

Printing date 05/29/2018

Reviewed on 04/03/2015

## 1 Identification

- **Product identifier**
- **Trade name:** P34 Brown
- **Article number:** 1034088
- **Application of the substance / the mixture** Model board filler
- **Details of the supplier of the safety data sheet** SikaAxson US - EHS Department
- **Manufacturer/Supplier:**  
Company Name: Axson Technologies US, Inc.-SikaAxson

Headquarters:  
 31200 Stephenson Hwy  
 Madison Heights, MI 48071  
 USA

Manufacturing Site:  
 1611 Hults Drive  
 Eaton Rapids, MI 48827  
 USA  
 ehs-us@axson.com

- **Information department:** Product safety department
- **Emergency telephone number:**  
 During normal opening times: +1 (248) 588-2270  
 CHEMTREC 24-hour Emergency: +1 (800) 424-9300

## 2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS02 Flame

Flam. Liq. 3 H226 Flammable liquid and vapor.



GHS08 Health hazard

Carc. 2 H351 Suspected of causing cancer.

Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.



GHS07

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2A H319 Causes serious eye irritation.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

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## · Hazard pictograms



GHS02 GHS07 GHS08

· Signal word *Danger*

## · Hazard-determining components of labeling:

*Vinyl toluene**Styrene**Stoddard solvent**heptane*

## · Hazard statements

*Flammable liquid and vapor.**Causes skin irritation.**Causes serious eye irritation.**Suspected of causing cancer.**May be fatal if swallowed and enters airways.*

## · Precautionary statements

*Avoid breathing dust/fume/gas/mist/vapors/spray**Keep away from heat/sparks/open flames/hot surfaces. - No smoking.**Use explosion-proof electrical/ventilating/lighting/equipment.**If swallowed: Immediately call a poison center/doctor.**Specific treatment (see on this label).**Do NOT induce vomiting.**If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.**If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.**Continue rinsing.**Take off contaminated clothing and wash it before reuse.**Store locked up.**Dispose of contents/container in accordance with local/regional/national/international regulations.*

## · Classification system:

## · NFPA ratings (scale 0 - 4)

*Health = 2**Fire = 2**Reactivity = 0*

## · HMIS-ratings (scale 0 - 4)

*Health = 2**Fire = 2**Reactivity = 0*

## · Other hazards

## · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS: 25013-15-4 EINECS: 246-562-2	Vinyl toluene	10-20%
CAS: 100-42-5 EINECS: 202-851-5	Styrene	≥5-<10%

### 4 First-aid measures

- **Description of first aid measures**
- **After inhalation:** In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** If symptoms persist consult doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**  
No further relevant information available.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **For safety reasons unsuitable extinguishing agents:** Water with full jet
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** Wear self-contained respiratory protective device.
- **Additional information**  
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures**  
Wear protective equipment. Keep unprotected persons away.
- **Environmental precautions:** Prevent seepage into sewage system, workpits and cellars.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
Dispose contaminated material as waste according to item 13.  
Ensure adequate ventilation.
- **Reference to other sections**  
See Section 7 for information on safe handling.  
See Section 8 for information on personal protection equipment.

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See Section 13 for disposal information.

### Protective Action Criteria for Chemicals

#### PAC-1:

65997-17-3	Fibrous Glass	15 mg/m <sup>3</sup>
100-42-5	Styrene	20 ppm
112945-52-5	Fumed silica - untreated	18 mg/m <sup>3</sup>
1309-37-1	diiron trioxide	15 mg/m <sup>3</sup>
64-17-5	ethanol	1,800 ppm
7631-86-9	silicon dioxide, chemically prepared	18 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	0.075 mg/m <sup>3</sup>
13463-67-7	titanium dioxide	30 mg/m <sup>3</sup>
1333-86-4	Carbon black	9 mg/m <sup>3</sup>
1344-28-1	aluminium oxide	15 mg/m <sup>3</sup>
1309-48-4	magnesium oxide	30 mg/m <sup>3</sup>
1305-78-8	calcium oxide	6 mg/m <sup>3</sup>
21645-51-2	aluminium hydroxide	8.7 mg/m <sup>3</sup>
8052-41-3	Stoddard solvent	300 mg/m <sup>3</sup>
98-29-3	4-tert-butylcatechol	0.18 mg/m <sup>3</sup>
130-15-4	1,4-naphthoquinone	0.57 mg/m <sup>3</sup>
108-10-1	4-methylpentan-2-one	75 ppm
142-82-5	heptane	500 ppm

