

**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1 Product identifier**

- Trade name TIXOSIL® 68B
- Chemical name Silicon dioxide

**1.2 Relevant identified uses of the substance or mixture and uses advised against****Uses of the Substance / Mixture**

- Industrial Manufacturing (all)

**1.3 Details of the supplier of the safety data sheet****Company**

Essential Chemicals USA,  
LLC 251 Little Falls Drive Wilmington,  
Delaware 19808

**1.4 Emergency telephone**

FOR EMERGENCIES INVOLVING A SPILL, LEAK, FIRE, EXPOSURE OR ACCIDENT, CONTACT CHEMTREC (24-Hour Number): +1-800-424-9300 within the United States and Canada, or +1-703-527-3887 for international collect calls.

**SECTION 2: Hazards identification**

Although OSHA has not adopted the environmental portion of the GHS regulations, this document may include information on environmental effects.

**2.1 Classification of the substance or mixture****HCS 2012 (29 CFR 1910.1200)**

- Not a hazardous product according to the OSHA Globally Harmonized System (GHS).

**2.2 Label elements****HCS 2012 (29 CFR 1910.1200)**

- Not a hazardous product according to the OSHA Globally Harmonized System (GHS).

**2.3 Other hazards which do not result in classification**

- Mild respiratory irritant
- By mechanical effect
- Slightly irritating to eyes and skin.
- NO particular fire or explosion hazard.
- Electrostatic charges may build up by swirling, pneumatic transport, pouring etc.

**SECTION 3: Composition/information on ingredients****3.1 Substance**

- Chemical name Silicon dioxide

**Hazardous Ingredients and Impurities**

Chemical name	Identification number CAS-No.	Concentration [%]
Precipitated Amorphous Silica	112926-00-8	>= 97 - <= 100

Alternative CAS for US compliance purposes: Sulfuric acid sodium salt (1:2), CAS No. 7631-86-9

**3.2 Mixture**

- Not applicable, this product is a substance.

**SECTION 4: First aid measures****4.1 Description of first-aid measures****In case of inhalation**

- Move to fresh air.
- Keep at rest.
- If symptoms persist, call a physician.

**In case of skin contact**

- If on skin, rinse well with water.
- If skin irritation persists, call a physician.

**In case of eye contact**

- Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
- If eye irritation persists, consult a physician.

**In case of ingestion**

- Rinse mouth with water.
- If symptoms persist, call a physician.

**4.2 Most important symptoms and effects, both acute and delayed****Effects**

- Skin contact may aggravate existing skin disease
- Inhalation of product may aggravate existing chronic respiratory problems such as asthma, emphysema or bronchitis

**4.3 Indication of any immediate medical attention and special treatment needed****Notes to physician**

- All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.
- Treat symptomatically.
- There is no specific antidote available.

**SECTION 5: Firefighting measures**

<b><u>Flash point</u></b>	Not applicable (nonflammable solid)
<b><u>Autoignition temperature</u></b>	not auto-flammable
<b><u>Flammability / Explosive limit</u></b>	Lower flammability/explosion limit : Not applicable Upper flammability/explosion limit : Not applicable

#### 5.1 Extinguishing media

##### **Suitable extinguishing media**

- All extinguishing agents can be used.
- Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

##### **Unsuitable extinguishing media**

- None known.

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

##### **Specific hazards during fire fighting**

- Not combustible.
- Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.

##### **Hazardous combustion products:**

- No hazardous combustion products are known

#### 5.3 Advice for firefighters

##### **Special protective equipment for fire-fighters**

- Firefighters should wear NIOSH/MSHA approved self-contained breathing apparatus and full protective clothing.
- Wear full protective clothing and self-contained breathing apparatus.
- Personal protective equipment comprising: suitable protective gloves, safety goggles and protective clothing

##### **Specific fire fighting methods**

- Use appropriate means for fighting adjacent fires.

