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

1.1. Product identifier

Product name : AROMAX B4
Product code: refer to sales department

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

Specific Treatment
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: cellulose 50%, perlite, L-Ascorbic acid 10%, potassium metabisulfite(a) 9,86% (100 g/hL bring about 56,8 mg/L of SO2).
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
Cellulose substance for which there are Community workplace exposure limits	>= 50 < 100%			9004-34-6	232-674-9	Exempt, polymer
Perlite substance for which there are Community workplace exposure limits	>= 25 < 50%			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

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh

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.
Privide 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 and direct sunlight.
Store in the original container, tightly closed.

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

==========
Related to contained substances:
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
Irelend: 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)

Irelend: x/20 (1)(3)
United Kingdom: x/20 inhalable aerosol

Remarks:
Australia: (1) This value is for inhalable dust containing no asbestos an <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

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

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)

- 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	White	
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	

Physical and chemical properties	Value	Determination method
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	não determinado por ser considerado irrelevante para a caracterização do produto	
Kinematic viscosity	not determined as it is considered not relevant for the characterization of the product	
Solubility	in water	
Water solubility	miscible in all proportions	
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	0,12 ± 0,05 (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

Acids, oxidants

10.6. Hazardous decomposition products

sulfur dioxide

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) skincorrosion/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) respiratoryorskinsensitisation: 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) eproductivetoxicity: 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:
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
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

(b) skincorrosion/irritation:
Cellulose: Non-corrosive
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-irritating
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

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

(d) respiratoryorskinsensitisation:
Cellulose: Non-Sensitizing
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

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

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

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

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

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

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

Potassium metabisulfite: 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

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 cladoceran 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 cladoceran 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:
Cellulose:
Not persistent

Perlite:
Not relevant for inorganic substance

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

12.3. Bioaccumulative potential

==========
Related to contained substances:
Cellulose:
There is no evidence of bioaccumulation potential.

Perlite:
Not relevant for inorganic substance

Potassium metabisulfite:
No bioaccumulation is expected

12.4. Mobility in soil

==========
Related to contained substances:
Cellulose:
Not available

Perlite:
Not significant

Potassium metabisulfite:
No adsorption into the solid phase of the soil is expected.

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 europèen relative au transport International des merchandises dangereuses par route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
ATE: Acute Toxicity Estimat
BFC: BioconCentration Factor
BOD: Biochemical Oxigen 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 concernent le transport International ferroviaire des merchandises 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