

# SAFETY DATA SHEET

according to Regulation (EC) No 1907/2006, Regulation (EU) No 2015/830, Regulation (EC) No 1272/2008



## ABS

Revision Date 08.12.2015

Version 1.0

EU / EN

### SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/ UNDERTAKING

#### 1.1 Product identifier

Trade name : ABS, brands: ABS 1030-31, ABS 2525-31, ABS 1525-31, ABS 1525-32, ABS 2020-32, ABS 2020-31, ABS 2020-31M, ABS 1515-31, ABS 1530-31, ABS 2802-31, ABS-2020-31 PR, ABS 2806-31

Chemical name : 2-Propenenitrile, polymer with 1,3-butadiene and styrene  
CAS-No : 9003-56-9  
EC-No : No data available.  
Registration number : Not applicable (the substance is a polymer).

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

Use of the Substance/ Mixture : Raw materials for industry

#### 1.3 Details of the supplier of the safety data sheet

Company : Trade House LLC «Plastik»

Telephone : +7 (495) 201-03-33

E-mail address : info@td-plastic.ru

Only representative : Not applicable.

Telephone : Not applicable.

E-mail address : Not applicable.

#### 1.4 Emergency telephone number

**Austria:** Poison Control Centre, Tel.: (+43)-1-406-43-43;

**Belgium:** Belgisch Antigifcentrum, Tel.: 070/245-245;

**Hungary:** Az Egészségügyi Toxikológiai Tájékoztató Szolgálat elérhetőségei Tel: (+36)-80-201-199;

Note: please, consult with your local/national competent authorities for the emergency number in your country.

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

##### Classification according to REGULATION (EC) No 1272/2008

The product does not need to be classified in accordance with REGULATION (EC) No 1272/2008.  
Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

#### 2.2 Label elements

##### Labeling according to REGULATION (EC) No 1272/2008

The product does not need to be labelled in accordance with REGULATION (EC) No 1272/2008.  
Not a hazardous substance or mixture according to REGULATION (EC) No 1272/2008.

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### 2.3 Other hazards

No data available.

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

The product is a polymer within the meaning of the REACH Regulation (1907/2006/EC).  
The following table contains the main constituent at the top.

Chemical Name	Concentration, wt. %	CAS-No	EC-No / Registration number	Index-No	GHS
Poly(acrylonitrile-co-butadiene-co-styrene)	To 100	9003-56-9	No data available	No data available	Not classification
Styrene	0,05	100-42-5	202-851-5	601-026-00-0	Flam. Liq. 3, H226; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Acute Tox. 4, H332; Repr. 2, H361d; STOT RE 1, H372
Acrylonitrile	0,001	107-13-1	203-466-5	608-003-00-4	Flam. Liq. 2, H225; Acute Tox. 3, H301; Acute Tox. 3, H311; Skin Irrit. 2, H315; Skin Sens. 1, H317; Eye Dam. 1, H318; Acute Tox. 3, H331; STOT SE 3, H335; Carc. 1B, H350; Aquatic Chronic 2, H411

For the full text of the H-phrases mentioned in this Section, see Section 16.

## SECTION 4: FIRST AID MEASURES

### 4.1 Description of first aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). First aider needs to protect himself. Never give anything by mouth to an unconscious person.
- Inhalation : If breathed in, move person into fresh air. Keep patient warm and at rest. If symptoms persist, call a physician.
- Skin contact : If skin irritation persists, call a physician.
- Eye contact : Protect unharmed eye. If easy to do, remove contact lens, if worn. In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice in case of need.
- Ingestion : Rinse mouth with water. Consult a physician in case of need.

### 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

No data available.

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### SECTION 5: FIRE-FIGHTING MEASURES

#### 5.1 Extinguishing Media

Suitable extinguishing media : Use sand, water, carbon dioxide and foam fire extinguishers of various types. fixed fire protection equipment- fire hydrants, sprinkler plant.

#### 5.2 Special hazards arising from the substance or mixture

Specific hazards : Hazardous decomposition products may be formed under fire conditions (see section 10). Exposure to decomposition products may be a hazard to health.

#### 5.3 Advice fire fighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

Further information : Standard procedure for chemical fires. Avoid breathing vapours. Eliminate all ignition source Collect contaminated fire extinguishing water separately. Extinguish a maximum range. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.

