaminated area.  
Put on personal protective equipment (see section 8).  
Refer to section 6.3 for methods of containment and cleaning up.  
In the event of a sign of seriousness, alert the emergency services.

#### 6.1.2. For rescuers:

Responders will be equipped with personal protective equipment (see section 8).

### 6.2. Precautions for environmental protection:

Contain and collect leaks with non-combustible absorbent materials, for example : sand, soil, vermiculite, diatomaceous earth in drums for disposal of waste.  
Prevent runoff into waterways, sewers, basements or confined spaces (beyond recommended rate and use).

### 6.3. Methods and material for containment and cleaning up:

Stop the leak if it can be done without risk.  
Do not walk in or touch the spilled product.  
Empêcher tout écoulement dans les cours d'eau, égouts, sous-sols ou espaces clos (au delà de la dose et l'usage recommandés).  
Collect the liquid using an absorbent product (sand, kieselguhr, neutralizing acid, universal binder, sawdust, soil, etc.) in drums for disposal of waste.  
Use clean tools to collect the absorbed product.

### 6.4. Reference to other sections:

Refer to section 8 for PPE.  
Refer to section 4 for first aid measures.  
Refer to section 5 for fire fighting measures.  
Refer to section 13 for management of contaminated absorbents.

## Section 7 HANDLING AND STORAGE

### 7.1. Precautions for safe handling:

Handle in well-ventilated areas.  
Never open the packaging by applying pressure.  
Wear the personal protective equipment indicated in section 8.  
Do not swallow.  
Avoid contact with eyes, skin and clothing.

#### 7.1.1. Fire prevention:

Observe storage compatibility (see paragraph 7.2).

#### 7.1.2. Environmental Protection :

Avoid contamination of sewers (beyond recommended dosage and use).  
Do not discharge into sewage or waterways (beyond recommended dosage and use).

#### 7.1.3. Work hygiene instructions:

Wash hands after each use, and before eating, drinking or smoking.  
It is prohibited to smoke, eat or drink on the premises where the preparation is used.  
Do not wear soiled work clothes in areas such as offices, seminar rooms, lounge areas, company restaurants or cafeterias.  
Change work clothes frequently and wash them before reuse, especially if they have been contaminated with dangerous chemicals.  
Store work clothes separate from street clothes.

### 7.2. Pre-requisites to ensure the safety of the storage, taking into account any possible incompatibilities:

#### 7.2.1. Storage

Store hermetically closed in a dry, well-ventilated and cool place.  
Store in the original container.  
Keep away from food and drink, including those for animals.  
Keep out of reach of children.  
Respect the expiration date indicated on the packaging.  
Store away from all sources of heat and incompatible materials (see section 10).  
Controlled and limited access (keep locked). Avoid the presence of piping in the room. Control the humidity.  
The opened packaging must be carefully closed and kept in the vertical position.  
Store away from frost.

### 7.2.2. Materials recommended:

Store in the original container.

### 7.2.3. Inadvisable material:

None

### 7.3. Specific end use(s):

Refer to the label and the technical data sheet.

Do not mix different cleaners.

## Section 8 EXPOSURE CONTROL /INDIVIDUAL PROTECTION

### 8.1. Control parameters:

#### 8.1.1. Occupational exposure limit values :

Components showing threshold values to be monitor through a workstation:

The substances contained in this mixture do not have occupational exposure limit values.

### 8.2. Exposure controls:

#### 8.2.1. Appropriate technical controls:

Use clean and properly maintained personal protective equipment. Check condition before use.

Store personal protective equipment in a clean place, away from the work area.

Ensure adequate ventilation, if possible, by aspiration to workstations and extraction generally suitable.

Maintaining local and workstations in a perfect state of cleanliness, clean them frequently.

#### 8.2.2. Personal protection measures:

Personal protective equipment (PPE) must be worn in addition to the collective protection equipment put in place (section 7).

For fire-specific personal protective equipment, see section 5.

##### a) Protection of eyes and face:

Avoid contact with eyes.

Wearing glasses does not constitute protection.

##### b) Protection of hands:

None

##### c) Protection of skin:

None

##### d) Respiratory Protection:

When workers are facing concentrations above the exposure limit, they must wear appropriate and approved masks (with adapted cartridge).

