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B 270® Thin

Revision date: Print date:

18.08.2022	Revision No:	1,2
02.04.2025	Replaces version:	1,1

Safety Data Sheet

according to 29 CFR 1910.1200(g)

1. Identification **Product identifier** B 270® Thin Further trade names none REACH-Registration status: This substance is exempted according to REACH Article 2 (7) and Annex V. specialty glass, chemical, oxide Substance name: CAS No: 65997-17-3 Recommended use of the chemical and restrictions on use Use of the substance/mixture Glass. Reserved for industrial and professional use. Uses advised against Do not use for private purposes (household). Details of the supplier of the safety data sheet Company name: SCHOTT AG Street: Hüttenstr. 1 Place: D-31073 Grünenplan Telephone: +49 (0)5187 / 771-0 Contact person: Dr. Andreas Helmstedt e-mail: andreas.helmstedt@schott.com Internet: www.schott.com Site Home Tech Grünenplan: Responsible Department: Telefon: +49 (0)5187 / 771 831

Emergency phone number:

Not applicable. The product is not classified as hazardous.

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

This substance is not classified as hazardous in accordance with Regulation 29 CFR 1910.1200(d).

Label elements

Additional advice on labelling

GHS label elements, including precautionary statements: none

Hazards not otherwise classified

This substance does not meet the criteria for classification as PBT or vPvB. In case of inhalation (particulates and dust): Irritation to respiratory tract. A repeated, excessive dust exposure can cause pneumoconiosis. After eye contact (particulates and dust): Do not subject to friction. Risk of serious damage to eyes.

3. Composition/information on ingredients

Substances



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Chemical characterization

specialty glass, chemical, oxide CAS No.: 65997-17-3 EC No.: 701-387-5

As the substance glass is not included in the candidate list of substances of very high concern, currently there are no information duties according to article 33 of REACH. However for the production of glass we may use substances, which are on the candidate list and had been included in Annex XIV of the REACH regulation or could be included in future. These powdery substances are not present as such in the final glass; they are fully integrated into the glass matrix through the melting process. Thus they lose their original characteristics. With unintended use, some of these substances may be released from the matrix and become bioavailable.

The main components of the glass batch are listed as additional information in chapter 16.

Hazardous components

none (according to 29 CFR 1910.1200(g))

Further Information

Substance is complex UVCB.

Composition of mixture according to raw materials, based on the oxides.: SECTION 16: Other information

4. First-aid measures

Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice.

After inhalation

particulates and dust: Provide fresh air. When in doubt or if symptoms are observed, get medical advice.

After contact with skin

particulates and dust: In case of skin reactions, consult a physician.

After contact with eyes

particulates and dust: Rinse immediately carefully and thoroughly with eye-bath or water. In case of eye irritation consult an ophthalmologist.

After ingestion

particulates and dust: Get medical advice/attention.

Most important symptoms and effects, both acute and delayed

In case of inhalation (particulates and dust):

Irritation to respiratory tract. A repeated, excessive dust exposure can cause pneumoconiosis. After eye contact (particulates and dust): Do not subject to friction. Risk of serious damage to eyes.

Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Co-ordinate fire-fighting measures to the fire surroundings.

Specific hazards arising from the chemical

The product itself does not burn. In case of fire may be liberated: Metal oxide smoke, toxic

Special protective equipment and precautions for fire-fighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.



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Additional information

Knock down dust with water spray jet. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

General advice

Provide adequate ventilation. Use personal protection equipment. Avoid dust formation. Do not breathe dust.

For non-emergency personnel

Use personal protection equipment.

For emergency responders

Use personal protection equipment.

Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Methods and material for containment and cleaning up

For containment

Measures to prevent aerosol and dust generation

For cleaning up

Take up mechanically. Do not subject to friction. Treat the recovered material as prescribed in the section on waste disposal.

Other information

Clean contaminated articles and floor according to the environmental legislation.

Reference to other sections

Safe handling: see section 7 Personal protection equipment (PPE): see section 8 Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation. Use personal protection equipment. Avoid dust formation. Do not breathe dust.

Advice on protection against fire and explosion

Usual measures for fire prevention.

Advice on general occupational hygiene

Take off contaminated clothing. Wash hands before breaks and after work. When using do not eat or drink. Avoid dust formation. Do not breathe dust. Avoid contact with skin, eyes and clothes.

Further information on handling

No information available.

Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Provide adequate ventilation. Store in a dry place.

Hints on joint storage

Do not store together with: Strong acid, hydrofluoric acid, phosphoric and phosphorous acid, Alkali (lye), concentrated

Further information on storage conditions

Protect from moisture.



