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

1.1. Product identifier

Product name : SINTOLUBE
Product code: refer to sales department

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

Lubricant
Sectors of use:
Industrial Manufacturing[SU3], Manufacture of food products[SU4]
Product category:
Lubricants, Greases and Release Products
Process categories:
Industrial spraying[PROC7], Transfer of substance or mixture (charging and discharging) at dedicated facilities[PROC8B]

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
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Lodi CA 95240 (USA)
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Produced by
AEB SpA
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25134 Brescia

1.4. Emergency telephone number

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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:
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):
EUH208 - Contains preservatives: Benzisothiazolinone. May produce an allergic reaction.
Contain Octylisothiazolinone; reaction mass of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May produce an allergic reaction.
EUH210 - Safety data sheet available on request.

Precautionary statements:
None in particular.

Contains (Reg.EC 648/2004):

< 5% non-ionic surfactants
Preservatives: Bronopol, Octylisothiazolinone, massa di reazione di 5-cloro-2- metil-2H-isotiazol-3-one e 2-metil-2H-isotiazol-3-one (3:1), Benzisothiazolinone.

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

Do not ingest. Keep out of reach of children.

SECTION 3. Composition/information on ingredients

3.1 Substances

Irrilevant

3.2 Mixtures

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
Alcohols, C12-14, ethoxylated	>= 0,1 < 1%	Eye Irrit. 2, H319; Aquatic Acute 1, H400; Aquatic Chronic 3, H412 Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1		68439-50-9		Polymer
Benzisothiazolinone	>= 0,0036 < 0,036%	Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1A, H317; Eye Dam. 1, H318; Acute Tox. 2, H330; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Limits: Skin Sens. 1, H317 %C >=0,036; Acute toxicity M-factor = 1 Chronic toxicity M-factor = 1 ATE oral = 450 mg/kg ATE inhal = 0,210 mg/l/4 h (dust-mist)	613-088-00-6	2634-33-5	220-120-9	01-2120761540-60-XXXX
Octylisothiazolinone	>= 0,0015 < 0,015%	EUH071; Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Corr. 1, H314; Skin Sens. 1A, H317; Eye Dam. 1,	613-112-00-5	26530-20-1	247-761-7	

Substance	Concentration[w/w]	Classification	Index	CAS	EINECS	REACh
		H318; Acute Tox. 2, H330; Aquatic Acute 1, H400; Aquatic Chronic 1, H410 Limits: Skin Sens. 1A, H317 %C >=0,0015; Acute toxicity M-factor = 100 Chronic toxicity M-factor = 100 ATE oral = 125 mg/kg ATE dermal = 311 mg/kg ATE inhal = 0,270 mg/l/4 h (dust-mist)				

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 thorougly 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

Skin contact may cause skin rash.

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

In case of discomfort after contact with the product, go to the emergency room with this document. Symptomatic treatment

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.
Privide a sufficient ventilation.
Evacuate the danger area and, in case, consult an expert.

6.2. Environmental precautions

Contain spills with earth or sand.
If the product has entered a watercourse, sewers or has contaminated soil or vegetation, notify the 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 removal. Possibly absorb it with inert materia or sucked it.
Prevent it from entering the sewer system.

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

Avoid contact and inhalation of vapors
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)

Industrial Manufacturing:
Handle with caution. Store in a well-ventilated area away from heat sources (7-30°C) in the original, closed packaging.

Manufacture of food products:
Handle with care. Store in a clean, dry, and ventilated area, away from heat and direct sunlight. Store in the original, closed container (7-30°C).

SECTION 8. Exposure controls/personal protection

8.1. Control parameters

- Substance: Benzisothiazolinone
DNEL
Systemic effects Long term Workers inhalation = 6,81 (mg/m3)
Systemic effects Long term Workers dermal = 0,966 (mg/kg bw/day)
Systemic effects Long term Consumers inhalation = 1,2 (mg/m3)
Systemic effects Long term Consumers dermal = 0,345 (mg/kg bw/day)
PNEC
Sweet water = 0,00403 (mg/l)
sediment Sweet water = 0,0499 (mg/kg/sediment)
Sea water = 0,000403 (mg/l)
sediment Sea water = 0,00499 (mg/kg/sediment)
STP = 1,03 (mg/l)
ground = 3 (mg/kg ground)

8.2. Exposure controls

Appropriate engineering controls:
Industrial Manufacturing:
No specific monitoring foreseen (act according to good practice and specific rules for the type of risk associated)

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.