#### 8.2.3. Environmental exposure controls

No available information

## Section 9 CHEMICAL AND PHYSICAL PROPRIETES

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

**Physical state:** Solid

**Aspect:** Sandy powder

**Color:** Beige

**Odour:** Odourless

**Melting point / freezing point:** Not available

**Boiling:** Not available

**Flammability:** Not determined

**Lower and upper explosion limits:** Not available

**Flash point:** Not available

**Auto-ignition temperature:** Not available

**Decomposition temperature:** Not available

**pH:** N/D

**diluted pH:** 5.9 - 6.9 (1% in water)

**Kinematic viscosity:** Not available

**Solubility:** Not available

**N-Octanol/water partition coefficient (Log Pow):** Not available

**Vapor pressure:** Not available

**Density:** 1

**Relative vapor density:** Not available

**Bulk density:** N/D

**Particle characteristics:** Not applicable

**Maximum VOC content:** 0%

**Nanoform presence:** Not concerned

### 9.2. Other information:

#### 9.2.1. Information on physical hazard classes

**Explosives:** Not applicable  
**Flammable gases:** Not applicable  
**Oxidizing gases:** Not applicable  
**Gas under pressure:** Not applicable  
**Flammable liquids:** Not applicable  
**Flammable solids:** Not applicable  
**autoreactive:** Not applicable  
**Organic peroxides:** Not applicable  
**Pyrophoric liquids:** Not applicable  
**Pyrophoric solids:** Not applicable  
**Self-heating:** Not applicable  
**Releases flammable gas in contact with water:** Not applicable  
**Oxidizing liquids:** Not applicable  
**Oxidizing solids:** Not applicable  
**Corrosive to metals:** Not applicable  
**Flammable aerosols:** Not applicable  
**Chemically unstable gases:** Not applicable  
**Desensitized explosives:** Not applicable

#### 9.2.2. Other Security Features

**Mechanical sensitivity:** Not available  
**Self-accelerating curing temperature:** Not available  
**Formation of explosive dust/air mixtures:** Not available  
**Acid/alkaline reserve:** Not available  
**Evaporation Rate:** Not available  
**Miscibility:** Not available  
**Conductivity:** Not available  
**Corrosivity:** Not available  
**Gas group:** Not available  
**Redox potential:** Not available  
**Potential for free radical formation:** Not available  
**Photocatalytic properties:** Not available

## Section 10 STABILITY AND REACTIVITY

### 10.1. Reactivity:

No hazardous reactions if used as prescribed and stored as per the recommendations of section 7.

### 10.2. Chemical stability:

Thermally stable at typical temperatures of use and storage (see section 7).  
At extreme temperatures (<5 ° C or > 35 ° C) or under significant UV exposure, the properties of the product may be impaired.

### 10.3. Possibility of hazardous reactions:

None

### 10.4. Conditions to be avoided:

Do not mix with other products.

### 10.5. Incompatible materials:

None

### 10.6. Hazardous decomposition products:

Hazardous decomposition products are not expected to form under normal storage conditions.  
Thermal decomposition products / combustion products: see section 5.

## Section 11 TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects:

#### 11.1.1. Substances:

Not concerned

#### 11.1.2. Mixtures:

The product has not been tested. The toxicological data is deduced from the properties of different constituents.

##### 11.1.2.1. Acute toxicity

Based on available data, the criteria for classification of acute toxicity are not met  
Toxicity of raw materials:

## Experimental values for acute toxicity

| IUPAC name                   | CAS number | EC number | DL50 oral (mg/Kg) | DL50 dermal (mg/Kg) | LC50 inhalation | Specie | Time (h) |
|------------------------------|------------|-----------|-------------------|---------------------|-----------------|--------|----------|
| sodium nitrate               | 7631-99-4  | 231-554-3 | 3430              | -                   | -               | Rat    | NC       |
| sodium nitrate               | 7631-99-4  | 231-554-3 | -                 | 5000                | -               | Rat    | NC       |
| ferrous sulfate heptahydrate | 7782-63-0  | 231-753-5 | 1520              | -                   | -               | Rat    | NC       |

### 11.1.2.2. Skin corrosion / skin irritation

Not classified vis-à-vis the irritation under the CLP Regulation 1278/2008.

### 11.1.2.3. Serious eye damage / eye irritation

Not classified vis-à-vis the corrosivity under the CLP Regulation 1278/2008.

