

## ABS 1400 LW

Version number: 2.0

### SECTION 1: Identification

#### 1.1 Product identifier

**Trade name** ABS 1400 LW  
**CAS number** not relevant (mixture)

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

**Relevant identified uses** Filament

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

Jabil Inc. Telephone: 612 225-2692  
 102 N Jonathan Blvd  
 Chaska, Minnesota, MN 55318  
 United States

**e-mail (competent person)** GHS@crc-us.com

#### 1.4 Emergency telephone number

Poison center		
Country	Name	Telephone
	CHEMTREC (International)	+1 202-483-7616
United States	CHEMTREC USA	(800) 424-9300

As above or next toxicological information centre.

### SECTION 2: Hazard(s) identification

#### 2.1 Classification of the substance or mixture

**Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

This mixture does not meet the criteria for classification.

#### 2.2 Label elements

**Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)**

not required

## 2.3 Other hazards

Molten material may cause thermal burns.

May form combustible dust concentrations in air if small particles are generated during further processing,

handling, machining, or by other means. Product, as shipped, is not a combustible dust. To reduce the risk for dust explosion do not permit dust to accumulate. If permitted to accumulate, these fines or dust can, under certain conditions, pose an explosion hazard.

### Results of PBT and vPvB assessment

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

not relevant (mixture)

### 3.2 Mixtures

#### Description of the mixture

Name of substance	Identifier
methylmethacrylate-acrylonitrile-butadiene-styrene copolymer	CAS No 9010-94-0
acrylonitrile styrene copolymer	CAS No 9003-54-7
talc	CAS No 14807-96-6

The specific exact percentage (concentration) of composition has been withheld as a trade secret.

## SECTION 4: First-aid measures

### 4.1 Description of first- aid measures

#### General notes

In all cases of doubt, or when symptoms persist, seek medical advice.

#### Following inhalation

Provide fresh air.

After inhalation of decomposition products, remove the affected person to a source of fresh air and keep calm.

#### Following skin contact

Wash with plenty of soap and water.

After contact with the molten product, cool rapidly with cold water.

Call a physician immediately.

## **Following eye contact**

Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.  
If eye irritation persists: Get medical advice/attention.

## **Following ingestion**

Rinse mouth. Do not induce vomiting.  
Get medical advice/attention if you feel unwell.

## **Notes for the doctor**

none

## **4.2 Most important symptoms and effects, both acute and delayed**

These information are not available.

## **4.3 Indication of any immediate medical attention and special treatment needed**

none

## **SECTION 5: Fire-fighting measures**

### **5.1 Extinguishing media**

#### **Suitable extinguishing media**

water spray, foam, alcohol resistant foam, fire extinguishing powder

#### **Unsuitable extinguishing media**

water jet

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

Hazardous decomposition products: Section 10.  
Deposited combustible dust has considerable explosion potential.

#### **Hazardous combustion products**

nitrogen oxides (NO<sub>x</sub>), carbon monoxide (CO), carbon dioxide (CO<sub>2</sub>), hydrogen cyanide (HCN, prussic acid), hydrocarbons, irritant vapors / gases

### **5.3 Advice for firefighters**

In case of fire and/or explosion do not breathe fumes.  
Co-ordinate firefighting measures to the fire surroundings.  
Do not allow firefighting water to enter drains or water courses.  
Collect contaminated firefighting water separately.  
Fight fire with normal precautions from a reasonable distance.

#### **Special protective equipment for firefighters**

chemical protection suit, self-contained breathing apparatus (SCBA)

## SECTION 6: Accidental release measures

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

#### For non-emergency personnel

Ventilate affected area.

Control of dust.

Eliminate all ignition sources if safe to do so.

Do not breathe dust.

Do not get in eyes, on skin, or on clothing.

Wearing of suitable protective equipment (including personal protective equipment referred to under Section 8 of the safety data sheet) to prevent any contamination of skin, eyes and personal clothing.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

### 6.2 Environmental precautions

Keep away from drains, surface and ground water.

Retain contaminated washing water and dispose of it.

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

#### Advices on how to contain a spill

take up mechanically

#### Advices on how to clean up a spill

Take up mechanically.

Collect spillage.

#### Other information relating to spills and releases

Place in appropriate containers for disposal.

Ventilate affected area.

### 6.4 Reference to other sections

Hazardous combustion products: see section 5.

Personal protective equipment: see section 8.

Incompatible materials: see section 10.

Disposal considerations: see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation.

Keep away from sources of ignition - No smoking.

#### Specific notes/details

None.

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## Measures to protect the environment

Avoid release to the environment.

## Advice on general occupational hygiene

Do not eat, drink and smoke in work areas.