### SECTION 6: ACCIDENTAL RELEASE MEASURES

#### 6.1 Personal precautions, protective equipment and emergency procedure

Refer to protective measures listed in sections 7 and 8. Use personal protective equipment. Ensure adequate ventilation, especially in confined areas. Evacuate personnel to safe areas. Avoid dust formation.

#### 6.2 Environmental precautions

Do not flush into surface water or sanitary sewer system. If the product contaminates rivers and lakes or drains inform respective authorities. Avoid release to the environment.

#### 6.3 Methods and materials for containment and cleaning up

Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

#### 6.4 Reference to other sections

See Section 7, 8, 11, 12 and 13.

### SECTION 7: HANDLING AND STORAGE

#### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Avoid contact with skin and eyes. Avoid formation of dust. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from sources of ignition - No smoking. Avoid exposure - obtain special instructions before use.

Advice on protection against fire and explosion : Normal measures for preventive fire protection. Keep away from heat and sources of ignition.

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### 7.2 Conditions for safe storage including any incompatibilities

Requirements for storage : Store in a place accessible by authorized persons only. Keep areas and containers locked up or in an area accessible only to qualified or authorized persons. Avoid release moisture. Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Store in paper, polyethylene, polypropylene PVE or SV, flexible containers.

Advice on common storage : Keep away from food, drink and animal feeding stuffs. Do not store near oxidizing agents, strong acids and bases, open flame and heat.

Storage period : 2 years.

Storage temperature : At (-60) to (+50) °C

### 7.3 Specific end use(s)

No data available.

## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### 8.1 Control parameters

Components	CAS-No	Control parameters	Basis	Country
Styrene	100-42-5	STEL: 80 ppm, 340 mg/m <sup>3</sup> TWA: 20 ppm, 85 mg/m <sup>3</sup>	OEL-AT	Austria
Styrene	100-42-5	TWA: 40 ppm, 173 mg/m <sup>3</sup> STEL: 80 ppm, 346 mg/m <sup>3</sup>	MB 14.3.2002	Belgium
Acrylonitrile	107-13-1	TWA: 2 ppm, 4,4 mg/m <sup>3</sup>	MB 14.3.2002	Belgium
Styrene	100-42-5	MAK: 20 ppm, 86 mg/m <sup>3</sup> AGW: 20 ppm, 86 mg/m <sup>3</sup>	TRGS 900	Germany
Styrene	100-42-5	STEL (CK): 50 mg/m <sup>3</sup> TWA (AK): 50 mg/m <sup>3</sup>	EüM-SzCsM 25/2000	Hungary
Acrylonitrile	107-13-1	MK: 4,3 mg/m <sup>3</sup>	EüM-SzCsM 25/2000	Hungary
Styrene	100-42-5	NDS: 50 mg/m <sup>3</sup> NDSch: 100 mg/m <sup>3</sup>	Dz.U. 2014 poz. 817	Poland
Acrylonitrile	107-13-1	NDS: 2 mg/m <sup>3</sup> NDSch: 10 mg/m <sup>3</sup>	Dz.U. 2014 poz. 817	Poland

### PNEC (Predicted No effect Concentration)

#### PNEC aqua – freshwater:

Styrene : 0,028 mg/l  
Acrylonitrile : 0,017 mg/l

#### PNEC aqua – marine water:

Styrene : 0,014 mg/l  
Acrylonitrile : 0,017 mg/l

#### PNEC aqua – intermittent releases:

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Styrene : 0,04 mg/l

### PNEC sediment – freshwater:

Styrene : 0,614 mg/kg sediment dw  
Acrylonitrile : 0,00188 mg/kg sediment dw

### PNEC sediment – marine water:

Styrene : 0,307 mg/kg sediment dw

### PNEC soil:

Styrene : 0,2 mg/kg soil dw  
Acrylonitrile : 0,00268 mg/kg soil dw

### PNEC STP:

Styrene : 5 mg/l  
Acrylonitrile : 5 mg/l

### **DNEL (Derived No Effect Level)/DMEL (Derived Minimal Effect Level)**

#### **Worker**

##### Acute exposure local effects, inhalation:

Styrene : 306 mg/m<sup>3</sup>  
Acrylonitrile : 10 mg/m<sup>3</sup>

##### Acute exposure systemic effects, inhalation:

Styrene : 289 mg/m<sup>3</sup>

##### Long-term exposure systemic effects, dermal:

Styrene : 406 mg/kg bw/day  
Acrylonitrile : 1,4 mg/kg bw/day

##### Long-term exposure systemic effects, inhalation:

Styrene : 85 mg/m<sup>3</sup>  
Acrylonitrile : 2,7 mg/m<sup>3</sup>

##### Long-term exposure local effects, inhalation:

Acrylonitrile : 1,8 mg/m<sup>3</sup>

#### **General population**

##### Acute exposure systemic effects, inhalation:

Styrene : 174,25 mg/m<sup>3</sup>  
Acrylonitrile : 3,3 mg/m<sup>3</sup>

##### Acute exposure local effects, inhalation:

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Styrene : 182,75 mg/m<sup>3</sup>

