

ETHYL SILICATE ZINC HS B COMPONENT

Safety Data Sheet

According to ABNT NBR 14725: 2023

Issue date: 11/28/2023 Revision date: 2/19/2026 Version: 8.0



SECTION 1: Identification

1.1. GHS Product identifier

Product form : Mixture
Trade name : ETHYL SILICATE ZINC HS B COMPONENT
Product code : 15440749
Type of product : Catalyst
Product group : Trade product

1.2. Other means of identification

No additional information available

1.3. Recommended use of the chemical and restrictions on use

Recommended use : Uses in coatings - Curing agent for component A.

1.4. Supplier's details

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Guaramirim - Santa Catarina / Brasil

Rodovia BR 280 – Km 50, 6.918 – Bloco A. Caixa D'Água – 89270-000 - +55 (47) 3276-4000

Mauá - São Paulo / Brasil

Rua Dr. Ulysses Guimarães, nº 918 – Bloco A. Loteamento Industrial Coral 09372-050 – Fone: +55 (11) 4547-6100

Cabo de Santo Agostinho - Pernambuco / Brasil

Via VII, 314 Distrito Industrial DIPER – 54590-000 - Fone: +55 (81) 3512-3000

Betim - Minas Gerais / Brasil

Avenida Juiz Marco Tulio Isaac, 2994 Betim Industrial – 32671-198, Fone: +55 (31) 3268-0687 / +55 (31) 3268-0686

Macaé - Rio de Janeiro / Brasil

Rua Itacolomi, 528 – Quadra H – Lote 11 Cabiúnas – 27977-340

Atotonilco de Tula - Estado de Hidalgo / México

Av. Hidalgo, lote 40, 41, 42 y 43 - Parque Industrial Bicentenario, CP 42980 - Fone: +52 (55) 5321-4231

Buenos Aires - Provincia de Buenos Aires / Argentina

Av. José Melián, 2983 - Parque Industrial Burzaco, B1852 - Fone: +54 (11) 4299-8000

1.5. Emergency phone number

Emergency number :

24-HOUR EMERGENCY - AMBIPAR		0800 117 2020	
CHEMTREC international number		+1-703-527-3887 e 1-800-424-9300	
Country	City	Local Number	Toll-Free Number
Austria	Vienna	+43-1-3649237	
Austria			0800 293702
China		400 120 4937	
France		+33-975181407	
Germany			0800-181-7059

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ETHYL SILICATE ZINC HS B COMPONENT

15440749

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 2/19/2026

India	Bangalore	+91 8071 279 207	
India			000 800 1007 141
Italy	Milan	+39-02 4555 7031	
Italy			800 789 767
Netherlands		+31-85 888 0596	
South Africa			080-001-4676
United Kingdom	London	+44 20 3807 3798	
South korea			080-880-0454
Japan			0800-300-5842

SECTION 2: Hazard identification

2.1. Classification of the substance or mixture

Classification according to GHS BR (ABNT NBR 14725: 2023)

Pyrophoric Solids, Category 1

Substances and Mixtures which, in contact with water, emit flammable gases, Category 1

Hazardous to the aquatic environment - Acute Hazard, Category 1

Hazardous to the aquatic environment - Chronic Hazard, Category 1

2.2. GHS Label elements, including precautionary statements

GHS BR labelling

Hazard pictograms (GHS BR)



Signal word (GHS BR)

: Danger

Hazard statements (GHS BR)

: H250 - Catches fire spontaneously if exposed to air
H260 - In contact with water releases flammable gases which may ignite spontaneously
H410 - Very toxic to aquatic life with long lasting effects
: P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.
No smoking.
P222 - Do not allow contact with air.
P223 - Do not allow contact with water.
P231+P232 - Handle and store contents under inert gas. Protect from moisture.
P233 - Keep container tightly closed.
P273 - Avoid release to the environment.
P280 - Wear protective gloves, protective clothing, eye protection, face protection and hearing protection.
P302+P335+P334 - IF ON SKIN: Brush off loose particles from skin. Immerse in cool water or wrap in wet bandages.
P370+P378 - In case of fire: Use appropriate media to extinguish.
P391 - Collect spillage.
P402+P404 - Store in a dry place. Store in a closed container.
P501 - Dispose of contents and/or container to hazardous or special waste collection point, in accordance with local, regional, national and international regulations.