Wash hands after use.

Preventive skin protection (barrier creams/ointments) is recommended.

Remove contaminated clothing and protective equipment before entering eating areas.

## 7.2 Conditions for safe storage, including any incompatibilities

### Flammability hazards

None.

### Incompatible substances or mixtures

Incompatible materials: see section 10.

### Protect against external exposure, such as

heat, humidity

### Consideration of other advice

Keep away from food, drink and animal feedingstuffs.

Store in a dry place. Store in a closed container.

### Ventilation requirements

Provision of sufficient ventilation.

### Packaging compatibilities

Keep only in original container.

## 7.3 Specific end use(s)

No information available.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Notation	Source
US	talc	14807-96-6	PEL (CA)	1				+asb, fib/cm <sup>3</sup>	Cal/OSHA PEL
US	talc	14807-96-6	PEL		0.1		1 (30 min)	no_asb, fib/ml	29 CFR 1910.1000
US	talc	14807-96-6	PEL (CA)		2			no_asb, r, less1sili ca	Cal/OSHA PEL

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Occupational exposure limit values (Workplace Exposure Limits)									
Country	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m <sup>3</sup> ]	STEL [ppm]	STEL [mg/m <sup>3</sup> ]	Notation	Source
US	talca	14807-96-6	PEL	706				partml, noAsb_less1Sil, r	29 CFR 1910.1000
US	talca	14807-96-6	REL		2 (10 h)			r, less1silica, no_asb	NIOSH REL

### Notation

+asb containing asbestos fibers

fib/cm<sup>3</sup> fibers/cm<sup>3</sup>

fib/ml fibers/ml

less1silica with less than 1 % free crystalline silica

no\_asb containing no asbestos fibers

noAsb\_less1Sil contains no asbestos and less than 1% free crystalline silica

partml particles/ml

r respirable fraction

STEL short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period (unless otherwise specified)

TWA time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified)

Relevant DNELs of components of the mixture						
Name of substance	CAS No	Endpoint	Threshold level	Protection goal, route of exposure	Used in	Exposure time
talca	14807-96-6	DNEL	2.16 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - systemic effects
talca	14807-96-6	DNEL	3.6 mg/m <sup>3</sup>	human, inhalatory	worker (industry)	chronic - local effects
talca	14807-96-6	DNEL	43.2 mg/kg bw/day	human, dermal	worker (industry)	chronic - systemic effects
talca	14807-96-6	DNEL	1.08 mg/m <sup>3</sup>	human, inhalatory	consumer (private households)	chronic - systemic effects
talca	14807-96-6	DNEL	1.8 mg/m <sup>3</sup>	human, inhalatory	consumer (private households)	chronic - local effects
talca	14807-96-6	DNEL	21.6 mg/kg bw/day	human, dermal	consumer (private households)	chronic - systemic effects

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Relevant DNELs of components of the mixture						
Name of substance	CAS No	End-point	Threshold level	Protection goal, route of exposure	Used in	Exposure time
talc	14807-96-6	DNEL	160 mg/kg bw/day	human, oral	consumer (private households)	chronic - systemic effects

Relevant PNECs of components of the mixture				
Name of substance	CAS No	Endpoint	Threshold level	Environmental compartment
talc	14807-96-6	PNEC	598 mg/l	freshwater
talc	14807-96-6	PNEC	141.3 mg/l	marine water
talc	14807-96-6	PNEC	31.33 mg/kg	freshwater sediment
talc	14807-96-6	PNEC	3.13 mg/kg	marine sediment

### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Wear suitable gloves.

Chemical protection gloves are suitable, which are tested according to EN 374.

Check leak-tightness/impermeability prior to use.

In the case of wanting to use the gloves again, clean them before taking off and air them well.

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

Use heat resistant gloves when handling hot / molten product.

##### Other protection measures

Wear heat-resistant protective clothing when handling hot/molten product.

##### Respiratory protection

In case of inadequate ventilation wear respiratory protection.

##### Environmental exposure controls

Use appropriate container to avoid environmental contamination.

Keep away from drains, surface and ground water.

**SECTION 9: Physical and chemical properties**

**9.1 Information on basic physical and chemical properties**

**Appearance**

Physical state	solid
Form	Filament
Color	Different according to coloring
Odor	Nearly odorless
Odor threshold	these information are not available

**Other safety parameters**

pH (value)	these information are not available
Melting point/freezing point	these information are not available
Initial boiling point and boiling range	these information are not available
Flash point	not applicable
Evaporation rate	these information are not available
Flammability (solid, gas)	this material is combustible, but will not ignite readily
Explosion limits of dust clouds	not determined
Vapor pressure	these information are not available
Density	these information are not available
Vapor density	these information are not available
Relative density	these information are not available

**Solubility(ies)**

Water solubility	insoluble
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**Partition coefficient**

n-octanol/water (log KOW)	these information are not available
Auto-ignition temperature	not relevant (Solid matter)
Decomposition temperature	these information are not available

**Viscosity**

Kinematic viscosity	not relevant (solid matter)
Dynamic viscosity	not relevant (solid matter)



Explosive properties

not explosive

Oxidizing properties

shall not be classified as oxidizing

## 9.2 Other information

None

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

This material is not reactive under normal ambient conditions.