### **SECTION 6: Accidental release measures**

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

- Avoid contact with eyes.
- Safety glasses
- Personal protective equipment
- Respiratory protection

#### 6.2 Environmental precautions

- No harmful effect to the environment is known or expected under normal conditions of use.

#### 6.3 Methods and materials for containment and cleaning up

##### ***Recovery***

- Sweep up and shovel into suitable containers for disposal.

##### ***Decontamination / cleaning***

- Wash off with plenty of water.
- Recover the cleaning water for subsequent disposal.

**Disposal**

- Treat recovered material as described in the section "Disposal considerations".

**Additional advice**

- Avoid dust formation.

**6.4 Reference to other sections**

- 7. HANDLING AND STORAGE
- 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
- 13. DISPOSAL CONSIDERATIONS

**SECTION 7: Handling and storage****7.1 Precautions for safe handling**

- Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations.
- Ensure all equipment is electrically grounded before beginning transfer operations.
- Avoid dust formation.

**Hygiene measures**

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
  - 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
  - 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
  - 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

**Dust explosion class**

- St0

**7.2 Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

- Do not stack big-bags.
- Protect from moisture.
- Store away from heat.

**Packaging material****Suitable material**

- Polypropylene bags
- Paper bags

**7.3 Specific end use(s)**

- no data available

**SECTION 8: Exposure controls/personal protection**

Introductory Remarks: These recommendations provide general guidance for handling this product. Because specific work environments and material handling practices vary, safety procedures should be developed for each intended application. Assistance with selection, use and maintenance of worker protection equipment is generally available from equipment manufacturers.

**8.1 Control parameters****Components with workplace occupational exposure limits**

Components	Value type	Value	Basis
Precipitated Amorphous Silica			Occupational Safety and Health Administration - Table Z-1 Limits for Air Contaminants
Precipitated Amorphous Silica	TWA	20 Million particles per cubic foot	Occupational Safety and Health Administration - Table Z-3 Mineral Dusts
		Form of exposure : Dust Expressed as :Silica	
Precipitated Amorphous Silica	TWA	80 mg/m3 / %SiO <sub>2</sub>	Occupational Safety and Health Administration - Table Z-3 Mineral Dusts
		Form of exposure : Dust Expressed as :Silica	
Precipitated Amorphous Silica	TWA	6 mg/m3	National Institute for Occupational Safety and Health
		Expressed as :Silica	
Precipitated Amorphous Silica	TWA	4 mg/m3	Solvay Acceptable Exposure Limit

**8.2 Exposure controls****Control measures****Engineering measures**

- Where engineering controls are indicated by use conditions or a potential for excessive exposure exists, the following traditional exposure control techniques may be used to effectively minimize employee exposures :
- Local exhaust
- Dust must be extracted directly at the point of origin.

**Individual protection measures****Respiratory protection**

- When respirators are required, select NIOSH/MSHA approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industrial recommendations.
- Under normal conditions, in the absence of other airborne contaminants, the following devices should provide protection from this material up to the conditions specified by the appropriate local standard(s):
- Respirator with a dust filter

**Hand protection**

- For prolonged or repeated contact use protective gloves.

**Eye protection**

- Eye and face protection requirements will vary dependent upon work environment conditions and material handling practices. Appropriate ANSI Z87 approved equipment should be selected for the particular use intended for this

- material.
- Eye contact should be prevented through the use of:
- Safety glasses

**Skin and body protection**

- Long sleeved clothing

**Hygiene measures**

- Personal hygiene is an important work practice exposure control measure and the following general measures should be taken when working with or handling this materials:
- 1) Do not store, use, and/or consume foods, beverages, tobacco products, or cosmetics in areas where this material is stored.
- 2) Wash hands and face carefully before eating, drinking, using tobacco, applying cosmetics, or using the toilet.
- 3) Wash exposed skin promptly to remove accidental splashes or contact with material.

**Protective measures**

- The protective equipment must be selected in accordance with current local standards and in cooperation with the supplier of the protective equipment.
- Selection of appropriate personal protective equipment should be based on an evaluation of the performance characteristics of the protective equipment relative to the task(s) to be performed, conditions present, duration of use, and the potential hazards, and/or risks that may occur during use.