2.3. Other hazards which do not result in classification

No additional information available

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ETHYL SILICATE ZINC HS B COMPONENT

15440749

Safety Data Sheet

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Revision date: 2/19/2026

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	GHS Product identifier	Conc. (% w/w)	Classification according to GHS BR (ABNT NBR 14725: 2023)
ZINC DUST, STABILIZED	CAS-No.: 7440-66-6	100	Pyr. Sol. 1, H250 Water-react. 1, H260 Aquatic Acute 1, H400 Aquatic Chronic 1, H410

SECTION 4: First-aid measures

4.1. Description of necessary first-aid measures

First-aid measures general	: If you feel unwell, seek medical advice.
First-aid measures after inhalation	: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
First-aid measures after ingestion	: Do NOT induce vomiting.

4.2. Most important symptoms and effects, acute and delayed

Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: Risk of serious damage to eyes.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.

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

Notes to physician	: Treat symptomatically
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SECTION 5: Fire-fighting measures

5.1. Suitable extinguishing media

Suitable extinguishing media	: earth, sand, dry chemical powder or foam. Dry chemical, soda ash, lime or sand. Dry chemical, CO2, dry sand, or alcohol-resistant foam.
Unsuitable extinguishing media	: Do not use water. Water. Carbon dioxide (CO2). Foam.

5.2. Specific hazards arising from the chemical

Fire hazard	: In case of fire and/or explosion do not breathe fumes. Catches fire spontaneously if exposed to air. In contact with water releases flammable gases which may ignite spontaneously. Attacks many metals forming flammable/explosive gas (HYDROGEN!). In case of fire, use sand - Never use water.
Explosion hazard	: Heating may cause an explosion.
Reactivity in case of fire	: Exothermic reaction with water. Spontaneously flammable (pyrophoric) solid.

5.3. Special protective actions for fire-fighters

Precautionary measures fire	: Do not allow contact with air. Do not allow contact with water.
Firefighting instructions	: Fight fire from safe distance and protected location. In case of major fire and large

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ETHYL SILICATE ZINC HS B COMPONENT

15440749

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 2/19/2026

Protection during firefighting

- quantities: Evacuate area. Fight fire remotely due to the risk of explosion. Do not enter fire area without proper protective equipment, including respiratory protection.
- : Do not enter fire area without proper protective equipment, including respiratory protection. Self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures

- : Do not allow contact with air. Eliminate every possible source of ignition. Do not allow contact with water. May be harmful to aquatic organisms, to flora, to soil organisms. Clean up any spills as soon as possible, using an absorbent material to collect it. Stop leak if safe to do so. Notify authorities if product enters sewers or public waters.

6.1.1. For non-emergency personnel

Protective equipment

- : Wear recommended personal protective equipment.

Emergency procedures

- : Evacuate area. Only qualified personnel equipped with suitable protective equipment may intervene. Notify fire brigade and environmental authorities.

6.1.2. For emergency responders

Protective equipment

- : Use self-contained breathing apparatus and chemically protective clothing. Gloves. Wear security glasses which protect from splashes. Gloves. Equip cleanup crew with proper protection.

Emergency procedures

- : Cover spill with non combustible material, e.g.: sand/earth. Evacuate unnecessary personnel. Stop leak if safe to do so.

6.2. Environmental precautions

Prevent from entering sewers, basements and workpits, or any place where its accumulation can be dangerous. Do not allow contact with water. Very toxic to aquatic life with long lasting effects. Do not allow product to spread into the environment.

6.3. Methods and materials for containment and cleaning up

For containment

- : Cover spill with non combustible material, e.g.: sand, earth, vermiculite. Stop leak without risks if possible. Using a clean shovel, put the material in a dry container and cover without compressing it.

Methods for cleaning up

- : Absorb remaining liquid with sand or inert absorbent and remove to safe place. Clean up immediately by sweeping or vacuum. Take up mechanically (sweeping, shovelling) and collect in suitable container for disposal.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed

- : Catches fire spontaneously if exposed to air. DANGER : May be explosive if shocked, heated under confinement or mixed with water.

Precautions for safe handling

- : Do not allow contact with air. Handle and open container with care. Wear personal protective equipment. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Wear fire/flame resistant/retardant clothing. Do not allow contact with water. Handle and open container with care. Handle under inert gas. Protect from moisture. Ensure good ventilation of the work station. Keep only in original container. Do not handle until all safety precautions have been read and understood.

Hygiene measures

- : Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

- : Keep only in original container. Keep cool. Protect from sunlight. Store away from other materials. Store in a dry place. Store in a closed container. Store in a well-ventilated place. Keep cool.

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ETHYL SILICATE ZINC HS B COMPONENT

15440749

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 2/19/2026

Packaging materials : Always store product in container of same material as original container.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No additional information available

8.2. Appropriate engineering controls

Appropriate engineering controls : Ensure good ventilation of the work station.