### 10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

### 10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

The product in the delivered form is not dust explosion capable; the enrichment of fine dust however leads to the danger of dust explosion.

### 10.5 Incompatible materials

oxidizers

### 10.6 Hazardous decomposition products

Hydrocarbons.

Aldehyde.

Ketone.

Hazardous combustion products: see section 5.

## SECTION 11: Toxicological information

### 11.1 Information on toxicological effects

#### Classification procedure

If not otherwise specified the classification is based on:

Ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

This mixture does not meet the criteria for classification.

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## Acute toxicity

Acute toxicity of components of the mixture						
Name of substance	CAS No	Exposure route	Endpoint	Value	Species	Method
talc	14807-96-6	oral	LD50	>5,000 mg/kg	rat	OECD Guideline 423
talc	14807-96-6	dermal	LD50	>2,000 mg/kg	rat	OECD Guideline 402
talc	14807-96-6	inhalation: dust/mist	LC0	2.1 mg/l/4h	rat	

## Skin corrosion/irritation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Serious eye damage/eye irritation

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Respiratory or skin sensitization

### Skin sensitization

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

### Respiratory sensitization

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Germ cell mutagenicity

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Carcinogenicity

### IARC Monographs

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
Name of substance	CAS No	Classification	Remarks
ethylbenzene	100-41-4	2B	
quartz	14808-60-7	1	in the form of quartz or cristobalite
acrylonitrile	107-13-1	2B	
talc	14807-96-6	3	not containing asbestos or asbestiform fibres

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IARC Monographs on the Evaluation of Carcinogenic Risks to Humans			
Name of substance	CAS No	Classification	Remarks
talc	14807-96-6	2B	perineal use of
acrylonitrile styrene copolymer	9003-54-7	3	

## Legend

- 1 Carcinogenic to humans
- 2B Possibly carcinogenic to humans
- 3 Not classifiable as to carcinogenicity in humans

## National Toxicology Program (United States)

National Toxicology Program (United States): Report on Carcinogens			
Name of substance	CAS No	Classification	Number
acrylonitrile	107-13-1	Reasonably anticipated to be a human carcinogen	2nd Report on Carcinogens

## OSHA Carcinogens

29 CFR 1910/1915/1926 Occupational Safety and Health Standards: Toxic and Hazardous Substances (carcinogens)		
Name of substance	CAS No	Type of registration
acrylonitrile	107-13-1	GI §1910.1045, SE §1915.1045, CI §1926.1145

## Legend

- CI §1926.1145 Construction Industry (29 CFR 1926.1145)§us\_oshacarc\_1\_2017
- GI §1910.1045 General Industry (29 CFR 1910.1045)§us\_oshacarc\_1\_2017
- SE §1915.1045 Shipyard Employment (29 CFR 1915.1045)§us\_oshacarc\_1\_2017

## Reproductive toxicity

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - single exposure

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Specific target organ toxicity - repeated exposure

Classification could not be established because:  
Data are lacking, inconclusive, or conclusive but not sufficient for classification.

## Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity (acute)**

Test data are not available for the complete mixture.

**Aquatic toxicity (chronic)**

Test data are not available for the complete mixture.

**12.2 Persistence and degradability**

**Biodegradation**

Data are not available.

**Persistence**

Data are not available.

**12.3 Bioaccumulative potential**

Test data are not available for the complete mixture.

**Bioaccumulative potential of components of the mixture**

Bioaccumulative potential of components of the mixture			
Name of substance	CAS No	BCF	Log KOW
talc	14807-96-6		-9.4 (pH value: 7, 25 °C)

**12.4 Mobility in soil**

Data are not available.

**12.5 Results of PBT and vPvB assessment**

This mixture does not contain any substances that are assessed to be a PBT or a vPvB.

**12.6 Other adverse effects**

**Endocrine disrupting potential**

None of the ingredients are listed.

**Remarks**

Wassergefährdungsklasse, WGK (water hazard class): 1

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### Sewage disposal-relevant information

Do not empty into drains.

#### Waste treatment of containers/packages

Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions.

