

SECTION 1. Identification of the substance/mixture and of the company/enterprise**1.1. Product identifier**

Product name : ATOS

Product code: refer to sales department

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

Clarifying Agents

Sectors of use:

Manufacture of food products[SU4]

Product category:

Process aid for enological use

Not recommended uses

Do not use for purposes other than those listed

1.3. Details of the supplier of the safety data sheet

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SECTION 2. Hazards identification**2.1. Classification of the substance or mixture**

2.1.1 Classification according to Regulation (EC) No 1272/2008:

Pictograms:

None

Hazard Class and Category Code(s):

Non hazardous

Hazard statement Code(s):

Non hazardous

2.2. Label elements

Labelling according to Regulation (EC) No 1272/2008:

Pictogram, Signal Word Code(s):

None

Hazard statement Code(s):

Non hazardous

Supplemental Hazard statement Code(s):

EUH210 - Safety data sheet available on request.

Precautionary statements:

None in particular.

Contains:

Ingredients: activated carbon adsorbents, activated bentonite, expient.

Food use. Also suitable for oenological use. Not intended for the consumer. In accordance with current regulations on the specific matter.

2.3. Other hazards

Based on the available data, the product does not contain any PBT, vPvB, PMT, or vPvM substances as defined in Regulation (EC) No. 1907/2006, Annex XIII, et seq.

The product does not contain substances identified as endocrine disruptors for human health and the environment in accordance with the criteria established by Regulation (EC) No. 1272/2008, et seq.

This document is outside the scope of Article 31 of REACH

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

No dangerous substance to report.

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Active carbon substance for which there are Community workplace exposure limits	$\geq 50 < 100\%$			7440-44-0	231-153-3	
Perlite substance for which there are Community workplace exposure limits	$\geq 3 < 5\%$			93763-70-3		Exempt, annex V point 7

SECTION 4. First aid measures

4.1. Description of first aid measures

Inhalation:

Ventilate the area. Move immediately the contaminated patient from the area and keep him at rest in a well ventilated area. If you feel unwell seek medical advice.

Direct contact with skin (of the pure product):

Wash thoroughly with soap and running water.

Direct contact with eyes (of the pure product):

Wash immediately and thoroughly with running water for at least 10 minutes.

Ingestion:

Not dangerous. In case of malaise consult a doctor.

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

No data available.

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

No data available.

SECTION 5. Firefighting measures**5.1. Extinguishing media**

Suggested extinguishing media:

Water spray, CO₂, foam, dry chemical, depending on the materials involved in the fire.

Extinguishing media to avoid:

Water jets. Use water jets only to cool the surfaces of the containers exposed to fire.

5.2. Special hazards arising from the substance or mixture

No data available.

5.3. Advice for firefighters

Use protection for the breathing apparatus

Safety helmet and full protective clothing.

The water spray can be used to protect the people involved in the extinction.

You may also use self-contained breathing apparatus, especially when working in confined and poorly ventilated areas.

Keep containers cool with water spray

SECTION 6. Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

6.1.1 For non-emergency personnel:

Leave the area surrounding the spill or release. Do not smoke

Wear gloves and protective clothing

6.1.2 For emergency responders:

Eliminate all unguarded flames and possible sources of ignition. No smoking.

Provide a sufficient ventilation.

Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills

Inform the competent authorities.

Dispose of the waste material in compliance with the regulations

6.3. Methods and material for containment and cleaning up

6.3.1 Containment:

Recover the product for reuse, if possible, or for elimination.

6.3.2 Cleaning up:

After wiping up, wash with water the area and materials involved

6.3.3 Other information:
None in particular.

6.4. Reference to other sections

Refer to paragraphs 8 and 13 for more information

SECTION 7. Handling and storage

7.1. Precautions for safe handling

At work do not eat or drink.
See also paragraph 8 below.

7.2. Conditions for safe storage, including any incompatibilities

Keep in original container closed tightly. Do not store in open or unlabelled containers.
Keep containers upright and safe by avoiding the possibility of falls or collisions.
Store in a cool and dry place, away from heat sources and direct exposure to sunlight.

7.3. Specific end use(s)

Manufacture of food products:
Handle with care.
Store in a clean, dry, ventilated area away from heat and direct sunlight.
Keep container tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

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Related to contained substances:

Active carbon:

Germany: air limit value - alveolar fraction of activated carbon: 1.5 mg / m³ (long-term).

Germany: air limit value - breathable fraction of activated carbon: 4 mg / m³ (long-term).

USA: ACGIH TLV TWA: 10 mg/m³ 8 hours. Form: Particulates not otherwise defined.