8.3. Individual protection measures

Personal protective equipment:

Wear recommended personal protective equipment.

Hand protection:

Protective gloves

Eye protection:

Wear security glasses which protect from splashes

Skin and body protection:

Wear suitable protective clothing

Respiratory protection:

Where exposure through inhalation may occur from use, respiratory protection equipment is recommended

Personal protective equipment symbol(s):



SECTION 9: Physical and chemical properties

9.1. Basic physical and chemical properties

Physical state	: Solid
Appearance	: Liquid.
Colour	: Colourless
Odour	: characteristic
Odour threshold	: Not available
pH	: Not applicable
Melting point	: Not available
Freezing point	: 419 °C
Boiling point	: 907 °C
Flash point	: 30 °C
Relative evaporation rate (butylacetate=1)	: Not available
Flammability	: Not available
Explosive limits	: Not available

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ETHYL SILICATE ZINC HS B COMPONENT

15440749

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 2/19/2026

Vapour pressure	: 1 mm Hg 487°C
Relative vapour density at 20°C	: Not applicable
Relative density	: Not available
Density	: 6.9 – 7.11 g/cm³
Solubility	: Material insoluble in water. Water: Insoluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not available
Auto-ignition temperature	: 540 °C resting powder
Decomposition temperature	: Not available
Viscosity, kinematic	: Not applicable
Viscosity, dynamic	: Not applicable
Particle size	: Not available
Particle size distribution	: Not available
Particle shape	: Not available
Particle aspect ratio	: Not available
Particle specific surface area	: Not available

ZINC DUST, STABILIZED 7440-66-6

Boiling point	907 °C Source: ECHA
Auto-ignition temperature	460 °C Source: ICSC
Vapour pressure	0 Pa at 400 Source: ECHA

9.2. Data relevant with regard to physical hazard classes

No additional information available

9.3. Further safety characteristics

No additional information available

SECTION 10: Stability and reactivity

Chemical stability	: May ignite spontaneously in contact with air. Spontaneously flammable in presence of damp air.
Conditions to avoid	: Avoid shock and friction. Do not allow contact with air. Do not allow water (or moist air) contact with this material.
Hazardous decomposition products	: May liberate toxic gases. Attacks many metals forming flammable/explosive gas (HYDROGEN!).
Incompatible materials	: Materiais plásticos solúveis em Xileno. Não armazenar com materiais explosivos, gases inflamáveis e/ou tóxicos, substâncias oxidantes, corrosivas e materiais que possam. Combustible materials. Incompatible with water, humid air. Aqueous solution.
Possibility of hazardous reactions	: Catches fire spontaneously if exposed to air. In contact with water releases flammable gases which may ignite spontaneously.
Reactivity	: Could react violently or explosively on contact with water.
Handling temperature	: No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not available
Acute toxicity (dermal)	: Not available
Acute toxicity (inhalation)	: Not available

ZINC DUST, STABILIZED (7440-66-6)

LD50 oral rat	> 2000 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 401 (Acute Oral
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ETHYL SILICATE ZINC HS B COMPONENT

15440749

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 2/19/2026

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	Toxicity)
LC50 Inhalation - Rat	> 5.41 mg/l air Animal: rat, Guideline: OECD Guideline 403 (Acute Inhalation Toxicity)
Skin corrosion/irritation	: Not available pH: Not applicable
Serious eye damage/irritation	: Not available pH: Not applicable
Respiratory or skin sensitisation	: Not available
Germ cell mutagenicity	: Not available
Carcinogenicity	: Not available
Reproductive toxicity	: Not available
STOT-single exposure	: Not available
STOT-repeated exposure	: Not available

ZINC DUST, STABILIZED (7440-66-6)

NOAEL (oral, rat, 90 days)	31.25 mg/kg bodyweight Animal: rat, Guideline: OECD Guideline 408 (Repeated Dose 90-Day Oral Toxicity Study in Rodents)
Aspiration hazard	: Not available

ETHYL SILICATE ZINC HS B COMPONENT

Viscosity, kinematic	Not applicable
ZINC DUST, STABILIZED (7440-66-6)	
Viscosity, kinematic	> 70.028 mm²/s

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

Symptoms/effects after inhalation	: Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. Although no appropriate human or animal health effects data are known to exist, this material is expected to be an inhalation hazard.
Symptoms/effects after skin contact	: None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.
Symptoms/effects after eye contact	: Risk of serious damage to eyes.
Symptoms/effects after ingestion	: May cause irritation to the digestive tract.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: Very toxic to aquatic life with long lasting effects. Very toxic to aquatic life.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.