## SECTION 14: Transport information

- 14.1 UN number** not subject to transport regulations
- 14.2 UN proper shipping name** -
- 14.3 Transport hazard class(es)**
- Class** -
- 14.4 Packing group** -
- 14.5 Environmental hazards** non-environmentally hazardous acc. to the dangerous goods regulations
- 14.6 Special precautions for user**  
There is no additional information.
- 14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**  
The cargo is not intended to be carried in bulk.
- 14.8 Information for each of the UN Model Regulations**
- Transport of dangerous goods by road or rail (49 CFR US DOT)**  
Not subject to transport regulations.
- International Maritime Dangerous Goods Code (IMDG)**  
Not subject to IMDG.
- International Civil Aviation Organization (ICAO-IATA/DGR)**  
Not subject to ICAO-IATA.

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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations specific for the product in question

#### National regulations (United States)

**Toxic Substance Control Act (TSCA)** all ingredients are listed or exempt from listing

#### New Jersey Worker and Community Right to Know Act

<b>Right to Know Hazardous Substance List</b>			
Name acc. to inventory	CAS No	Remarks	Classifications
ETHYL BENZENE (BENZENE, ETHYL-)	100-41-4		CA F3.
SILICA, QUARTZ (QUARTZ (SiO <sub>2</sub> ), SILICA, CRYSTALLINE-QUARTZ)	14808-60-7		CA.
acrylonitrile	107-13-1		CA TE F3 R2.
talc	14807-96-6	containing no asbestos fibers	
talc	14807-96-6	containing asbestos fibers	CA.
LOPAC (2-PROPENENITRILE, POLYMER with ETHENYLBENZENE, STYRENE-ACRYLONITRILE COPOLYMERS)	9003-54-7		

**Legend**

- CA Carcinogenic
- F3 Flammable - Third Degree
- R2 Reactive - Second Degree
- TE Teratogenic

#### California Environmental Protection Agency (Cal/EPA): Proposition 65 - Safe Drinking Water and Toxic Enforcement Act of 1987

<b>Proposition 65 List of chemicals</b>			
Name acc. to inventory	CAS No	Remarks	Type of the toxicity
ethylbenzene	100-41-4		cancer
acrylonitrile	107-13-1		cancer
Talc containing asbestiform fibers	14807-96-6	Talc containing asbestiform fibers	cancer

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## Industry or sector specific available guidance(s)

### NPCA-HMIS® III

Hazardous Materials Identification System.  
American Coatings Association.

Category	Rating	Description
Chronic	*	chronic (long-term) health effects may result from repeated overexposure
Health	0	no significant risk to health
Flammability	1	material that must be preheated before ignition can occur
Physical hazard	0	material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive
Personal protection	-	

### NFPA® 704

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States).

Category	Degree of hazard	Description
Flammability	1	material that must be preheated before ignition can occur
Health	0	material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material
Instability	0	material that is normally stable, even under fire conditions
Special hazard		

## 15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this mixture by the supplier.

### SECTION 16: Other information, including date of preparation or last revision

Date of preparation: 2019-03-01

Date of last revision: 2019-05-28.

### Abbreviations and acronyms

Abbreviations and acronyms	
Abbr.	Descriptions of used abbreviations
29 CFR 1910.1000	29 CFR 1910.1000, Tables Z-1, Z-2, Z-3 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
49 CFR US DOT	49 CFR § 40 U.S. Department of Transportation
BCF	Bioconcentration factor
Cal/OSHA PEL	California Division of Occupational Safety and Health (Cal/OSHA): Permissible Exposure Limits (PELs)

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<b>Abbreviations and acronyms</b>	
<b>Abbr.</b>	<b>Descriptions of used abbreviations</b>
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
IARC Mono-graphs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
IMDG	International Maritime Dangerous Goods Code
log KOW	n-Octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant")
NIOSH REL	National Institute for Occupational Safety and Health (NIOSH): Recommended Exposure Limits (RELs)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	Permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
STEL	Short-term exposure limit
TWA	Time-weighted average
vPvB	Very Persistent and very Bioaccumulative

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

OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200.

Transport of dangerous goods by road or rail (49 CFR US DOT).

International Maritime Dangerous Goods Code (IMDG).

Dangerous Goods Regulations (DGR) for the air transport (IATA).

### **Classification procedure**

Physical and chemical properties.

Health hazards.

Environmental hazards.

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).



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## Responsible for the safety data sheet

Chemical Regulatory Compliance Company Telephone: +1 (630) 410-1660  
Chicago, IL e-Mail: GHS@crc-us.com  
USA Website: www.crc-us.com

## Disclaimer

This information is based upon the present state of our knowledge.  
This SDS has been compiled and is solely intended for this product.