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8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No	Substance	ppm	mg/m³	f/cc	Category	Origin
-	Particles (insoluble or poorly soluble) not otherwise specified (inhalable fraction)		10		TWA (8 h)	ACGIH-2022
-	Particles (insoluble or poorly soluble) not otherwise specified (respirable fraction)		3		TWA (8 h)	ACGIH-2022
-	Particulates not Otherwise regulated (PNOR) Respirable fraction	529.5 mp/m ³	5		TWA (8 h)	PEL
-	Particulates not Otherwise regulated (PNOR) Total dust	1765 mp/m³	15		TWA (8 h)	PEL

Exposure controls



Appropriate engineering controls

Provide adequate ventilation as well as local exhaustion at critical locations. Technical measures and the application of suitable work processes have priority over personal protection equipment.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye/face protection.

Hand protection

Wear suitable gloves. (cut-resistant)

Skin protection

Wear suitable protective clothing. Disposal of contaminated protective clothing separately, do not reuse.

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Thermal hazards

In case of melting: Wear protective gloves/protective clothing. (heat-resistant)

Environmental exposure controls

Do not allow to enter into surface water or drains.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state:	solid
Color:	No information available.
Odor:	odorless
Odour threshold:	not determined

Changes in the physical state

Melting point/freezing point: Boiling point or initial boiling point and boiling range: **Test method**

not determined not determined



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glass transition temperature:	525-545 °C	ISO 7884-8
Flash point:	not applicable	
Flammability Solid/liquid: Gas:	not applicable not applicable	
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Auto-ignition temperature:	not applicable	
Decomposition temperature:	> 525 °C	
pH-Value:	10,7	OECD 122
Viscosity / kinematic:	not applicable (solid)	
Water solubility:	not applicable	
Solubility in other solvents Fat: not applicable		
Partition coefficient n-octanol/water:	The substance is not soluble in water.	
Vapor pressure:	up to Tg no significant vapor pressure is to be expected	
Density:	2,5 g/cm³	
Relative vapour density:	not applicable	
Particle characteristics:	not determined	
Other information		
Other safety characteristics		
softening point:716°C		
10. Stability and reactivity		
<u>Reactivity</u> No hazardous reaction when handle <u>Chemical stability</u>	ed and stored according to provisions.	
Stability:	Stable	
The product is stable under storage at normal ambient temperatures.		
Possibility of hazardous reactions		
Hazardous reactions:	Will not occur	
Reacts with: Strong acid, hydrofluor	ic acid, phosphoric and phosphorous acid, Alkali (lye),	concentrated
<u>Conditions to avoid</u> Humidity Temperature > glass transition temp	perature (Formation of: Metal oxide smoke, toxic)	
Incompatible materials Strong acid, hydrofluoric acid, phos	phoric and phosphorous acid, Alkali (lye), concentrated	
Hazardous decomposition products Metal oxide smoke, toxic (Tempera	ture > glass transition temperature)	
11. Toxicological information		



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Route(s) of Entry

oral, dermal, inhalative, Eye contact

Information on toxicological effects

Acute toxicity

Based on available data, the classification criteria are not met.

The toxicological potential of glasses results from the bioavailability of individual components when used improperly. This is determined by the bioaccessibility test according to Fraunhofer. It is a leaching method of the material performed in 5 artificial body fluids.

Acute oral toxicity: no bioaccessibility detected

Acute dermal toxicity: no bioaccessibility detected

Acute inhalation toxicity: no bioaccessibility detected

Irritation and corrosivity

Based on available data, the classification criteria are not met.

After eye contact (particulates and dust): Irritant effect on the eye:

pH: Test results: refer to section 9.

at pH 5,6 - < 7,3 & > 9,7 - 10,5: Potential hazards: Irritation (GHS/CLP criteria are not met.)

at pH > 2 - < 5,6 & > 10,5 - < 11,5: Potential hazards: Risk of serious damage to eyes. (GHS/CLP criteria are not met.)

Sensitizing effects

Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction

Based on available data, the classification criteria are not met. antimony (Sb2O3): no bioaccessibility detected

Specific target organ toxicity (STOT) - single exposure Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Information on other hazards

Endocrine disrupting properties

No information available.

Other information

In case of inhalation (particulates and dust): Irritation to respiratory tract. A repeated, excessive dust exposure can cause pneumoconiosis.

12. Ecological information

Ecotoxicity

The ecotoxicological effect of glasses is determined by the ecological accessability of hazardous substances that can be released under environmental conditions from the glass matrix. For characterization, the test from the German landfill regulation (Dep-VO) is used. In the evaluation, the leachable hazardous substance content, in relation to the total amount of the per se non-hazardous glass, is treated as a standard mixture proportion and classified accordingly.

Result / Evaluation: The product is not: Ecotoxic.

Persistence and degradability

Inorganic product which is not eliminable from water through biological cleaning processes. The methods for



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determining the biological degradability are not applicable to inorganic substances.