Acrylonitrile : 3,3 mg/m<sup>3</sup>

### Long-term exposure systemic effects, dermal:

Styrene : 343 mg/kg bw/day

Acrylonitrile : 0,009 mg/kg bw/day

### Long-term exposure systemic effects, inhalation:

Styrene : 10,2 mg/m<sup>3</sup>

Acrylonitrile : 0,1 mg/m<sup>3</sup>

### Long-term exposure systemic effects, oral:

Styrene : 2,1 mg/kg bw/day

Acrylonitrile : 0,009 mg/kg bw/day

### Long-term exposure local effects, inhalation:

Acrylonitrile : 0,06 mg/m<sup>3</sup>

## **8.2 Exposure controls**

### **Engineering measures**

Provide sufficient air exchange and/or exhaust in work rooms. Highly effective exhaust ventilation.

### **Personal protective equipment**

Respiratory protection : Half mask with a particle filter P1 (EN 143), isolating full face mask and compressed-air line breathing apparatus.

Remarks : Use respirators and components tested and approved under appropriate government standards CEN (EU).

### Hand protection

Material : Rubber gloves, combined gloves

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer.

Eye protection : Tightly fitting safety goggles.

Remarks : Use equipment for eye protection tested and approved under appropriate government standards such as EN 166 (EU).

Skin and body protection : Impervious clothing made of cotton or cloth.

Remarks : Choose body protection according to the amount and concentration of the dangerous substance at the work place.

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**Hygiene measures** : Handle in accordance with good industrial hygiene and safety practice.  
General industrial hygiene practice.  
Avoid formation of dust.  
When using do not eat, drink or smoke.  
Wash hands before breaks and at the end of workday.  
Follow the skin protection plan.  
Wash contaminated clothing before re-use.

### **Environmental exposure controls**

No data available.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1 Information on basic physical and chemical properties

Form : Solid, granules from 2 to 5 mm.  
Colour : Various (depending on the dye).  
Odour : Characteristic.  
Odor threshold : No data available.  
Flash point : No data available.  
Lower explosion limit : 31 g/m<sup>3</sup>  
Upper explosion limit : No data available.  
Explosive properties : Non-explosive.  
Flammability : Not flammable.  
Oxidizing properties : Non-oxidizing.  
Self-ignition temperature : 395 – 450 °C  
Melting point/range : 93 – 95 °C  
pH : No data available.  
Boiling point/boiling range : No data available.  
Vapor pressure : No data available.  
Density : 1,03 – 1,05 kg/l  
Bulk density : No data available.  
Water solubility : Insoluble.  
Miscibility with water (15 °C) : No data available.  
Partition coefficient: n-octanol/water : No data available.  
Solubility in other solvents : Methyl ethyl ketone, acetone, at 20 °C - cyclohexanone, ethyl acetate, butyl acetate, chloroform  
Viscosity, dynamic : No data available.  
Viscosity, kinematic : No data available.  
Relative vapor density : No data available.  
Evaporation rate : No data available.  
Decomposition temperature : No data available.

### 9.2 Other information

Ignition temperature : 285 – 370 °C

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

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No data available.

### 10.2 Chemical stability

No decomposition if stored and applied as directed.

### 10.3 Possibility of hazardous reactions

No data available.

### 10.4 Conditions to avoid

Heat, open flame.

### 10.5 Incompatible materials

Materials to avoid : Oxidizing agents, strong acids and bases.

### 10.6 Hazardous decomposition products

Hazardous decomposition : Build-up of dangerous/toxic fumes possible in cases of products  
At 220 ° C - styrene vapors, acrylonitrile vapors, carbon oxides, hydrogen cyanide.

