



SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

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

*** 1.1 Product identifier**

Trade name/designation SKYSTYR®

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

Use of the substance/mixture

Industrial application

1.3 Details of the supplier of the safety data sheet

Supplier

PreZero Polymers Austria GmbH
Industriezone Ost 5
AT-9111 Haimburg
Telephone +49 (0)511 9590 2000
E-mail info@prezero.com
Website <https://www.prezero.com/>

E-mail (competent person):
info@prezero.com

1.4 Emergency telephone number

PreZero Polymers Austria GmbH +43 01 406 43 43
Mo. - So. 0:00 - 24:00

*** SECTION 2: Hazards identification**

*** 2.1 Classification of the substance or mixture**

*** Remark**

The mixture is classified as not hazardous according to regulation (EC) No 1272/2008 [CLP].

2.2 Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

*** Additional information**

The mixture is exempt from the labelling requirements of EC Regulation No. 1272/2008 [GHS].

Additional information

Heated material can cause burns. If spilled material is slippery. During processing electrostatic discharge can occur. Possible formation of electrostatic charges during handling. On heating the material fumes can irritate the eyes and mucous membranes.

2.3 Other hazards

Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.



SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

SECTION 3: Composition / information on ingredients

3.1 Substances

not applicable

3.2 Mixtures

Description

Polystyrene-based polymer with added fillers (calcium carbonate/alkali), additives and masters

SECTION 4: First aid measures

4.1 Description of first aid measures

General information

At normal ambient temperature, the product is not irritating, and there are no fumes. The actions listed below apply to critical situations (fire, improper use).

First aider: Pay attention to self-protection!

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

Following inhalation

Remove casualty to fresh air and keep warm and at rest.

Following skin contact

Wash with soap and water.

The cooled mass may not be detached from the skin. Immediately consult a doctor.

After eye contact

In case of contact with eyes rinse thoroughly with plenty of water (at least 15 minutes) and seek medical advice.

Remove contact lens.

Following ingestion

Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No data available

4.3 Indication of any immediate medical attention and special treatment needed

Notes for the doctor

Treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Foam

Extinguishing powder

Sand

Water mist

Carbon dioxide (CO₂)

Unsuitable extinguishing media

Full water jet



SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire may be liberated:

Hydrocarbons
Carbon dioxide (CO₂)
Carbon monoxide

5.3 Advice for firefighters

Special protective equipment for firefighters

In case of fire and/or explosion do not breathe fumes.
In case of fire: Wear self-contained breathing apparatus.

Additional information

The fire originated substances are dangerous. In the early stages of the fire (especially between 400°C-700°C) the formation of hydrocarbons and aldehyde (acetic and crotonic acid) is possible.

*** SECTION 6: Accidental release measures**

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

*** For non-emergency personnel**

Use breathing apparatus if exposed to vapours/aerosol.

*** For emergency responders**

Keep people away and stay on the upwind side.
Use breathing apparatus if exposed to vapours/aerosol.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

For containment

If there is a risk of entry into the sewerage system, erect barriers and/or cover the sewerage system.

For cleaning up

Take up mechanically, placing in appropriate containers for disposal.

6.4 Reference to other sections

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

SECTION 7: Handling and storage



SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

7.1 Precautions for safe handling

Protective measures

Ensure adequate ventilation.

No special instructions at ambient temperature. Avoid the release of the product - slippery surface. Vapors can arise at processing temperature: development of propylen, ethylene, hydrocarbons with low molecular weight and their oxidation products, solvents, traces of aldehyde (formaldehyde and acroleyn), traces of acids (formic and acetic acid). During the process you must wear masks and there must be an aspiration system.

In the case of colored products the prescribed processing temperatures should not be exceeded, as may arise from the dyes / pigments, hazardous decomposition products.

Experimental trials in various phases of production have been identified that the level of formaldehyde, acroleyn, formic acid and acetic acid are well below the TLV - TWA level. If during transportation or handling powder is produced, take precautions against the risk of explosions.

Advices on general occupational hygiene

When using do not eat, drink, smoke.

Wash hands before breaks and after work.

Please observe work hygiene regulations.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep container tightly closed in a cool, well-ventilated place.

Storage class

11 Combustible solids that cannot be assigned to any of the above storage classes

Materials to avoid

Oxidising agent

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Avoid ignition sources. Connect and ground system parts in an electrically conductive manner.

Protect against:

Heat

UV-radiation/sunlight

Humidity

7.3 Specific end use(s)

Recommendation

See section 1.2

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

No data available

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Sufficient ventilation and exhaustion.

Personal protection equipment

Eye/face protection

Safety goggles (EN 166)



SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

Hand protection

Suitable material:
heat-resistant

The selection of a suitable glove depends from manufacturer to manufacturer not only on the material, but also on further quality criteria.

Body protection:

Protective clothing

Respiratory protection

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Suitable respiratory protection apparatus:

A2/P2 combination filter unit (DIN EN 141).

