

**This product is an article. A safety data sheet is not required for this product.
This document is provided to instruct you how to handle this product safely.**

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

Product form : Article
 Trade name : TWARON® 3515
 Use of the article : Elastomer reinforcement.
 Restrictions on use : In the event that the product is to be used in special areas of application that differ from the abovementioned applications, including but not limited to applications regarding the food industry (in particular related to food contact) or the medical/surgical sector (in particular related to body fluid contact), prior consultation with Teijin Aramid is required.
 Supplier : Teijin Aramid BV
 T +3188 268 88 88
 SDSinfo@teijinaramid.com

SECTION 2: Hazards identification

This product is an article and not a chemical substance or mixture. Therefore labelling as a hazardous substance/mixture is not required.
 So far no impairment of health has become known in cases where the product has been used for its intended application
 This product contains Synthetic Polymer Microparticles (SPM).

SECTION 3: Composition/information on ingredients

Comments : Aramid (ISO 2076), Polymer.

Name	Product identifier	Conc. (% w/w)
Poly-(para-phenylene-terephthalamide)	(CAS-No.) 26125-61-1	≥ 37.5 – ≤ 42.5
Cyclohexylidenebis[tert-butyl] peroxide	(CAS-No.) 3006-86-8	≥ 0.1 – ≤ 15

SECTION 4: First aid measures

First-aid measures general : In all cases of doubt, or when symptoms persist, seek medical attention.
 First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.
 First-aid measures after skin contact : If skin irritation occurs, wash thoroughly with soap and water.
 First-aid measures after eye contact : Rinse immediately with plenty of water. Contact lenses should be removed. If eye irritation persists: Get medical advice/attention.
 First-aid measures after ingestion : Rinse mouth with water.
 Symptoms/effects after inhalation : Dust from this product may cause irritation to the respiratory tract. Coughing, sneezes.
 Symptoms/effects after skin contact : Slight skin irritation has been observed in isolated cases. Itching. Rednesses.
 Symptoms/effects after eye contact : Dust from this product may cause eye irritation. Redness. Tears. Pain.

SECTION 5: Firefighting measures

Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
 Unsuitable extinguishing media : Halons.
 Hazardous decomposition products in case of fire : Incomplete combustion will generate: Cyclohexanone, tert-butyl hydroperoxide. Under fire conditions, hazardous fumes will be present: Carbon dioxide, Carbon monoxide, Nitrogen oxides, Organic compounds, Hydrogen cyanide. Beware of reignition.

SECTION 6: Accidental release measures

General measures : Do not breathe dust.
 Environmental precautions : Avoid release to the environment.

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Methods for cleaning up

: Carefully shovel or sweep up spilled material and place in suitable container. Minimise generation of dust. In case of dust formation, the use of a vacuum or local exhaust ventilation with high efficiency particulate air (HEPA) filtration is recommended.

SECTION 7: Handling and storage

Precautions for safe handling

: Handle in accordance with good industrial hygiene and safety practice. Handle packaged products carefully to prevent accidental bursting. Use only in a controlled area. Provide appropriate exhaust ventilation at places where dust is generated. Filter exhaust air through a HEPA H13 filter (or better). Avoid contact with eyes and clothing. Clean up thoroughly after use. Use wet cleaning techniques or vacuum cleaners with HEPA filters for removal of dust. Keep away from open flames, hot surfaces and sources of ignition.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

Storage conditions

: Store in original container. Keep container tightly closed. Keep cool. Store in a dry, well ventilated place away from sources of heat, ignition and direct sunlight. Keep away from food, drink and animal feedingstuffs. Do not freeze.

Incompatible materials

: Strong acids. Strong bases. Reducing agents. Heavy metals.

Storage temperature

: < 25 °C

Heat and ignition sources

: SADT - (Self accelerating decomposition temperature) is the lowest temperature at which self accelerating decomposition may occur with a substance in the packaging as used in transport. A dangerous self-accelerating decomposition reaction and, under certain circumstances, explosion or fire can be caused by thermal decomposition at and above the following temperature: 80 °C. Contact with incompatible substances can cause decomposition at or below the SADT 80 °C.

SECTION 8: Exposure controls/personal protection

Additional information

: Occupational Exposure Limit, Time Weighted Average (OEL TWA, 8h) - inhalable dust: 10 mg/m3. Users are advised to consider national Occupational Exposure Limits or other equivalent values

Appropriate engineering controls:

Minimise exposure using measures such as closed systems, dedicated facilities and suitable general/local exhaust ventilation. Filter exhaust air through a HEPA H13 filter (or better).