**SECTION 9: Physical and chemical properties**

Physical and Chemical properties here represent typical properties of this product. Contact the business area using the Product information phone number in Section 1 for its exact specifications.

**9.1 Information on basic physical and chemical properties**

<b><u>Physical state</u></b>	solid
<b><u>Form</u></b>	Milled powder
<b><u>Color</u></b>	white
<b><u>Odor</u></b>	None.
<b><u>Odor Threshold</u></b>	Not applicable
<b><u>Melting point/freezing point</u></b>	<u>Melting point/range:</u> > 3,092 °F (> 1,700 °C)
<b><u>Initial boiling point and boiling range</u></b>	Not applicable
<b><u>Flammability (solid, gas)</u></b>	Not applicable
<b><u>Flammability (liquids)</u></b>	No data available
<b><u>Flammability / Explosive limit</u></b>	<u>Lower flammability/explosion limit:</u> Not applicable
	<u>Upper flammability/explosion limit:</u> Not applicable
<b><u>Flash point</u></b>	Not applicable (nonflammable solid)

<b><u>Autoignition temperature</u></b>	No data available
<b><u>Decomposition temperature</u></b>	Not applicable
<b><u>pH</u></b>	5.0 - 9.0 ( 5 % (m / m)) (aqueous suspension)
<b><u>Viscosity</u></b>	<u>Viscosity, dynamic</u> : Not applicable <u>Viscosity, kinematic</u> : Not applicable
<b><u>Solubility</u></b>	<u>Water solubility</u> : 120 - 160 mg/l ( 68 °F (20 °C))
<b><u>Partition coefficient: n-octanol/water</u></b>	Not applicable
<b><u>Vapor pressure</u></b>	Not applicable
<b><u>Density</u></b>	2.1 g/cm <sup>3</sup> Intrinsic  <u>Bulk density</u> : 100 - 250 kg/m <sup>3</sup> Packaged Product
<b><u>Relative density</u></b>	No data available
<b><u>Relative vapor density</u></b>	Not applicable
<b><u>Particle characteristics</u></b>	No data available
<b><u>Evaporation rate (Butylacetate = 1)</u></b>	Not applicable

**9.2 Other information**

<b><u>Oxidizing properties</u></b>	Not considered as oxidizing.
<b><u>Self-ignition</u></b>	not auto-flammable
<b><u>Impact sensitivity</u></b>	Not applicable
<b><u>Dust deflagration index (Kst)</u></b>	Method: Particle size < 63µm
<b><u>Dust explosion constant</u></b>	St0
<b><u>Oxidation / Reduction Potential</u></b>	Not applicable
<b><u>Sublimation point</u></b>	Not applicable
<b><u>Molecular weight</u></b>	60.2 g/mol
<b><u>Hygroscopicity</u></b>	hygroscopic

**SECTION 10: Stability and reactivity****10.1 Reactivity**

- No hazards to be specially mentioned.

**10.2 Chemical stability**

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- Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

- No dangerous reaction known under conditions of normal use.

#### spontaneous polymerization

- Hazardous polymerization does not occur.

### 10.4 Conditions to avoid

- None known.

### 10.5 Incompatible materials

- Chlorine trifluoride
- Fluorine
- Hydrogen fluoride
- Oxygen Difluoride
- Strong oxidizing agents

### 10.6 Hazardous decomposition products

- No hazardous decomposition products are known.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

LD50 : > 5,000 mg/kg - Rat  
Unpublished reports

##### Acute inhalation toxicity

Precipitated Amorphous Silica

LC50 - 4 h ( aerosol ) : > 5.01 mg/l - Rat , male and female  
Method: OECD Test Guideline 436  
Not classified as hazardous for acute inhalation toxicity according to GHS.  
No mortality observed at this concentration.  
No effect observed at this dose or concentration  
Unpublished reports

LC50 - 4 h ( dust/mist ) : > 2.08 mg/l - Rat , male and female  
Method: OECD Test Guideline 403  
Not classified as hazardous for acute inhalation toxicity according to GHS.  
Risk of physical blockage of the upper respiratory tract  
An LC50/inhalation/4h/rat could not be determined because no mortality of rats was observed at the maximum achievable concentration.