(b) Skin protection
(i) Hand protection
Not needed for normal use.
In the case of individuals who are already sensitised to the substance or mixture in the product use chemical resistant protective gloves (EN 374-1/EN374-2/EN374-3) unless otherwise provided by the employer and / or assessments of environmental investigations hygienistic

(ii) Other
During working operation wear protective clothing (generic workwear / antacid, safety shoes or other protective equipment) according to the instructions of the employer

(c) Respiratory protection
None required if airborne concentrations are maintained below the exposure limit listed in Exposure Limit Information. Use certified respiratory protection equipment meeting EU requirements (89/656/EEC, 245/2016 UE), or equivalent, when respiratory risks cannot be avoided or sufficiently limited by technical means of collective protection or by measures, methods or procedures of work organization..

(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	Liquid	
Colour	white	
Odour	odorless	
Odour threshold	not determined as considered not relevant for the characterization of the product	
Melting point/freezing point	not determined as considered not relevant for the characterization of the product	
Boiling point or initial boiling point and boiling range	not determined as considered not relevant for the characterization of the product	
Flammability	not determined as considered not relevant for the characterization of the product	
Lower and upper explosion limit	not determined as considered not relevant for the characterization of the product	
Flash point	not determined as considered not relevant for the characterization of the product	
Auto-ignition temperature	not determined as considered not relevant for the characterization of the product	
Decomposition temperature	not determined as considered not relevant for the characterization of the product	
pH	3,5 ± 0,5 (20°C; sol. 100%); 7,0 ± 0,5 (20°C; sol. 0,6%)	
Kinematic viscosity	not determined as considered not relevant for the characterization of the product	
Solubility	Miscible in water at the concentrations of use	
Water solubility	miscible	
Partition coefficient n-octanol/water (log value)	not determined as considered not relevant for the characterization of the product	
Vapour pressure	not determined as considered not relevant for the characterization of the product	
Density and/or relative density	1,00 ± 0,05 (20°C)	
Relative vapour density	not determined as considered not relevant for the characterization of the product	

Physical and chemical properties	Value	Determination method
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

No information available

10.6. Hazardous decomposition products

It does not decompose when used for its 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 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 available data, the classification criteria are not met
(c) serious eye damage/irritation: based on available data, the classification criteria are not met
(d) respiratoryorskinsensitisation: based on available data, the classification criteria are not me, however may cause an allergic skin reaction.
(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

concerning substances

(a) acute toxicity:
Alcohols, C12-14, ethoxylated:
Ingestion - LD50 rat (mg / kg / 24h bw): >2000
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): nd
Inhalation - LD50 rat (mg / l / 4h): nd
Benzisothiazolinone:
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw):> 2000
LD50 (rat) Oral (mg/kg body weight) = 450
CL50 Inhalation (rat) dust/mist (mg/l/4h) (ppmV/4h) = 0,21
Octylisothiazolinone:
Ingestion - LD50 rat (mg / kg / 24h bw): 125
Skin contact - LC50 rat / rabbit (mg / kg / 24h bw): 311
Inhalation - LD50 rat (mg / l / 4h): 0.27 (dusts / mists)

(b) skincorrosion/irritation:
Alcohols, C12-14, ethoxylated: Non-corrosive
Benzisothiazolinone: Corrosive
Octylisothiazolinone: Corrosive
Alcohols, C12-14, ethoxylated: Non-irritating
Benzisothiazolinone: Irritating
Octylisothiazolinone: Irritating

(c) serious eye damage/irritation:
Alcohols, C12-14, ethoxylated: Non-corrosive
Benzisothiazolinone: Corrosive
Octylisothiazolinone: Corrosive
Alcohols, C12-14, ethoxylated: Irritating
Benzisothiazolinone: Irritating
Octylisothiazolinone: Irritating

(d) respiratoryorskinsensitisation:
Alcohols, C12-14, ethoxylated: Non-sensitizing
Benzisothiazolinone: Sensitizing
Octylisothiazolinone: Sensitizing

(e) germ cell mutagenicity:
Alcohols, C12-14, ethoxylated: Not available
Benzisothiazolinone: Non-mutagenic
Octylisothiazolinone: Not available

(f) carcinogenicity:
Alcohols, C12-14, ethoxylated: Not available
Benzisothiazolinone: Not available
Octylisothiazolinone: Not available

(g) Reproductivetoxicity:
Alcohols, C12-14, ethoxylated: Not available
Benzisothiazolinone: Not available
Octylisothiazolinone: Not available

(h) specific target organ toxicity (STOT) single exposure:
Alcohols, C12-14, ethoxylated: Not available
Benzisothiazolinone: Not available
Octylisothiazolinone: Harmful if swallowed. Toxic by contact with the skin.