### 11.1.2.4. Respiratory or skin sensitization

Not classified vis-à-vis the creation of awareness under the CLP Regulation 1278/2008.

### 11.1.2.5. Carcinogenicity

Not classified vis-à-vis the carcinogenicity under the CLP Regulation 1278/2008.

### 11.1.2.6. Germ cell mutagenicity

Not classified vis-à-vis the mutagenicity under the CLP Regulation 1278/2008.

### 11.1.2.7. Reproductive toxicity

Not classified vis-à-vis the reproductive toxicity under the CLP Regulation 1278/2008.

### 11.1.2.8. Specific toxicity for target organ only - single exposure

Not classified with regard to specific toxicity for certain target organs - single exposure within the meaning of CLP regulation 1272/2008.

### 11.1.2.9. Specific toxicity for target organ only - repeated exposure

Not classified with regard to specific toxicity for certain target organs - repeated exposure within the meaning of CLP regulation 1272/2008.

### 11.1.2.10. Aspiration hazard

Not classified as regards aspiration hazard within the meaning of CLP regulation 1272/2008.

### 11.1.2.11. Interactive effects

No significant interactive effects or critical hazards known for this mixture.

### 11.1.3. Other toxicity information

None

## 11.2. Endocrine disrupting property

No other hazard identified in the present state of our knowledge.

## Section 12 ECOLOGICAL INFORMATION

Avoid release to the environment.

### 12.1. Toxicity:

Not classified with regard to the danger for the aquatic environment within the meaning of the CLP regulation 1272/2008.

#### 12.1.1. Substances:

Ecotoxicity of raw materials contained in the formulation:

| IUPAC name     | CAS number | EC number | CL(E) 50 | Specie   | Time (h) |
|----------------|------------|-----------|----------|----------|----------|
| Sodium Nitrate | 7631-99-4  | 231-554-3 | 6650     | Fish     | 96       |
| Sodium Nitrate | 7631-99-4  | 231-554-3 | 6000     | Daphnia  | 24       |
| Sodium Nitrate | 7631-99-4  | 231-554-3 | 1001     | Bacteria | 3        |

#### 12.1.2. Mixtures:

No aquatic toxicity data is available on the mixture.

### 12.2. Persistence and degradability:

Degradability data of the raw materials contained in the formulation:

| IUPAC name                   | CAS number | EC number | Conclusion degradability                                                               |
|------------------------------|------------|-----------|----------------------------------------------------------------------------------------|
| sodium nitrate               | 7631-99-4  | 231-554-3 | No degradability data is available, the substance is considered not to degrade easily. |
| ferrous sulfate heptahydrate | 7782-63-0  | 231-753-5 | No degradability data is available, the substance is considered not to degrade easily. |

### 12.3. Bioaccumulative potential:

Bioaccumulation data of the raw materials contained in the formulation:

No bioaccumulation data is available on the substances.

No bioaccumulation data is available on the mixture.

### 12.4. Mobility in soil:

No additional data available.

### 12.5. Results of PBT and vPvB evaluations

No other hazard identified in the present state of our knowledge.

## 12.6. Endocrine disrupting properties

No other hazard identified in the present state of our knowledge.

## 12.7. Other adverse effects:

No additional data available.

## Section 13 CONSIDERATIONS RELATING TO DISPOSAL:

Appropriate waste management of the mixture and / or its container must be determined in accordance with the provisions of Directive 2008/98 / EC.

Respect your discharge convention and the ICPE (facilities classified for environmental protection) regulations.

### 13.1. Waste treatment methods:

#### 13.1.1. Waste:

Recycle or dispose in accordance with the laws in force, preferably by a collector or an approved company.  
Do not discharge the product in drains or waterways.

#### 13.1.2. Soiled Packaging:

Empty the container completely. Keep the label(s) on the container.  
Do not reuse the packaging.