ZINC DUST, STABILIZED 7440-66-6

LC50 - Fish [1]	0.182 – 2.01 mg/l
EC50 - Crustacea [1]	0.065 – 35 mg/l
ErC50 algae	0.106 – 2.05 mg/l

12.2. Persistence and degradability

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Persistence and degradability	Not rapidly degradable
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ETHYL SILICATE ZINC HS B COMPONENT

15440749

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 2/19/2026

ZINC DUST, STABILIZED7440-66-6

Persistence and degradability	Not rapidly degradable
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12.3. Bioaccumulative potential

ZINC DUST, STABILIZED7440-66-6

Partition coefficient n-octanol/water (Log Pow)	-0.47 Source: NLM
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12.4. Mobility in soil

No additional information available

12.5. Other adverse effects

Hazardous to the ozone layer : Not available

SECTION 13: Disposal considerations

Waste treatment methods	: Must follow special treatment according to local regulation.
Sewage disposal recommendations	: Disposal must be done according to official regulations.
Product/Packaging disposal recommendations	: Comply with applicable regulations for solid waste disposal. Disposal must be done according to official regulations.
Additional information	: Do not re-use empty containers.

SECTION 14: Transport information

14.1 National and international Regulations

In accordance with IMDG / IATA / ANTT

ANTT	IMDG	IATA
UN number		
1263	1263	1263
UN Proper Shipping Name		
MATERIAL RELACIONADO COM TINTAS	PAINT RELATED MATERIAL	Paint related material
Transport document description		
Not applicable	UN 1263 PAINT RELATED MATERIAL, 4.3 (4.2), III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1263 Paint related material, 4.3 (4.2), III
Transport hazard class(es)		
3	3	3
Danger labels		
3	3	3
		

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8/10

ETHYL SILICATE ZINC HS B COMPONENT

15440749

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 2/19/2026

		
Subsidiary risk		
4.2	4.2	4.2
Risk Number		
30	Not applicable	Not applicable
Packing group		
III	III	III
Special provisions		
163,223,367	163,223,367,955	A3,A72,A192
Dangerous for the environment		
Yes	Yes	Yes

14.2 Other informations

No additional information available

SECTION 15: Regulatory information

15.1. National regulations

Brazil Local Regulations

: Standard ABNT NBR 14725.
Federal Decree no. 10.088, of 5 November 2019 – Promulgates Convention no. 170 of the WLO, relating to Safety in the Use of Chemicals in the Workplace, ratified by the Federative Republic of Brazil.
Ministerial Order no. 2.770, of 5 September 2022 – Approves the new wording of Regulatory Standard No. 26
Federal Decree no. 96.044, of 18 May 1988 - Approves Regulations for Road Transportation of Hazardous Materials
Resolution no. 5998, of 03 November 2022, updates the regulation for road transport of dangerous goods, approves its Complementary Instructions, and other measures.
Law No. 12.305, of August 2, 2010 (National Policy on Solid Waste)

SECTION 16: Other information

Abbreviations and acronyms

: CAS-No. - Chemical Abstracts Service number
ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road
BCF - Bioconcentration factor
EC50 - Median effective concentration
LC50 - Median lethal concentration
VOC - Volatile Organic Compounds
LD50 - Median lethal dose
DMEL - Derived Minimal Effect level
DNEL - Derived-No Effect Level
COD - Chemical oxygen demand (COD)
ATE - Acute Toxicity Estimate
IMDG - International Maritime Dangerous Goods

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15440749

Safety Data Sheet

According to ABNT NBR 14725: 2023

Revision date: 2/19/2026

IATA - International Air Transport Association
EC-No. - European Community number
vPvB - Very Persistent and Very Bioaccumulative
WGK - Water Hazard Class
IOELV - Indicative Occupational Exposure Limit Value
BLV - Biological limit value
TRGS - Technical Rules for Hazardous Substances
TLM - Median Tolerance Limit
IARC - International Agency for Research on Cancer

Important information, but not specifically described in the previous sections: This MSDS was prepared based on current knowledge about the handling of the product under normal conditions of use, according to the application specified on the packaging and recommended usage in Section 1 of this MSDS. Any other use of the product involving its combination with other materials, as well as forms of use different from those indicated, are the user's responsibility. The company advises that the handling of any chemical substance requires prior knowledge of its hazards by the user. In the workplace it is responsibility of the company user of the product to provide training of its employees and contractors about the possible risks arising from exposure to the chemical. We reserve the right to change the information contained in this document without prior notice, due to the improvement and continuous evolution of the product and technical knowledge.

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