Thermal decomposition : No data available.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects

#### Acute toxicity

##### Acute oral toxicity

Styrene : LD<sub>50</sub> (hamster): > 6 000 mg/kg bw  
Acrylonitrile : LD<sub>50</sub> (guinea pig): 50 – 85 mg/kg bw

##### Acute inhalation toxicity

Styrene : LC<sub>50</sub> (rat): 11 700 – 11 900 mg/m<sup>3</sup>  
Exposure time: 4 hours.  
Acrylonitrile : LC<sub>50</sub> (rat): 2 050 mg/m<sup>3</sup>  
Exposure time: 4 hours.

##### Acute dermal toxicity

Styrene : LD<sub>50</sub> (rat): > 2 000 mg/kg bw  
Acrylonitrile : LD<sub>50</sub> (rat): > 200 mg/kg bw

##### Acute toxicity (other routes of administration)

No data available.

#### Skin corrosion / irritation

Skin irritation : Not irritating.

#### Serious eye damage / eye irritation

Eye irritation : Not irritating.



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### Sensitization of the respiratory / skin

Skin sensitization : Non skin sensitizing.  
Respiratory sensitization : Non respiratory sensitizing.

### Mutagenicity

No mutagenic effect.

### Carcinogenicity

No carcinogenic effect.

### Reproductive toxicity

No reproductive effect.

### Teratogenicity

No data available.

### Specific target organ toxicity after single exposure

No data available.

### Specific target organ toxicity after repeated exposure (sub-acute / sub-chronic)

Repeated dose toxicity: (sub-acute/ sub-chronic)

No data available.

### Aspiration hazard

Not applicable.

### Neurological effects

No data available.

### Toxicology, metabolism, distribution

No data available.

## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Toxicity to fish:

Styrene : LC<sub>50</sub> (Pimephales promelas): 10 mg/l  
Exposure time: 96 h  
Acrylonitrile : LC<sub>50</sub> (Cyprinodon variegatus): 8,6 mg/l  
Exposure time: 96 h

#### Toxicity to daphnia and other aquatic invertebrates:

Styrene : LC<sub>50</sub> (Daphnia magna): 4,7 mg/l  
Exposure time: 48 h

#### Toxicity to aquatic plants:

Styrene : LC<sub>50</sub> (Selenastrum capricornutum): 4,9 mg/l  
Exposure time: 72 h

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Long-term study fish/daphnia and other aquatic invertebrates/aquatic plants:

Styrene : NOEC (Daphnia magna): 1,01 mg/l  
Exposure time: 21 days  
Acrylonitrile : NOEC (Daphnia magna): 2 mg/l  
Exposure time: 21 days

### 12.2 Persistence and degradability

Biodegradability : No data available.

### 12.3 Bioaccumulation potential

No data available.

### 12.4 Mobility in soil

No data available.

### 12.5 Results of PBT assessment and vPvB

Not PBT and no vPvB.

### 12.6 Other adverse effects

Additional ecological information : The product should not be allowed to enter drains, water courses or the soil.

## SECTION 13: DISPOSAL CONSIDERATIONS

### 13.1 Waste treatment methods

Advice on disposal and packaging : Disposal:  
In accordance with local and national regulations. Do not dispose of waste into sewer. This material and its container must be disposed of in a safe way. Do not dispose of together with household waste. Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: TRANSPORT INFORMATION

### ADR

Not dangerous goods.

### RID

Not dangerous goods.

### IATA

Not dangerous goods.

### IMDG

Not dangerous goods.

### Special precautions for the user

See Section 6, 7 and 8.

## SECTION 15: REGULATORY INFORMATION

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

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### **mixture**

Special labelling of certain : Restricted to professional users.  
mixtures

Seveso Directive : Directive 2012/18/EU does not apply.  
(2012/18/EU)

### **15.2 CSA**

The Chemical Safety Assessment was not undertaken. The product is a polymer.

## SECTION 16: OTHER INFORMATION

### Hazard statements:

- H225 : Highly flammable liquid and vapour.
- H226 : Flammable liquid and vapour.
- H301 : Toxic if swallowed.
- H311 : Toxic in contact with skin.
- H315 : Causes skin irritation.
- H317 : May cause an allergic skin reaction.
- H318 : Causes serious eye damage.
- H319 : Cause serious eye irritation.
- H331 : Toxic if inhaled.
- H332 : Harmful if inhaled.
- H335 : May cause respiratory irritation.
- H350 : May cause cancer.
- H361d : Suspected of damaging the unborn child.
- H372 : Causes damage to organs through prolonged or repeated exposure.
- H411 : Toxic to aquatic life with long lasting effects.

The information provided in this Safety Data Sheet is correct to the best of our 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.