

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

1.1. Product identifier

Product name : ANTIBOTRYTIS 2014

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

AEB SpA - Via Vittorio Arici 104 S.Polo - 25134 Brescia (BS) Italy

Tel. +39.030.2307.1 Fax +39.030.2307281

E-mail: info@aeb-group.com - Internet: www.aeb-group.com

E-mail tecnico competente/technical dept.: sds@aeb-group.com

AEB USA

111 N Cluff Avenue

Lodi CA 95240 (USA)

Tel: +1 2096258139 Fax: +1 2092248953

Email: info@aebusa.com - Internet: www.aeb-group.com

AEB AFRICA (PTY) LTD

18 Track Crescent, Cor. Station Road

Montague Gardens 7441

Cape Town (South Africa)

Tel.: +27 215512700 - Fax: +27 (0) 215511919

Email: info@aeb.co.za - Internet: www.aeb-group.com

AEB OCEANIA PTY LTD

178A Wakaden Street

Griffith NSW 2680

T: 1300 704 971

Email: aeboceania@aeb-group.com - Internet: www.aeb-group.com

Produced by

AEB SpA

Via Vittorio Arici 104 S. Polo

25134 Brescia

1.4. Emergency telephone number

AEB SpA

Centralino/Switchboard: +39.030.2307.1 - (h 8.30-12.00 13.30-18.00 GMT +1; Lingua/Language: Italiano, English)

AEB USA

Switchboard: +1 2096258139 (GMT -8; Language: English)

AEB AFRICA (PTY) LTD

Switchboard: +27 215512700 (GMT +1; Language: English, Afrikaans)

AEB OCEANIA PTY LTD

Switchboard: +61 1300 704 971 (GMT +9; Language: English)

SECTION 2. Hazards identification

2.1. Classification of the substance or mixture

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

Pictograms:
GHS05

Hazard Class and Category Code(s):
Eye Dam. 1

Hazard statement Code(s):
H318 - Causes serious eye damage.

If brought into contact with eyes, the product causes serious damages to eyes, such as an opaque cornea or injury to iris.

2.1.2 Additional information:

For full text of Hazard- and EU Hazard-statements: see SECTION 16.

2.2. Label elements

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

Pictogram, Signal Word Code(s):
GHS05 - Danger

Hazard statement Code(s):
H318 - Causes serious eye damage.

Supplemental Hazard statement Code(s):
EUH031 - Contact with acids liberates toxic gas (SO₂)

Precautionary statements:
Prevention
P280 - Wear eye/face protection.



Response

P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 - Immediately call a POISON CENTER or a doctor.

Contains:

potassium metabisulfite

Ingredients: mix of gallotannins, L-Ascorbic Acid 10%, potassium metabisulfite(a) 9,86% (10 g/hL bring about 5,7 mg/L of SO₂), excipients.

Food use, oenological use. Not intended for the final consumer. In accordance with current regulations on the specific matter. Only for industrial use.

(a) = sulfites (<Sulphur dioxide and sulphites at concentrations of more than 10 mg/kg or 10 mg/litre expressed as SO₂>in compliance with Regulation (EU) No 1169/2011 - Annex II and subsequent additions and modifications)

2.3. Other hazards

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

The use of this chemical agent implies the obligation of the "risk assessment" by the employer according to the provisions of Legislative Decree April 9, 2008 no. 81 and subsequent amendments. If the results of the risk assessment demonstrate that, in relation to the type, quantity, methods and frequency of exposure, there is only a low risk for the safety and irrelevant for the health of the workers and that the measures referred to in paragraph 1 of Legislative Decree April 9, 2008 no. 81 are sufficient to reduce the risk, the provisions of articles 225, 226, 229, 230 of the same Legislative Decree do not apply

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
Perlite substance for which there are Community workplace exposure limits	>= 50 < 100%			93763-70-3		Exempt, annex V point 7
Potassium metabisulfite	>= 5 < 10%	EUH031; Skin Irrit. 2, H315; Eye Dam. 1, H318		16731-55-8	240-795-3	exempt, art 2 par. 5
Cellulose substance for which there are Community workplace exposure	>= 5 < 10%			9004-34-6	232-674-9	Exempt, polymer

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACH
limits						

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, keeping eyelids open for at least 10 minutes, then protect your eyes with a dry sterile gauze. Seek medical advice immediately

Do not use eye drops or ointments of any kind before the examination or advice from an oculist.

Ingestion:

Not dangerous. In case of malaise consult a doctor.

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

In case of contact with eyes it may cause redness, tearing, serious lesions.

Prolonged contact with the skin in delicate subjects may cause skin irritation.

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

If you feel unwell, contact a doctor or go to the emergency room, if possible, with this document.

