

Safety Datasheet ABS Standardtype virgin

According to Reg. (EU) 2020/878

Section 1: Identification of the substance/mixture

1.1 Product identifier

Productcode 00000000000005876

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

Use of the substance/mixture A thermoplastic resin, for industrial conversation as a raw material for manufacture of articles or goods

1.3 Details of the supplier/manufacturer

On request

1.4 Emergency telephone number

24-hour Emergency Contact +(1) 703 741 5970
Local Emergency Contact 0800 181 7059

Section 2: Hazards identification

2.1 Classification of the substance/mixture

Classification (Regulation (EC) No. 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.2 Label elements

Labelling (Regulation (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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Section 3: Composition/information on onredients

3.2 Mixtures

This product is a mixture.

CAS RN / EC-No. Index-No.	REACH Registration number	Concentration	Component	Classification: Regulation (EC) No. 1272/2008
CAS RN 9003-56-6 EC-No. Polymer Index-No. -	-	>= 99,0 %	Acrylonitrile/butadiene/ styrene resin	Not classified

If present in this product, any not classified components disclosed above for which no country specific OEL value(s) is(are) indicated under Section 8, are being disclosed as voluntarily disclosed components

Section 4: First aid measures

4.1 Description of first aid measures

General advice:

First Aid responders should pay attention to self-protection and use the recommended protective cloth-ing (chemical resistant gloves, splash protection). If potential for exposure exists refer to Section 8 for specific personal protective equipment.

Inhalation	Move person to fresh air and keep comfortable for breathing; consult a physician.
Skin contact	Wash off with plenty of water. Seek first aid or medical attention as needed. If molten material comes in contact with the skin, do not apply ice but cool under ice water or running stream of water. DO NOT attempt to remove the material from skin. Removal could result in severe tissue dam-age. Seek medical attention immediately. Suitable emergency safety shower facility should be imme-diatly available.
Eye contact	Flush eyes thoroughly with water for several minutes. Remove contact lenses after the initial 1-2 minutes and continue flushing for several additional minutes. If effects occur, consult a phy-sician, preferably an ophthalmologist.
Ingestion	If swallowed, seek medical attention. May cause gastrointestinal blockage. Do not give laxatives. Do not induce vomiting unless directed to do so by medical personnel.

4.2 Most important symptoms and effects, both acute and delayed:

Aside from the information found under Description of first aid measures (above) and Indication of immediate medical attention and special treatment needed (below), any additional important symp-toms and effects are described in Section 11: Toxicology Information.

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4.3 Indication of any immediate medical attention and special treatment needed

Notes to physician: If burn is present, treat as any thermal burn, after decontamination. If lavage is performed, suggest endotracheal and/or esophageal control. Danger from lung aspiration must be weighed against toxicity when considering emptying the stomach. No specific antidote. Treatment of exposure should be directed at the control of symptoms and the clinical condition of the patient.

Section 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media: Water fog or fine spray.
Dry chemical fire extinguishers.
Carbon dioxide fire extinguishers.
Foam

Unsuitable extinguishing media: None known.

5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-fighting:

Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, do not permit dust to accumulate.
Dense smoke is produced when product burns.

Hazardous combustion products:

During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating.
Combustion products may include and are not limited to:
Nitrogen oxides.
Carbon monoxide
Carbon dioxide
Combustion products may include trace amounts of:
Styrene.
Hydrogen cyanide.

5.3 Advice for firefighters

Special protective equipment for firefighters:

Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves) If protective equipment is not available or not used, fight fire from a protected location or safe distance

Further information:

Keep people away. Isolate fire and deny unnecessary entry
Soak thoroughly with water to cool and prevent re-ignition.
If material is molten, do not apply direct waterstream. Use fine water spray or foam.
Cool surroundings with water to localize fire zone.
Hand held dry chemical or carbon dioxide extinguishers may be used for small fires.

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Section 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions Spilled material may cause a slipping hazard.
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.

6.2 Environmental precautions

Environmental precautions Prevent from entering into soil, ditches, sewers, waterways and/or groundwater.
See section 12, Ecological information.

6.3 Methods and material for containment and cleaning up

Contain spilled material if possible.
Sweep up.
Collect in suitable and properly labeled containers.
See Section 13, Disposal Considerations, for additional information.

6.4 Reference to other sections

References to other sections, if applicable, have been provided in the previous sub-sections.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advice on safe handling

No smoking, open flames or sources of ignition in handling and storage area.
Good housekeeping and controlling of dusts are necessary for safe handling of product.
Avoid breathing process fumes.
Use with adequate ventilation.
When appropriate, unique handling information for containers can be found on the product label.
Workers should be protected from the possibility of contact with molten resin.
Do not get molten material in eyes, on skin or clothing.
Pneumatic conveying and other mechanical handling operations can generate combustible dust.
To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate.
Dust can be ignited by static discharge.