#### 13.1.3. Waste codes:

07 06 01 aqueous washing liquids and mother liquors

15 01 02 plastic packaging

The following regulations have been taken into account:

- Directive 2008/98 / EC relating to waste
- Decision 2014/955 / EU listing the waste referred to in article 7 of directive 2008/98 / EC
- Regulation (EU) N ° 1357/2014 replacing Annex III of Directive 2008/98 / EC (Properties which make waste hazardous)

## Section 14 TRANSPORT INFORMATION

In accordance with the ADR requirements:

### 14.1. UN number or ID number

None

### 14.2. UN shipping name:

None

### 14.3. Hazard class(es) for transport:

Not classified

### 14.4. Packaging group:

None

### 14.5. Hazards for the environment:

None

### 14.6. Special precautions for user:

Handling precautions: refer to point 7.1.  
None

### 14.7. Maritime transport in bulk according to IMO instruments

Not applicable

## Section 15 REGULATORY INFORMATION

### 15.1. Safety, health and environmental regulations/legislation specific to the substance or mixture:

#### 15.1.1. Information relating to the classification and labelling as given in Section 2

The following regulations have been taken into consideration:

REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP), and amendments.

Safety Data Sheet according to Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

#### Regulation on explosive precursors (EU 2019/1148)

This product is managed in accordance with Regulation (EU) 2019/1148: Suspicious transactions, as well as significant disappearances and thefts, must be reported to the competent national contact point.

#### 15.1.2. Detergent composition (EC Regulation 648/2004 and 907/2006):

None

#### 15.1.3. Nomenclature of classified installations:

2630 - Manufacture of or based on detergents and soaps

#### 15.1.4. Occupational diseases according to the Labour Code (Source: INRS):

None

#### 15.1.5. Biocide statement

EN Not concerned  
Not concerned

#### 15.1.6. SVHC substances:

No other hazard identified in the present state of our knowledge.

#### 15.2. Assessment of chemical safety

No chemical safety assessment has been carried out by the supplier for the mixture.

The information from the assessment of chemical safety of the substances present in the product is included in the appropriate sections of this Safety Data Sheet, wherever necessary.

### Section 16 OTHER INFORMATION

#### 16.1. Wording of the phrases mentioned in paragraph 3:

H272 May intensify the fire; oxidant.

H319 Causes serious eye irritation.

H302 Harmful if swallowed.

H315 Causes skin irritation.

#### 16.2. Abbreviations and acronyms

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

IMDG: International Maritime Dangerous Goods.

IATA: International Air Transport Association.

ICAO: International Civil Aviation Organization.

RID: Regulations concerning the International carriage of Dangerous goods by rail.

LC50: Lethal concentration that causes 50% mortality in the population of organisms studied, for a given time, by single dose.

LD 50: Lethal dose causing 50% mortality in the population of organisms studied, for a given time, by single dose.

ETA = Estimated Acute Toxicity

AISE = International Association of Soap, Detergent and Maintenance Products

CLP = Regulation 1272/2008/EC on the classification, labelling and packaging of substances and mixtures

ELV : Exposure limit value

TWA: time weighted average at the workplace

#### 16.3. Modifications

##### Various information

The value "Composition" has been modified, New value: empty.

The value "Raw materials of concern" has been modified, New value: Making up: 7631-99-4 Explosives precursors Annex II.

The value "Identified uses" has been modified, New value: Bioprocessing Columns.

##### Modification of safety data phrases

###### Paragraph 8

"Components showing threshold values to be monitor through a workstation:"has been added

"Avoid contact with eyes."has been added

"Wearing glasses does not constitute protection."has been added

"When workers are facing concentrations above the exposure limit, they must wear appropriate and approved masks (with adapted cartridge)."has been added

"Components showing threshold values to be monitor through a workstation:"has been deleted

"Wearing glasses does not constitute protection."has been deleted

"When workers are facing concentrations above the exposure limit, they must wear appropriate and approved masks (with adapted cartridge)."has been deleted

#### 16.4. Bibliographical references:

None

This sheet complements the technical instructions for use but it does not replace them. The information that it contains is based on the actual state of our knowledge pertaining to the product concerned, on the date of update. It is provided in good faith. The attention of the users is also drawn to the risks possibly incurred when a product is used for purposes other than those for which it is intended. It does not, in any way, exempt the user from knowing and applying the texts regulating its activity. The user should take the precautions related to the use that he/she makes of the product, known to it, under his/her sole responsibility. All the mentioned regulatory requirements merely intended to help the recipient to fulfil the obligations incumbent upon him/her when using a hazardous product. This list should not be considered exhaustive. It does not exempt the user from ensuring that no other obligations are incumbent upon him/her owing to the texts other than those cited and govern the possession and use of the product, for which he/she is solely responsible. The information provided in this sheet is required under the order of 21/02/90 and must be regarded as a description of the safety requirements relating to our product and not as a guarantee of the properties of the same.

End of the document