Symptomatic treatment

UFI code on the packaging

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 mask, 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:

Rapidly recover the product, wear a mask and protective clothing (for specifications refer to section 8.2. SDS)
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

Wear eye/face protection.
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 and ventilated place, away from heat sources and direct sunlight. Store in the original container, tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

=====

Related to contained substances:

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

Issued on 09/24/2024 - Rel. # 7 on 09/24/2024

7 / 16

In conformity to Regulation (EU) 2020/878

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

Potassium metabisulfite:

Sulphur dioxide (7446-09-5) EU

8h*TWA= 1.3 mg/m³ - 0.5 ppm

Short term**= 2.7 mg/m³ - 1 ppm

* Measured or calculated in relation to a reference period of eight hours, as a time weighted average

** Short-term exposure level. Limit value above which exposure should not occur and which refers to a 15-minute period unless otherwise stated.

ACGIH - STEL: 0.25 ppm - Notes: (SO₂)

Cellulose:

Limit value - Eight hours

(ppm)/(mg/m³)

Australia: x/10(1)

Belgio: x/10

Canada – Ontario: x/10

Canada - Québec: x/10

France: x/10 inhalable aerosol

Ireland: x/10(1); x/4(2)

Latvia: x/2

New Zealand: x/10(1)

People's Republic of China: x/10

Singapore: x/10

South Korea: x/10

Spain: x/10 inhalable aerosol

Switzerland: x/3 respirable aerosol

USA - NIOSH: x/10(1); x/5(2)

USA - OSHA: x/15 total dust; 5 respirable dust

United Kingdom: : x/10 inhalable aerosol; 4 respirable aerosol

Limit value - Short term

(ppm)/(mg/m³)

Ireland: x/20 (1)(3)

United Kingdom: x/20 inhalable aerosol

Remarks:

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

Ireland: (1) Inhalable fraction (2) Respirable fraction (3) 15 minutes reference period

New Zealand: (1) The value for inhalable dust containing no asbestos and less than 1% free silica.

USA – NIOSH: (1) Total dust (2) Respirable aer

- Substance: Potassium metabisulfite

DNEL

Systemic effects Long term Workers inhalation = 263 (mg/m³)

Systemic effects Long term Consumers inhalation = 78 (mg/m³)

Systemic effects Long term Consumers oral = 10 (mg/kg bw/day)

PNEC

Sweet water = 1,17 (mg/l)

Sea water = 0,12 (mg/l)

STP = 88,1 (mg/l)

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

When handling the pure product use safety glasses (EN 166).

(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	beige	
Odour	not determined as it is considered not relevant for the characterization of the product	
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	

Physical and chemical properties	Value	Determination method
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	3.0 ± 0.5 (20 ° C; sol. 5%)	
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	disposable	
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	0.17 - 0.7 (20°C)	
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

Humidity

10.5. Incompatible materials

Oxidants

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

a) acute toxicity :based on the available data, the classification criteria are not met.

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

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

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

(b) skin corrosion/irritation: based on the available data, the classification criteria are not met.

(c) serious eye damage/irritation: If brought into contact with the eyes, the product causes serious eye injuries,

(d) respiratory or skin sensitisation: based on the available data, the classification criteria are not met.

(e) germ cell mutagenicity: based on the 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

About components:

a) acute toxicity:

Perlite: Non toxic

Potassium metabisulfite: Based on available data, the classification criteria are not met

Ingestion - LD50 rat (mg/kg/24h bw): >1540 - OECD 401; Skin contact - LC50 rat / rabbit (mg/kg/24h bw): >2000 The product has not been tested. The declaration was derived from substances/products of similar structure or composition. - OECD 402

Inhalation - LD50 rat (mg/l/4h): >5.5 The product has not been tested. The declaration was derived from substances/products of similar structure or composition. - OECD 403

Cellulose: Ingestion-rat LD50 (mg/kg/bw 24h): >5000; Skin contact-LC50 rat/coniglio (mg/kg/bw 24h): >2000;

Inhalation-rat LD50 (mg/l/4h): >5800

(b) skin corrosion/irritation:

Perlite: Not corrosive

Potassium metabisulfite: Based on available data, the classification criteria are not met.
Corrosive to skin: Negative - In vitro - OECD 435
Cellulose: Non-corrosive
Perlite: Not irritating
Potassium metabisulfite: The product is classified: Skin Irrit. 2 , Skin Irritant rabbit: Positive - OECD 404 Skin Irritant: Positive - In vitro - OECD 439
Cellulose: Non-irritating