Perlite:

Perlite: Powder (n°CAS 93763-70-3)

TLV - TWA (Threshold Limit Value - Time Weighted Average) - Eight hours (ppm)/(mg/m³)

Australia: x/10(1) Remarks: (1) This value is for inhalable dust containing no asbestos and < 1% crystalline silica.

Austria: x/5(1) Remarks:(1) inhalable aerosol inhalable aerosol

Belgium: x/10

Canada - Ontario: x/10 (1) Remarks: (1) The value us for particulate matter containingno asbestos and < 1 percent crystalline silica.

Canada - Quebec: x/10 (1)(2) Remarks: (1) Total dust (2) The standard corresponds to dust containing no asbestos and the percentage in crystalline silica is less than 1%.;

x/5 (2)(3)

Latvia: x/4 (1) Remarks: (1) And tuff, pemza

Norway: x/10 (1) Remarks:(1) Total dust; x/4 (1) Remarks:(1) Respirable fraction; x/2(1) Remarks: (1) Persulfates

People's Republic of China: x/8 (1) Remarks:(1) Inhalable fraction; x/4 (1) Remarks: (1) Respirable fraction

Singapore: x/10

South Korea: x/10

USA - NIOSH: x/10 (1) Remarks: (1) Total dust; x/5 (1) Remarks: (1) Respirable fraction

USA - OSHA: x/15 (1) Remarks: (1) Inhalable fraction; x/5 (1) Remarks: (1) Respirable fraction

TLV-STEL Threshold limit value – short-term exposure limit (ppm)/(mg/m³)

Austria: x/10(1) Remarks:(1) inhalable aerosol

Perlite: Silite, crystalline, respirable

TLV-STEL Threshold limit value – short-term exposure limit (ppm)/(mg/m³)

Australia: x/0.05

Austria: x/0.15

Belgium: x/0.10

Canada - Quebec: x/0.05

Denmark: x/0.05

European Union: x/0,1

Finland: x/0,05

Ireland: x/0.1

Israel: x/0.1

Italy: x/0.1

Japan: x/0.03(1) Remarks:(1) Occupational exposure limit ceiling: Reference value to the maximal exposure concentration of the substance during a working day

Latvia: x/0.1

New Zealand: x/0.05

Spain: x/0.05

Switzerland: x/0.15(1) Remarks:(1) respirable aerosol

The Netherlands: 0,0758 (1) Remarks: (1) Respirable fraction

USA - NIOSH: x/0.05

United Kingdom: 0,1 (1) Remarks: (1) Respirable fraction

TLV-STEL Threshold limit value – short-term exposure limit (ppm)/(mg/m³)

Denmark: x/0.1

- Substance: Active carbon

DNEL

Systemic effects Long term Workers inhalation = 3 (mg/m³)

Systemic effects Long term Consumers inhalation = 0,5 (mg/m³)

8.2. Exposure controls

Appropriate engineering controls:

Manufacture of food products:

No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

8.2.2 Individual protection measures:

(a) Eye / face protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(b) Skin protection

(i) Hand protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental

hygiene investigations

(ii) Other

Wear normal work clothing.

(c) Respiratory protection

Not needed for normal use, unless otherwise provided by the employer and / or by assessments of environmental hygiene investigations

(d) Thermal hazards

No hazard to report

Environmental exposure controls:

Use according to good working practices and avoid to disperse the product into the environment.

SECTION 9. Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical and chemical properties	Value	Determination method
Physical state	Fine powder	
Colour	black	
Odour	characteristic	
Odour threshold	not determined as it is considered not relevant for the characterization of the product	
Melting point/freezing point	not determined as it is considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as it is considered not relevant for the characterization of the product	
Flammability	not determined as it is considered not relevant for the characterization of the product	
Lower and upper explosion limit	not determined as it is considered not relevant for the characterization of the product	
Flash point	not determined as it is considered not relevant for the characterization of the product	ASTM D92
Auto-ignition temperature	not determined as it is considered not relevant for the characterization of the product	
Decomposition temperature	not determined as it is considered not relevant for the characterization of the product	
pH	not determined as considered not relevant for the characterization of the product	
Kinematic viscosity	not determined as it is considered not relevant for the characterization of the product	
Solubility	not determined as it is considered not relevant for the characterization of the product	
Water solubility	not determined as it is considered not relevant for the characterization of the product	
Partition coefficient n-octanol/water (log value)	not determined as it is considered not relevant for the characterization of the product	
Vapour pressure	not determined as it is considered not relevant for the characterization of the product	
Density and/or relative density	0.25 ± 0.05 (20 ° C)	

Physical and chemical properties	Value	Determination method
Relative vapour density	not determined as it is considered not relevant for the characterization of the product	
Particle characteristics	not determined as considered not relevant for the characterization of the product	

9.2. Other information

9.2.1 Information with regard to physical hazard classes

Irrilevant

9.2.2 Other safety characteristics

Irrilevant

SECTION 10. Stability and reactivity

10.1. Reactivity

No reactivity hazards

10.2. Chemical stability

No hazardous reaction when handled and stored according to provisions.