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7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Store in accordance with good manufacturing practices.

7.3 Specific end uses(s)

See the technical data sheet on this product for further information.

Section 8: Exposure controls / personal protection

8.1 Control parameters

If exposure limits exist, they are listed below. If no exposure limits are displayed, then no values are applicable.

8.2 Exposure controls

Engineering controls

Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Individual protection measures

Eye-/face protection

Use safety glasses (with side shields). Safety glasses (with side shields) should be consistent with EN 166 or equivalent. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Chemical goggles should be consistent with EN 166 or equivalent. If exposure causes eye discomfort, use a full-face respirator (meeting standard EN 136) with organic vapor cartridge (meeting standard EN 14387).

Skin protection

Hand protection

Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Use gloves with insulation for thermal protection (EN 407), when needed. Use gloves to protect from mechanical injury. Selection of gloves will depend on the task.

Other protection

No precautions other than clean body-covering clothing should be needed.

Respiratory protection

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. Use an approved air-purifying respirator when vapors are generated at increased temperatures or when dust or mist is present.

Use the following CE approved air-purifying respirator: When dust/mist are present use a/an Particulate filter, type P2 (meeting standard EN 143). When combinations of vapors, acids, or dusts/mists are present use a/an Organic vapor cartridge with a particulate pre-filter, type AP2 (meeting standard EN 14387).

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Environmental exposures controls

See SECTION 7: Handling and storage and SECTION 13: Disposal considerations for measures to prevent excessive environmental exposure during use and waste disposal.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	Granules
Colour	White
Odour	Odorless
Odour Threshold	No test data available
pH	not applicable
Melting point / range	No test data available
Freezing point	Not applicable
Boiling point/boiling range	Not applicable
Flash point	Method: closed cup Not applicable
Evaporation rate	Not applicable
Flammability (solid, gas)	May form combustible dust concentrations in air during pro-cessing, handling or other means.
Upper explosion limit/ Upper flammability limit	Not applicable
Lower explosion limit/ Lower flammability limit	Not applicable
Vapour pressure	Not applicable
Relative Vapour density	Not applicable
Solubility (ies)	
Water solubility	negligible Method: Estimated.
Partition coefficient: n- Octanol/water	No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).
Auto-ignition temperature	No test data available
Decomposition temperature	No test data available
Viscosity, kinematic	Not applicable
Explosive properties	No test data available
Oxidizing properties	No test data available

9.2 Other information

Molecular weight	No test data available
Particle size	Not determined
Self-ignition	Method: Literature The substance or mixture is not classified as pyrophoric.

Section 10: Stability and reactivity

10.1 Reactivity

No dangerous reaction known under conditions of normal use.

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10.2 Chemical stability Stable.

10.3 Possibility of hazardous reactions

Polymerization will not occur.

10.4 Conditions to avoid

Avoid temperatures above 300 °C

Exposure to elevated temperatures can cause product to decompose.

10.5 Incompatible materials

None known.

10.6 Hazardous decomposition products

Decomposition products depend upon temperature, air supply and the presence of other materials. Processing may release fumes and other decomposition products. At temperatures exceeding melt temperatures, polymer fragments can be released. Fumes can be irritating.

Section 11: Toxicological information

Toxicological information appears in this section when such data is available.

11.1 Information on toxicological effects

Acute toxicity (represents short term exposures with immediate effects - no chronic/delayed effects known unless otherwise noted)

Acute oral toxicity

Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. May cause choking if swallowed.

Single dose oral LD50 has not been determined.

Typical for this family of materials.

LD50, Rat, > 5 000 mg/kg Estimated

Information for components:

Acrylonitrile/butadiene/styrene resin

Single dose oral LD50 has not been determined

Acute dermal toxicity

No adverse effects anticipated by skin absorption.

The dermal LD50 has not been determined.

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Typical for this family of materials.
LD50, Rat, > 5 000 mg/kg Estimated

Information for components:

Acrylonitrile/butadiene/styrene resin

Single dose oral LD50 has not been determined.

Acute dermal toxicity

No adverse effects anticipated by skin absorption.
The dermal LD50 has not been determined.
Typical for this family of materials.
LD50, Rabbit, > 2 000 mg/kg Estimated.

Information for components:

Acrylonitrile/butadiene/styrene resin

The dermal LD50 has not been determined.