(c) serious eye damage/irritation:
Perlite: Not corrosive
Potassium metabisulfite: The product is classified: Eye Dam. 1 , Corrosive to eyes rabbit: Positive - OECD 405
Cellulose: Non-corrosive
Perlite: Not irritating
Potassium metabisulfite: The product is classified: Eye Dam. 1 , Corrosive to eyes rabbit: Positive - OECD 405
Cellulose: Non-irritating

(d) respiratory or skin sensitisation:
Perlite: There is no classification of respiratory or skin sensitivity.
Potassium metabisulfite: Based on available data, the classification criteria are not met.
Skin sensitisation: Negative - OECD 429
Cellulose: Non-Sensitizing

(e) germ cell mutagenicity:
Perlite: Based on available data, the classification criteria are not met.
Potassium metabisulfite: Based on available data, the classification criteria are not met.
Cellulose: Not available

(f) carcinogenicity:
Perlite: Based on available data, the classification criteria are not met.
Potassium metabisulfite: Based on available data, the classification criteria are not met.
Cellulose: Not available

(g) Reproductive toxicity:
Perlite: Based on available data, the classification criteria are not met.
Potassium metabisulfite: Based on available data, the classification criteria are not met.
Cellulose: Not available

h) specific target organ toxicity (STOT) single exposure:
Perlite: Based on available data, the classification criteria are not met.
Potassium metabisulfite: Based on available data, the classification criteria are not met.
Cellulose: Not available

(i) specific target organ toxicity (STOT) repeated exposure
Perlite: Based on available data, the classification criteria are not met.
Potassium metabisulfite: Based on available data, the classification criteria are not met.
Cellulose: Not available

j) aspiration hazard:
Perlite: Based on available data, the classification criteria are not met.
Potassium metabisulfite: Based on available data, the classification criteria are not met.
Cellulose: Not available

11.2. Information on other hazards

No data available.

11.2.1. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with

Regulation (EU) 2017/2100

SECTION 12. Ecological information

12.1. Toxicity

=====

Related to contained substances:

Perlite:

Not ecotoxic

Acute toxicity M-factor = 1

Chronic toxicity M-factor = 1

Potassium metabisulfite:

Acute toxicity - fish LC50 (mg/l/96h): 149.5 - *O. mykiss*

Acute toxicity - crustaceans EC50 (mg/l/48h): 74.9 - *Daphnia cladocera* *Daphnia magna* Acute toxicity algae ErC50 (mg/l/72-96h): 36.8 - *Algae Scenedesmus subspicatus*

Chronic toxicity - fish NOEC (mg/l): 50 - *Danio rerio*

Chronic toxicity - crustaceans NOEC (mg/l): 8.41 - *Daphnia cladocera* *Daphnia magna* Chronic toxicity algae NOEC (mg/l): 28 - *Scenedesmus subspicatus*

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

=====

Related to contained substances:

Perlite:

Not relevant for inorganic substance

Potassium metabisulfite:

The substance is an inorganic compound, and therefore cannot be subject to biodegradation

Cellulose:

Not persistent

12.3. Bioaccumulative potential

=====

Related to contained substances:

Perlite:

Not relevant for inorganic substance

Potassium metabisulfite:

No bioaccumulation is expected

Cellulose:

There is no evidence of bioaccumulation potential.

12.4. Mobility in soil

=====

Related to contained substances:

Perlite:

Not significant

Potassium metabisulfite:

No adsorption into the solid phase of the soil is expected.

Cellulose:

Not available

12.5. Results of PBT and vPvB assessment

Based on the available data, no PBT or vPvB substances are present in accordance with Regulation (EC) 1907/2006, annex XIII

12.6. Endocrine disrupting properties

Based on available data, there are no substances that interfere with the Endocrine System in accordance with Regulation (EU) 2017/2100

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 name

None

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 percentage = a 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

Regulation (EU) No 1357/2014 - Waste: HP4 - Irritant - Skin irritation and eye damage
Seveso Class III (Dir. 2012/18/EU): n.a.

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

SECTION 16. Other information

16.1. Other information

Points modified compared to previous release: 3.2 Mixtures 4.3. Indication of any immediate medical attention and special treatment needed, 7.3. Specific end use(s), 8.1. Control parameters 11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008, 11.2. Information on other hazards, 12.1. Toxicity, 12.2. Persistence and degradability, 12.3. Bioaccumulative potential, 12.4. Mobility in soil, 12.5. Results of PBT and vPvB assessment, 12.6. Endocrine disrupting properties, 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Description of hazard statements set out in paragraph 3

H315 = Causes skin irritation.

H318 = Causes serious eye damage.

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

[CLP]:

H318 - Causes serious eye damage. 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 Estimati

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: Enviroment 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

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

References and Sources:

- ECHA Registered Substances:

<https://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

- 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 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. (IIXX)

Changes to the previous edition: updating data and classifying raw materials