10.3. Possibility of hazardous reactions

There are no hazardous reactions

10.4. Conditions to avoid

Nothing to report

10.5. Incompatible materials

Avoid contact with strong oxidizing agents.

10.6. Hazardous decomposition products

Does not decompose when used for intended uses.

SECTION 11. Toxicological information**11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008**

ATE(mix) oral = Not classified (no relevant component)

ATE(mix) dermal = Not classified (no relevant component)

ATE(mix) inhal = Not classified (no relevant component)

- (a) acute toxicity: based on available data the classification criteria are not met
- (b) skin corrosion/dermal irritation: based on available data the classification criteria are not met
- (c) severe eye damage/eye irritation: based on available data the classification criteria are not met
- (d) respiratory or skin sensitisation: based on available data the classification criteria are not met
- (e) germ cell mutagenicity: based on available data the classification criteria are not met
- (f) carcinogenicity: based on available data the classification criteria are not met.
- (g) reproductive toxicity: based on available data, the classification criteria are not met.
- (h) specific target organ toxicity (STOT) single exposure: based on available data, the classification criteria are not met.
- (i) specific target organ toxicity (STOT) repeated exposure: based on available data, the classification criteria are not met.
- (j) Aspiration hazard: based on available data, the classification criteria are not met.

Related to contained substances:

(a) acute toxicity:

Active carbon: Ingestion - LD50 rat (mg / kg / 24h bw): > 2000

Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): not

available Inhalation - LD50 rat (mg / l / 4h): 8.5 (dust and mists)

Perlite: Non toxic

(b) skin corrosion/irritation:

Active carbon: Non-

Perlite: Not corrosive

Active carbon: Non-irritating

Perlite: Not irritating

(c) serious eye damage/irritation:

Active carbon: Non-corrosive

Perlite: Not corrosive

Active carbon: Non-irritating

Perlite: Not irritating

(d) respiratory or skin sensitisation:

Active carbon: Non-sensitizing

Perlite: There is no classification of respiratory or skin sensitivity.

(e) germ cell mutagenicity:

Active carbon: Non-mutagenic

Perlite: Based on available data, the classification criteria are not met.

(f) carcinogenicity:

Active carbon: Non-carcinogenic

Perlite: Based on available data, the classification criteria are not met.

(g) reproductive toxicity:

Active carbon: Non-toxic for reproduction

Perlite: Based on available data, the classification criteria are not met.

(h) specific target organ toxicity (STOT) single exposure:

Active carbon: Unavailable

Perlite: Based on available data, the classification criteria are not met.

(i) specific target organ toxicity (STOT) repeated exposure

Active carbon: Not available

Perlite: Based on available data, the classification criteria are not met.

(j) aspiration hazard:

Active carbon: Not
available

Perlite: Based on available data, the classification criteria are not met.

11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

The product does not contain substances identified as endocrine disruptors for human health according to the criteria established by Regulation (EC) No. 1272/2008, as amended by Regulation (EU) 2023/707.

The product does not contain substances identified as endocrine disruptors for the environment according to the criteria established by Regulation (EC) No. 1272/2008, as amended by Regulation (EU) 2023/707.

SECTION 12. Ecological information

12.1. Toxicity

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Related to contained substances:

Active carbon:

Acute toxicity-fish LC50 (mg/l/96h): n.a.

Acute toxicity-crustacea EC50 (mg/l/48 h): n.a.

Acute algae toxicity ErC50 (mg/l/72-96h): n.a.

Perlite:

Not ecotoxic.

Acute toxicity M-factor = 1

Chronic toxicity M-factor = 1

Use according to good working practices and avoid to disperse the product into the environment.

12.2. Persistence and degradability

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Related to contained substances:

Active carbon:

Not available

Perlite:

Not relevant for inorganic substance.

12.3. Bioaccumulative potential

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Related to contained substances:

Active carbon:

Not available

Perlite:

Not relevant for inorganic substance.

12.4. Mobility in soil

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Related to contained substances:

Active carbon:

Not available

Perlite:

Not significant.

12.5. Results of PBT and vPvB assessment

The product does not contain substances identified as PBT according to the criteria established by Regulation (EC) No. 1272/2008, as amended by Regulation (EU) 2023/707.