(i) specific target organ toxicity (STOT) repeated exposure
Alcohols, C12-14, ethoxylated: Not available
Benzisothiazolinone: Not available
Octylisothiazolinone: Not available

(j) aspiration hazard:
Alcohols, C12-14, ethoxylated: Not available
Benzisothiazolinone: Not available
Octylisothiazolinone: 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:
Alcohols, C12-14, ethoxylated:
Acute toxicity - fish LC50 (mg / l / 96h): <= 1
Acute toxicity - crustaceans EC50 (mg / l / 48h): <= 1
Acute toxicity algae ErC50 (mg / l / 72-96h): nd
Chronic toxicity - fish NOEC (mg / l): nd
Chronic toxicity - crustaceans NOEC (mg / l): nd
Chronic toxicity algae NOEC (mg / l): nd
Acute toxicity M-factor = 1
Chronic toxicity M-factor = 1

Benzisothiazolinone:
Acute toxicity - fish LC50 (mg/l/96h): 2.18 Oncorhynchus mykiss - Method: OECD Test Guideline 203
Acute toxicity - crustaceans EC50 (mg/l/48h): 2.94 Daphnia magna - Test method, Directive 92/69/EEC.
Acute toxicity to algae ErC50 (mg/l/72-96h):0.11 Selenastrum capricornutum - Test type: Growth inhibitory
Chronic toxicity to fish NOEC (mg/l 28 days): 0.21 Oncorhynchus mykiss - Test type: Growth inhibitory
Chronic toxicity to crustaceans NOEC (mg/l/21d): 0.91 Daphnia magna - Test type: Reproduction test - Method: OECD

Test Guideline 211
Chronic toxicity to algae NOEC (mg/l): 0.026 Pseudokirchneriella subcapitata
Toxicity to soil living organisms EC50 (mg/kg/14d): > 410.6 Eisenia fetida Method: OECD Test Guideline 207 Toxicity to soil living organisms EC50 (mg/kg/28d): 263.7 Method: OECD TG 216
Acute toxicity M-factor = 1
Chronic toxicity M-factor = 1

Octylisothiazolinone:
Acute toxicity - fish LC50 (mg / l / 96h): nd
Acute toxicity - crustaceans EC50 (mg / l / 48h): nd
Acute algae toxicity ErC50 (mg / l / 72-96h): nd
Chronic toxicity - NOEC fish (mg / l): nd
Chronic toxicity - crustaceans NOEC (mg / l): nd
Chronic toxicity NOEC algae (mg / l): nd
Acute toxicity M-factor = 100
Chronic toxicity M-factor = 100

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

12.2. Persistence and degradability

==========
Related to contained substances:
Alcohols, C12-14, ethoxylated:
Readily biodegradable (> 60%) OECD 301

Benzisothiazolinone:
Not rapidly biodegradable

Octylisothiazolinone:
Not available

12.3. Bioaccumulative potential

==========
Related to contained substances:
Alcohols, C12-14, ethoxylated:
Unavailable

Benzisothiazolinone:
log KOW is 0.70 at pH 7

Octylisothiazolinone:
Not available

12.4. Mobility in soil

==========
Related to contained substances:
Alcohols, C12-14, ethoxylated:
Unavailable

Benzisothiazolinone:
Not available

Octylisothiazolinone:
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

Regulation (EC) No 2006/907 - 2004/648
The (l) surfactant (s) content (s) in this preparation complies (comply) with (i) the biodegradability criteria as laid down in Regulation CE/648/2004 on detergents. All data are held at the disposal of the competent authorities of Member States and will be provided, at their direct request or at the request of a detergent manufacturer, to those authorities.

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 (EC) 648/04: see point 2.2
Regulation (EU) 528/2012: see point 2.2

Seveso III class (Dir EU 2012/18): n.a.

15.2. Chemical safety assessment

No chemical safety assessment was carried out by the supplier

Chemical safety assessment was carried out by the supplier for:
Benzisothiazolinone

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, 8.2. Exposure controls 10.1. Reactivity, 10.4. Conditions to avoid, 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, 15.2. Chemical safety assessment

Description of hazard statements set out in paragraph 3
H319 = Causes serious eye irritation.
H400 = Very toxic to aquatic life.
H412 = Harmful to aquatic life with long lasting effects.
H302 = Harmful if swallowed.
H315 = Causes skin irritation.
H317 = May cause an allergic skin reaction.
H318 = Causes serious eye damage.
H330 = Fatal if inhaled.
H410 = Very toxic to aquatic life with long lasting effects.
H301 = Toxic if swallowed.
H311 = Toxic in contact with skin.
H314 = Causes severe skin burns and eye damage.

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 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: raw materials data update