Acute inhalation toxicity

No adverse effects are anticipated from single exposure to dust. Vapors released during thermal processing may cause respiratory irritation.
The LC50 has not been determined.,

Information for components:

Acrylonitrile/butadiene/styrene resin

The LC50 has not been determined.

Skin corrosion/irritation

Prolonged contact is essentially nonirritating to skin.
Mechanical injury only.
Under normal processing conditions, material is heated to elevated temperatures; contact with the material may cause thermal burns.

Serious eye damage/eye irritation

Solid or dust may cause irritation or corneal injury due to mechanical action.
Elevated temperatures may generate vapor levels sufficient to cause eye irritation. Effects may include discomfort and redness.

Sensitization For skin sensitization:

No relevant data found.

For respiratory sensitization:

No relevant data found.

Specific Target Organ Systemic Toxicity (Single Exposure)

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

Aspiration Hazard

Based on physical properties, not likely to be an aspiration hazard.

Chronic toxicity (represents longer term exposures with repeated dose resulting in chronic/delayed effects - no immediate effects known unless otherwise noted)

Specific Target Organ Systemic Toxicity (Repeated Exposure)

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Additives are encapsulated in the product and are not expected to be released under normal processing conditions or foreseeable emergency

Carcinogenicity No relevant data found.

Teratogenicity No relevant data found.

Reproductive toxicity

No relevant data found.

Mutagenicity No relevant data found.

11.2 Information on other hazards

Endocrine disrupting properties

Endocrine disrupting potential:

The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Section 12: Ecological information

12.1 Toxicity

Acute toxicity to fish Not expected to be acutely toxic, but material in pellet or bead form may mechanically cause adverse effects if ingested by waterfowl or aquatic life.

12.2 Persistence and degradability

Biodegradability This water-insoluble polymeric solid is expected to be inert in the environment. Surface photodegradation is expected with exposure to sunlight. No appreciable biodegradation is expected.

12.3 Bioaccumulative potential

Bioaccumulation No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

12.4 Mobility in soil

In the terrestrial environment, material is expected to remain in the soil.
In the aquatic environment, material will sink and remain in the sediment.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
No relevant data found.

12.6 Endocrine disrupting properties

Endocrine disrupting potential:
The substance/mixture does not contain components considered to have endocrine disrupting properties according

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to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or
Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects No relevant data found.

Section 13: Disposal considerations

13.1 Waste treatment methods

For uncontaminated material the disposal options include mechanical and chemical recycling or energy recovery. In some countries landfill is also allowed. For contaminated material the options remain the same, although additional evaluation is required. For all countries the disposal methods must be in compliance with national and provincial laws and any municipal or local by-laws. All disposal methods must be in compliance with the EU framework Directives 2008/98/EC and their subsequent adaptations, as implemented in National Laws and Regulations, as well as EU Directives dealing with priority waste streams. Transboundary shipment of wastes must be in compliance with Regulation (EC) No 1013/2006 and subsequent modifications.

The definitive assignment of this material to the appropriate EWC group and thus its proper EWC code will depend on the use that is made of this material. Contact the authorized waste disposal services.

Section 14: Transport information

14.1 UN-number

Not regulated as a dangerous good

14.2 UN proper shipping name

Not regulated as a dangerous good

14.3 Transport hazard class(es)

Not regulated as a dangerous good

14.4 Packing group

Not regulated as a dangerous good

14.5 Environmental hazards

Not regulated as a dangerous good

14.6 Special precautions for user

Not applicable

14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

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Section 15: Regulatory information

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

REACH Regulation (EC) No 1907/2006

This product contains only components that have been either registered, are exempt from registration, are regarded as registered or are not subject to registration according to Regulation (EC) No. 1907/2006 (REACH). Polymers are exempted from registration under REACH. All relevant starting materials and additives have been either registered, or are exempt from registration according to Regulation (EC) No. 1907/2006 (REACH). The aforementioned indications of the REACH registration status are provided in good faith and believed to be accurate as of the effective date shown above.

However, no warranty, express or implied, is given. It is the buyer's/user's responsibility to ensure that his/her understanding of the regulatory status of this product is correct.

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Listed in Regulation: Not applicable.

Wassergefährdungsklasse – Deutschland

nwg: not water endangering

Further information

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

15.2 Chemical safety assessment

No Chemical Safety Assessment has been carried out for this substance/mixture.

Section 16: Other information

Full text of other abbreviations

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; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organization for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

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Further information

The information provided in this Safety Data Sheet is correct to the best of manufacturers knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

This document is only valid pro prime products, natural.

With best regards

Universal Polythex Kunststoffe GmbH