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state

Granulate

Colour

various, depending on coloration

Odour

odourless

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:	not determined		
Melting point/freezing point	90- 130 °C		
Boiling point or initial boiling point and boiling range	not determined		
flammability	not determined		
Lower and upper explosion limit	not determined		
Flash point	> 385 °C		
Auto-ignition temperature	not determined		
Decomposition temperature	> 300 °C		
pH	not determined		
Viscosity	not determined		
Solubility(ies)	Water solubility (20°C)		Immiscible
Partition coefficient n-octanol/water (log value)	not determined		
Vapour pressure	not determined		
Density and/or relative density	1.05 kg/dm ³ (20°C)		
Relative vapour density	not determined		
particle characteristics	not determined		



SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

9.2 Other information

Other safety characteristics

	Value	Method	Source, Remark
Explosive properties			The product is not explosive
Oxidising properties			The product is not oxidizing

Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

No hazardous reaction when handled and stored according to provisions.

10.2 Chemical stability

The mixture is chemically stable under recommended conditions of storage, use and temperature.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Keep away from heat/sparks/open flames/hot surfaces. – No smoking.
moisture

10.5 Incompatible materials

strong oxidants

10.6 Hazardous decomposition products

In case of fire may be liberated:
Carbon monoxide
Carbon dioxide
Hydrocarbons

SECTION 11: Toxicological information

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Animal data

	Effective dose	Method,Evaluation	Source, Remark
Acute oral toxicity	not determined		
Acute dermal toxicity	not determined		
Acute inhalation toxicity	not determined		

Assessment/classification

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



SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

Skin corrosion/irritation

Practical experience/human evidence

Escaping gases and vapors may irritate your eyes, skin and nose.

Assessment/classification

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

Serious eye damage/irritation

Assessment/classification

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

Sensitisation to the respiratory tract

Practical experience/human evidence

Vapors and mists of the product generated at high temperatures are irritating to eyes and respiratory tract.

Assessment/classification

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

Skin sensitisation

Assessment/classification

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

Germ cell mutagenicity

not determined

Carcinogenicity

not determined

Reproductive toxicity

not determined

Overall Assessment on CMR properties

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

STOT-single exposure

STOT SE 1 and 2

Assessment/classification

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

STOT-repeated exposure

Assessment/classification

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

Aspiration hazard

Assessment/classification

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

11.2 Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics



SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties		The substance/mixture does not contain any components that are to be classified according to REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605 at levels of 0.1% or more have endocrine disrupting properties.

*** SECTION 12: Ecological information**

12.1 Toxicity

Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	not determined		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	not determined		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	not determined		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

12.2 Persistence and degradability

Assessment/classification

The product is hardly soluble in water. It can be largely eliminated from the water by abiotic processes, e.g. mechanical separation.

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

*** 12.6 Endocrine disrupting properties**



SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties		The substance/this mixture does not contain any components, which have endocrine disrupting properties in quantities of 0.1% or more, in accordance with REACH Article 57(f) or Commission Delegated Regulation (EU) 2017/2100 or Commission Delegated Regulation (EU) 2018/605.

12.7 Other adverse effects

Additional ecotoxicological information

Additional information

The product is not biodegradable. Do not discharge into the environment. The product is not toxic, but small parts may have effects on aquatic organisms.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Appropriate disposal / Product

Dispose of waste according to applicable legislation.

Appropriate disposal / Package

Dispose of waste according to applicable legislation.

Other disposal recommendations

Do not allow to enter into surface water or drains.

Remark

The material can be recycled according to the current regulations. The recycling has to be done by an authorized recycler. Do not discharge in drainage systems, streams, wells or environment in general. Incineration and disposal must be in accordance with EU directives, but also be carried out according to national and state-related laws. Check before reuse. Empty containers could (if they are not contaminated) be re-used or used either for internal materials.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	-	-	-
14.2 UN proper shipping name	-	-	-
14.3 Transport hazard class(es)	-	-	-
14.4 Packing group	-	-	-
14.5 Environmental hazards	-	-	-



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

SKYSTYR®

Print date 23.05.2023
Revision date 04.05.2023
Version 3.0 (en)
replaces version of 24.08.2021 (2.0)

14.6 Special precautions for user

No data available

14.7 Maritime transport in bulk according to IMO instruments

not applicable

All transport carriers

No dangerous goods as defined by the transport regulations - ADR/RID, IMDG, ICAO/IATA-DGR.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

A material safety assessment was not conducted.

*** SECTION 16: Other information**

*** Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

*** Key literature references and sources for data**

Data sheets of the sub-supplier.

Classification for mixtures and used evaluation method according to regulation (EC) No 1272/2008 [CLP]

The mixture is to be produced on the basis of the available hazard data of the ingredients, as defined in the classification criteria for mixtures for each hazard class in Annex I to Regulation (EC) No 1272/2008, classified.

Additional information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

Indication of changes

* Data changed compared with the previous version