Bioaccumulative potential

No information available.

Mobility in soil

No information available.

Endocrine disrupting properties

This substance does not have endocrine disrupting properties with respect to non-target organisms.

Other adverse effects

No information available.

Further information

Avoid release to the environment.

13. Disposal considerations

Waste treatment methods

Disposal recommendations

Do not allow to enter into surface water or drains. Neither the product nor the residues from the processing. Dispose of waste according to applicable legislation.

Contaminated packaging

Dispose of waste according to applicable legislation.

14. Transport information

U.S. DOT 49 CFR 172.101

Proper shipping name:

Marine transport (IMDG)

UN number or ID number:
UN proper shipping name:
Transport hazard class(es):
Packing group:No dangerous good in sense of this transport regulation.
No dangerous good in sense of this transport regulation.Air transport (ICAO-TI/IATA-DGR)
UN number or ID number:No dangerous good in sense of this transport regulation.

No

No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation. No dangerous good in sense of this transport regulation.

No dangerous good in sense of this transport regulation.

Packing group: Environmental hazards

ENVIRONMENTALLY HAZARDOUS:

Special precautions for user

UN proper shipping name:

Transport hazard class(es):

No information available.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

15. Regulatory information

U.S. Regulations

National Inventory TSCA

CAS No.: 65997-17-3, specialty glass, chemical, oxide: Yes.

State Regulations



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Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65, State of California) This product can not expose you to chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

16. Other information

Hazardous Materials Information	· · ·	
	0	
Flammability:	0	
Physical Hazard:	0	
NFPA Hazard Ratings		
Health:	0	
Flammability:	0	
Reactivity:	0	
Unique Hazard:		\checkmark
Changes		
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This data sheet contains cha		ersion in section(s): 1,3,11,12.
Abbreviations and acronyms	5 1	
ACGIH: American Conference	e of Governmental Indus	rial Hygienists
CFR: Code of Federal Regul		na rygionioto
DOT: Department of Transpo		
ICAO: International Civil Avia		
IMDG: International Maritime	÷	ods
IATA: International Air Trans		
IARC: International Agency f		
GHS: Globally Harmonized S	System of Classification a	ld Labelling of Chemicals
CAS: Chemical Abstracts Se	rvice	-
NFPA: National Fire Protection	on Association	
NTP: National Toxicology Pr	ogram	
OSHA: Occupational Safety		
PEL: permissible exposure li		
REL: recommended exposur		
SARA: Superfund Amendme		.ct
STEL: Short-term exposure I		
TSCA: Toxic Substances Co		
TWA: time-weighted average	;	
TI: Technical Instructions		
DGR: Dangerous Goods Reg	gulations	
UN: United Nations		
ATE: Acute toxicity estimate	-00/	
LC50: Lethal concentration,	50%	
LD50: Lethal dose, 50%		
LL50: Lethal loading, 50% EL50: Effect loading, 50%		
EC50: Effective Concentration	n 50%	
ErC50: Effective Concentrati		
ErC50: Effective Concentrati NOFC: No Observed Effect (
ErC50: Effective Concentrati NOEC: No Observed Effect (BCF: Bio-concentration facto	Concentration	



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IBC: Intermediate Bulk Container VOC: Volatile Organic Compounds

Other data

Composition of mixture according to raw materials, based on the oxides.:

Substance name: SILICON DIOXIDE CAS No.: 7631-86-9 Weight fraction: 65 - 75 SVHC substance.: No. Carcinogenicity: No.

Substance name: SODIUM OXIDE CAS No.: 1313-59-3 Weight fraction: 5 - 15 SVHC substance.: No. Carcinogenicity: No.

Substance name: POTASSIUM OXIDE CAS No.: 12136-45-7 Weight fraction: 4 - 10 SVHC substance.: No. Carcinogenicity: No.

Substance name: CALCIUM OXIDE CAS No.: 1305-78-8 Weight fraction 5 - 11 SVHC substance.: No. Carcinogenicity: No.

Substance name: BARIUM OXIDE CAS No.: 1304-28-5 Weight fraction < 4 SVHC substance.: No. Carcinogenicity: No.

Substance name: ZINC OXIDE CAS No.: 1314-13-2 Weight fraction: < 6 SVHC substance.: No. Carcinogenicity: No.

Substance name: TITANIUM DIOXIDE CAS No.: 13463-67-7 Weight fraction: < 2 SVHC substance.: No. Carcinogenicity: No. (nano= Carcinogenicity 2)

Substance name: ANTIMONY TRIOXIDE CAS No.: 1309-64-4 Weight fraction: < 1 SVHC substance.: No. Carcinogenicity: Yes. (Carcinogenicity 2)

Occupational exposure limit values, air limit values, Biological limit values: For further specification, refer to



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section 8 of the SDS.

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.