##### Acute dermal toxicity

LD50 > 5,000 mg/kg - Rabbit  
Unpublished reports

##### Acute toxicity (other routes of administration)

No data available

#### Skin corrosion/irritation

Prolonged or repeated contact may dry skin and cause irritation.

#### Serious eye damage/eye irritation

Dust contact with the eyes can lead to mechanical irritation.

**Respiratory or skin sensitization**

Humans  
no cutaneous sensitization reaction observed  
Unpublished reports

**Mutagenicity****Genotoxicity in vitro**

In vitro tests did not show mutagenic effects  
Unpublished reports

**Genotoxicity in vivo**

In vivo tests did not show mutagenic effects  
Unpublished reports

**Carcinogenicity**

Rat  
Oral exposure  
Animal testing did not show any carcinogenic effects.  
Unpublished reports

Mouse  
Oral exposure  
Animal testing did not show any carcinogenic effects.  
Unpublished reports

This product does not contain any ingredient designated as probable or suspected human carcinogens by:

NTP  
IARC  
OSHA

**Toxicity for reproduction and development****Toxicity to reproduction / fertility**

Fertility and developmental toxicity tests did not reveal any effect on reproduction., Unpublished reports

**Developmental Toxicity/Teratogenicity**

Precipitated Amorphous Silica

Pre-natal - Rat, male and female, Oral  
General Toxicity Maternal NOAEL: 1,000 mg/kg bw/day  
Teratogenicity NOAEL F1:1,000mg/kg bw/day  
Method: OECD Test Guideline 414  
Gavage, no teratogenic effects have been observed, Unpublished reports

**STOT****STOT-single exposure**

The substance or mixture is not classified as specific target organ toxicant, single exposure according to GHS criteria.

**STOT-repeated exposure**

The substance or mixture is not classified as specific target organ toxicant, repeated exposure according to GHS criteria.

If inhaled No irreversible effect or symptom of silicosis were observed during the inhalation toxicity tests.  
Unpublished reports

Oral exposure No irreversible effects were observed during chronic oral toxicity tests.  
Unpublished reports

**Neurological effects**

No neurotoxic effects observed.

**Experience with human exposure****Experience with human exposure : Inhalation**

Mild respiratory irritant  
Unpublished reports

**Aspiration toxicity**

Not applicable

**SECTION 12: Ecological information****12.1 Toxicity****Aquatic Compartment****Acute toxicity to fish**

LC50 - 96 h : > 10,000 mg/l - Danio rerio (zebra fish)  
Unpublished reports

**Acute toxicity to daphnia and other aquatic invertebrates**

EC50 - 24 h : > 1,000 mg/l - Daphnia magna (Water flea)  
Unpublished reports

**Toxicity to aquatic plants**

Precipitated Amorphous Silica

EL50 - 72 h : > 100 mg/l - Desmodesmus subspicatus (green algae)  
static test  
Endpoint: Growth rate  
Method: OECD Test Guideline 201  
No quantifiable LC/LL50 or EC/EL50 at the limit of solubility  
Result expressed in nominal loading rate (product tested as a saturated solution or as a WAF/WSF)  
Unpublished reports

NOELR - 72 h : > 100 mg/l - Desmodesmus subspicatus (green algae)  
static test  
Endpoint: Growth rate  
Method: OECD Test Guideline 201  
No quantifiable EC/EL10 or NOEC/NOELR at the limit of solubility  
Result expressed in nominal loading rate (product tested as a saturated solution or as a WAF/WSF)  
Unpublished reports