Hand protection:					
None under normal use. Slight skin irritation has been observed in isolated cases. If skin irritation occurs: Protective gloves					
Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Protective gloves	Butyl rubber, Neoprene rubber (HNBR)	6 (> 480 minutes)	0.4		EN 374
Eye protection:					
Type	Use	Characteristics		Standard	
Safety glasses with side shields				EN ISO 16321-1	
Skin and body protection:					
Long sleeved protective clothing					
Respiratory protection:					
No respiratory protection needed under normal use conditions. In case of insufficient ventilation, wear suitable respiratory equipment					
Device	Filter type	Condition		Standard	
Dust mask, APF=10	Type P2	In the event of insufficient ventilation		EN 149	

Personal protective equipment symbol(s):



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Environmental exposure controls:

Avoid release to the environment.

Other information:

Handle in accordance with good industrial hygiene and safety procedures.

SECTION 9: Physical and chemical properties

Physical state	: Solid
Appearance	: Granulate
Colour	: Dark yellow
Odour	: Odourless
Melting point	: Not applicable (Decomposes)
Decomposition temperature	: 80 °C (Self accelerating decomposition temperature)
Density	: 980 kg/m ³
Solubility	: Water: Negligible
Explosive properties	: Not explosive

SECTION 10: Disposal considerations

Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions. If water is used for further treatment, be aware that it is possible that the additives from the yarn can be removed in an aqueous medium.
Sewage disposal recommendations	: If water is used for further treatment, the waste water generated by the process must be treated in a water purification plant in compliance with local regulations.
Product/Packaging disposal recommendations	: Empty containers should be taken for recycling, recovery or waste in accordance with local regulation.

SECTION 11: Regulatory information

European Union

This product is an article as defined by REACH REGULATION (EC) No 1907/2006. Labelling according to CLP REGULATION (EC) No 1272/2008 is therefore not required. This document is provided in order to communicate information on substances in this article, in order to allow safe use in compliance with REACH REGULATION (EC) No 1907/2006 article 33.1.

Contains no substance(s) listed on the REACH Candidate List $\geq 0,1\%$ / Specific concentration limits

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

This product contains one or more substances subject to restriction (Regulation (EC) No 1907/2006 (REACH), Annex XVII):

Entry No 78: Twaron 3515 contains Synthetic Polymer Microparticles (SPM) as defined by REACH restriction Entry 78. Paragraph 1 (prohibition for placing on the market) of entry 78 is not applicable to articles. Paragraph 11 (yearly information pass on to the ECHA) is applicable for this product starting from 2027.

USA

This product is an article as defined by OSHA 29 CFR 1910.1200 paragraph c. According to 1910.1200(b)(6)(v), articles are exempt from hazard communication via GHS label and Safety Data Sheet. Labeling according to GHS is therefore not required.

This document is provided in order to communicate information on substances in this article, in order to allow safe use.

Canada

This product is an article as defined by Hazardous Products Act (R.S.C., 1985, c. H-3), paragraph 2. According to paragraph 12(i) manufactured articles are exempt from hazard communication via HPR label and Safety Data Sheet. Labeling according to HPR is therefore not required. This document is provided in order to communicate information on substances in this article, in order to allow safe use.

Mexico

This product is an article. "Articles" as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the GHS system. Labeling according to GHS is therefore not required. This document is provided to communicate information on substances in this article, in order to allow safe use.

National regulatory information: NORMA Oficial Mexicana NOM-018-STPS-2015

People's Republic of China

This product is an article. "Articles" as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the GHS system. Labeling according to GHS is therefore not required. This document is provided to communicate information on substances in this article, in order to allow safe use.

National regulatory information: GB 30000.2-29-2013

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Japan

This product is an article as defined by JIS Z7252:2019. According to JIS Z7252:2019, articles are exempt from hazard communication via GHS label and Safety Data Sheet. Labeling according to GHS is therefore not required.

This document is provided in order to communicate information on substances in this article, in order to allow safe use.

Korea

This product is an article. "Articles" as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the GHS system. Labeling according to GHS is therefore not required. This document is provided to communicate information on substances in this article, in order to allow safe use.

National regulatory information: MoEL's Public Notice No. 2016-19

Brazil

This product is an article. "Articles" as defined in the Hazard Communication Standard (29 CFR 1910.1200) of the Occupational Safety and Health Administration of the United States of America, or by similar definition, are outside the scope of the GHS system. Labeling according to GHS is therefore not required. This document is provided to communicate information on substances in this article, in order to allow safe use.

National regulatory information: ABNT NRB 14725

ASDS - Teijin

Disclaimer

The information given in this Article Safety Data Sheet for Man-made Fibers refers exclusively to the fiber product described herein. It covers neither its use in combination with any other material/preparation/product nor its use in any process. The purpose of this Article Safety Data Sheet for Man-made Fibers is to make adequate and correct information available to commercial users of man-made fibers for the protection of human beings and the environment. The information given in this Article Safety Data Sheet for Man-made Fibers reflects the standard of knowledge of the party completing the sheet at the time of printing. It is not a contractual guarantee of product properties. It remains the user's own responsibility to make sure that the information is appropriate and complete for his special use of this product.