The product does not contain substances identified as vPvB according to the criteria established by Regulation (EC) No. 1272/2008, as amended by Regulation (EU) 2023/707.

12.6. Endocrine disrupting properties

The product does not contain substances identified as endocrine disruptors for human health according to the criteria established by Regulation (EC) No. 1272/2008, as amended by Regulation (EU) 2023/707.

The product does not contain substances identified as endocrine disruptors for the environment according to the criteria established by Regulation (EC) No. 1272/2008, as amended by Regulation (EU) 2023/707.

12.7. Other adverse effects

No adverse effects

SECTION 13. Disposal considerations**13.1. Waste treatment methods**

Do not reuse empty containers. Dispose of them in accordance with the regulations in force. Any remaining product should be disposed of according to applicable regulations by addressing to authorized companies.
Recover if possible. Operate according to local or national regulations

SECTION 14. Transport information**14.1. UN number or ID number**

Not included in the field of application of regulations concerning the transport of dangerous goods: by road (ADR); by rail (RID); by air (ICAO / IATA); by sea (IMDG).

14.2. UN proper shipping nameNone

14.3. Transport hazard class(es)

None

14.4. Packing group

None

14.5. Environmental hazards

None

14.6. Special precautions for user

No data available.

14.7. Maritime transport in bulk according to IMO instruments

Transport in bulk is not foreseen

SECTION 15. Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

Restrictions relating to the product or the substances contained (Annex XVII EC Reg. 1907/2006): not applicable
Substances in Candidate list (art. 59 EC Reg. 1907/2006): the product does not contain SVHC in a percentage ≥ 0.1 %.

Regulation (EU) 1169/2011: see point 2.2

Regulation (EU) 1308/2013; see point 2.2

Regulation (EC) 1333/2008; see point 2.2

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information**16.1. Other information**

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

No hazard to report. Classification procedure: Calculation method

Main normative references:

Reg. (CE) n. 1907 del 18/12/06 REACH (Registration, Evaluation and Authorisation of CHemicals) et seq.

Reg. (CE) 1272/2008 CLP (Classification Labelling and Packaging) et seq.
Directive 2012/18/EU (on the control of major-accident hazards involving dangerous substances) et seq.

Training required: This document must be submitted to the employer to determine the possible need for appropriate training for workers to ensure protection of human health and the environment.

n.a.: not applicable

n.d.: not available

ADR: Accord européen relative au transport International des marchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

ATE: Acute Toxicity Estimate

BFC: Bioconcentration Factor

BOD: Biochemical Oxygen Demand

CAS: Chemical Abstract Service number

CAP: Centre AntiPoison

CE/EC number EINECS (European Inventory of existing Commercial Substances) e ELINCS (European List of notified Chemical Substances)

CL50/LC50: Lethal Concentration 50

DL50/LD50: Lethal Dose 50

COD: Chemical Oxygen Demand

DNEL: Derived No Effect Level

EC50: half maximal Effective Concentration

ERC: Environment Release Classes

EU/UE: European Union

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods code

Kow: Octanol water partition coefficient

NOEC: No Observed Effect Concentration

OEL: Occupational Exposure Limit

PBT: Persistent Bioaccumulative and Toxic

PC: Product Categories

PMT: Persistent, mobile, toxic

PNEC: Predicted No Effect Concentration

PROC: Process Categories

RID: Règlement concernant le transport International ferroviaire des marchandises dangereuses (Regulations concerning International rail transport of dangerous goods)

STOT: Target Organ Systemic Toxicity

STOT (RE): Repeated Exposure

STOT (SE): Single Exposure

STP: Sewage Treatment Plants

SU: Sector of Use

SVCH: Substance of Very High Concern

TLV: Threshold Limit Value

vPvB: Very Persistent Very Bioaccumulative

vPvM: Very persistent, very mobile

References and Sources:

- ECHA Registered Substances:

<https://chem.echa.europa.eu/>

- SDS raw material supplier

- GESTIS International Limit Value: <http://limitvalue.ifa.dguv.de>

This msds was made in good faith by technical Office on the basis of the information available at the date of the last revision. The person in charge must regularly inform the employees about the specific risks they encounter when using this substance/product. The information contained here relate only to the substance/the preparation indicated and may not apply if the product is used improperly or in combination with others. Nothing contained herein shall be construed as



SAFETY DATA SHEET

ATOS

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In conformity to Regulation (EU) 2020/878

a guarantee, either express or implied. It is the responsibility of the user to ensure the opportunities and completeness of the information contained herein for their own particular use.

*** this tab annuls and replaces any previous edition.

Changes to the previous edition: first issue in English