**Toxicity to microorganisms**

Precipitated Amorphous Silica

- 3 h : - activated sludge  
static test  
Endpoint: Respiration inhibition

EC50 : > 1,000 mg/l

NOEC : 1,000 mg/l

Analytical monitoring: no  
Method: OECD Test Guideline 209  
Unpublished reports

**Chronic toxicity to fish**

No data available

**Chronic toxicity to daphnia and other aquatic invertebrates**

Precipitated Amorphous Silica

NOEC: 149.2 mg/l - 21 d - Daphnia magna (Water flea)  
semi-static test

Analytical monitoring: yes  
 Endpoint: Reproduction  
 Method: OECD Test Guideline 211  
 No quantifiable EC/EL10 or NOEC/NOELR at the limit of solubility  
 Unpublished reports

## 12.2 Persistence and degradability

### Abiotic degradation

#### Photodegradation

Precipitated Amorphous Silica

Photodegradation  
 The product is chemically stable.  
 Not expected

### Physical- and photo-chemical elimination

No data available

### Biodegradation

#### Biodegradability

Inert mineral product. Not degradable.

## 12.3 Bioaccumulative potential

**Partition coefficient: n-octanol/water** No data available

**Bioconcentration factor (BCF)** Not bioaccumulable.  
 Published data

## 12.4 Mobility in soil

**Adsorption potential (Koc)** No data available

**Known distribution to environmental compartments** Ultimate destination of the product: Soil  
 Ultimate destination of the product: Sediment

## 12.5 Results of PBT and vPvB assessment

Precipitated Amorphous Silica Not applicable, inorganic substance

## 12.6 Other adverse effects

### Ecotoxicity assessment

**Short-term (acute) aquatic hazard** The product does not have any known adverse effects on the aquatic organisms tested

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### Product Disposal

- Chemical additions, processing or otherwise altering this material may make the waste management information presented in this SDS incomplete, inaccurate or otherwise inappropriate. Please be advised that state and local requirements for waste disposal may be more restrictive or otherwise different from federal laws and regulations. Consult state and local regulations regarding the proper disposal of this material.
- Dispose of contents/ container to an approved waste disposal plant.

- Dispose of in accordance with local regulations.

**Prohibition**

- Should not be released into the environment.

**Advice on cleaning and disposal of packaging**

- Dispose of in accordance with local regulations.

**SECTION 14: Transport information****49 CFR**

not regulated

**TDG**

not regulated

**NOM**

not regulated

**IMDG**

not regulated

**IATA**

not regulated

Note: The above regulatory prescriptions are those valid on the date of publication of this sheet. Given the possible evolution of transportation regulations for hazardous materials, it would be advisable to check their validity with your sales office.

**SECTION 15: Regulatory information****15.1 Notification status**

Inventory Information	Status
United States TSCA Inventory	- All substances listed as active on the TSCA inventory
Canadian Domestic Substances List (DSL)	- Listed on Inventory
Australian Inventory of Industrial Chemicals (AIIC)	- Listed on Inventory
Japan. CSCL - Inventory of Existing and New Chemical Substances	- Listed on Inventory
Korea. Korean Existing Chemicals Inventory (KECI)	- Listed on Inventory
China. Inventory of Existing Chemical Substances in China (IECSC)	- Listed on Inventory
Philippines Inventory of Chemicals and Chemical Substances (PICCS)	- Listed on Inventory
Taiwan Chemical Substance Inventory (TCSI)	- Listed on Inventory
New Zealand. Inventory of Chemical Substances	- All components are listed on the NZIoC inventory. Additional HSNO obligations may apply. Please refer to Section 15 of SDS for New Zealand.

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Mexico INSQ (INSQ)	- Listed on Inventory
EU. European Registration, Evaluation, Authorization and Restriction of Chemical (REACH)	- When purchased from a Solvay legal entity based in the EEA ("European Economic Area"), this product is compliant with the registration provisions of the REACH Regulation (EC) No. 1907/2006 as all its components are either excluded, exempt, and/or registered. When purchased from a legal entity outside of the EEA, please contact your local representative for additional information.
Korea. Act on Registration and Evaluation of Chemicals	- When purchased from a Solvay legal entity based in Korea, this product is compliant with "Act on Registration and Evaluation of Chemicals" (AREC or K-REACH, Article 10) as all its components are either excluded, exempt, and/or (pre)registered. When purchased from a legal entity outside of Korea, please contact your local representative for additional information.

**Additional Information**

- For USA Inventory (TSCA) purposes, This product is identified as: Silica (CAS-No. : 7631-86-9)

**15.2 Federal Regulations****US. EPA EPCRA SARA Title III****SARA HAZARD DESIGNATION SECTIONS 311/312 (40 CFR 370)**

No SARA Hazards

**Section 313 Toxic Chemicals (40 CFR 372.65)**

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**Section 302 Emergency Planning Extremely Hazardous Substance Threshold Planning Quantity (40 CFR 355)**

This material does not contain any components with a section 302 EHS TPQ.

**Section 302 Emergency Planning Extremely Hazardous Substance Reportable Quantity (40 CFR 355)**

This material does not contain any components with a SARA 302 RQ.

**Section 304 Emergency Release Notification Reportable Quantity (40 CFR 355)**

This material does not contain any components with a section 304 EHS RQ.

**US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**

This material does not contain any components with a CERCLA RQ.

**15.3 State Regulations****US. California Safe Drinking Water & Toxic Enforcement Act (Proposition 65)**

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

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**SECTION 16: Other information****NFPA (National Fire Protection Association) - Classification**

Health	1 slight
Flammability	1 slight
Instability or Reactivity	0 minimal

**HMIS (Hazardous Materials Identification System (Paint & Coating)) - Classification**

Health	1 slight
Flammability	1 slight
Reactivity	0 minimal
PPE	Determined by User; dependent on local conditions

**Further information**

- Distribute new edition to clients

**Date Prepared:** 07/05/2023

**Key or legend to abbreviations and acronyms used in the safety data sheet**

- PEL: Permissible exposure limit
- TWA: 8-hour time weighted average
- SAEL: Solvay Acceptable Exposure Limit
- ACGIH: American Conference of Governmental Industrial Hygienists
- OSHA: Occupational Safety and Health Administration
- NTP: National Toxicology Program
- IARC: International Agency for Research on Cancer
- NIOSH: National Institute for Occupational Safety and Health
- ADR: European Agreement on International Carriage of Dangerous Goods by Road.
- ADN: European Agreement on the International Carriage of Dangerous Goods by Inland Waterways.
- RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
- IATA: International Air Transport Association.
- ICAO-TI: Technical Specification for Safe Transport of Dangerous Goods by Air.
- IMDG: International Maritime Dangerous Goods.
- TWA: Time weighted average
- ATE: Estimated value of acute toxicity
- EC: European Community number
- CAS: Chemical Abstracts Service.
- LD50: Substance that causes 50% (half) death in the test animals group (Median Fatal Dose).
- LC50: Substance concentration causing 50% (half) death in the test animals group.
- EC50: Effective Concentration of the substance causing the maximum of 50%.
- PBT: Persistent, Bioaccumulative and Toxic substance.
- vPvB: Very Persistent and Very Bioaccumulative.
- SEA: Classification, labeling, packaging regulation
- DNEL: Derived No Effect Level
- PNEC: Predicted No Effect Concentration
- STOT: Specific Target Organ Toxicity

**Not all acronyms listed above are referenced in this SDS.**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information, and belief at the date of its publication. Such information is only given as a guidance to help the user handle, use, process, store, transport, dispose, and release the product in satisfactory safety conditions and is not to be considered as a warranty or quality specification. It should be used in conjunction with technical sheets but do not replace them. Thus, the information only relates to the designated specific product and may not be applicable if such product is used in combination with other materials or in any other manufacturing process, unless otherwise specifically indicated. It does not release the user from ensuring he is in conformity with all regulations linked to its activity.