#### PAC-2:

65997-17-3	Fibrous Glass	170 mg/m <sup>3</sup>
100-42-5	Styrene	130 ppm
112945-52-5	Fumed silica - untreated	100 mg/m <sup>3</sup>
1309-37-1	diiron trioxide	360 mg/m <sup>3</sup>
64-17-5	ethanol	3300* ppm
7631-86-9	silicon dioxide, chemically prepared	740 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	33 mg/m <sup>3</sup>
13463-67-7	titanium dioxide	330 mg/m <sup>3</sup>
1333-86-4	Carbon black	99 mg/m <sup>3</sup>
1344-28-1	aluminium oxide	170 mg/m <sup>3</sup>
1309-48-4	magnesium oxide	120 mg/m <sup>3</sup>
1305-78-8	calcium oxide	110 mg/m <sup>3</sup>
21645-51-2	aluminium hydroxide	73 mg/m <sup>3</sup>
8052-41-3	Stoddard solvent	1,800 mg/m <sup>3</sup>
98-29-3	4-tert-butylcatechol	2 mg/m <sup>3</sup>
130-15-4	1,4-naphthoquinone	6.3 mg/m <sup>3</sup>
108-10-1	4-methylpentan-2-one	500 ppm
142-82-5	heptane	830 ppm

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· PAC-3:		
65997-17-3	Fibrous Glass	990 mg/m <sup>3</sup>
100-42-5	Styrene	1100* ppm
112945-52-5	Fumed silica - untreated	630 mg/m <sup>3</sup>
1309-37-1	diiron trioxide	2,200 mg/m <sup>3</sup>
64-17-5	ethanol	15000* ppm
7631-86-9	silicon dioxide, chemically prepared	4,500 mg/m <sup>3</sup>
14808-60-7	Quartz (SiO <sub>2</sub> )	200 mg/m <sup>3</sup>
13463-67-7	titanium dioxide	2,000 mg/m <sup>3</sup>
1333-86-4	Carbon black	590 mg/m <sup>3</sup>
1344-28-1	aluminium oxide	990 mg/m <sup>3</sup>
1309-48-4	magnesium oxide	730 mg/m <sup>3</sup>
1305-78-8	calcium oxide	660 mg/m <sup>3</sup>
21645-51-2	aluminium hydroxide	440 mg/m <sup>3</sup>
8052-41-3	Stoddard solvent	29500** mg/m <sup>3</sup>
98-29-3	4-tert-butylcatechol	560 mg/m <sup>3</sup>
130-15-4	1,4-naphthoquinone	38 mg/m <sup>3</sup>
108-10-1	4-methylpentan-2-one	3000* ppm
142-82-5	heptane	5000* ppm

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special precautions are necessary if used correctly.
- **Information about protection against explosions and fires:**  
Keep ignition sources away - Do not smoke.  
Protect against electrostatic charges.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

25013-15-4 Vinyl toluene	
PEL	Long-term value: 480 mg/m <sup>3</sup> , 100 ppm

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REL	Long-term value: 480 mg/m <sup>3</sup> , 100 ppm
TLV	Short-term value: 483 mg/m <sup>3</sup> , 100 ppm Long-term value: 242 mg/m <sup>3</sup> , 50 ppm
<b>100-42-5 Styrene</b>	
ACGIH TLV	Short-term value: 170 at 40 ppm mg/m <sup>3</sup> Long-term value: 85 at 20 ppm mg/m <sup>3</sup>
OSHA PEL	Long-term value: 100 ppm mg/m <sup>3</sup> Ceiling limit value: 200 ppm mg/m <sup>3</sup>
PEL	Long-term value: 100 ppm Ceiling limit value: 200; 600* ppm *5-min peak in any 3 hrs
REL	Short-term value: 425 mg/m <sup>3</sup> , 100 ppm Long-term value: 215 mg/m <sup>3</sup> , 50 ppm
TLV	Short-term value: (170) mg/m <sup>3</sup> , (40) ppm Long-term value: (85) NIC-8.5 mg/m <sup>3</sup> , (20) NIC-2 ppm BEI, NIC-A3, NIC-OTO

· **Additional information:** The lists that were valid during the creation were used as basis.

· **Exposure controls**

· **Personal protective equipment:**

· **General protective and hygienic measures:**

- Keep away from foodstuffs, beverages and feed.
- Immediately remove all soiled and contaminated clothing.
- Wash hands before breaks and at the end of work.
- Avoid contact with the eyes and skin.

· **Breathing equipment:** Not required.

· **Protection of hands:**



Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

· **Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

· **Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

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## · Eye protection:



Tightly sealed goggles

## 9 Physical and chemical properties

## · Information on basic physical and chemical properties

## · General Information

## · Appearance:

Form: Thixotropic Paste

Color: Brown

· Odor: Pungent

· Odor threshold: Not determined.

· pH-value: Not determined.

## · Change in condition

Melting point/Melting range: Undetermined.

Boiling point/Boiling range: 145 °C (293 °F)

· Flash point: 53 °C (127.4 °F)

· Flammability (solid, gaseous): Not applicable.

· Ignition temperature: 490 °C (914 °F)

· Decomposition temperature: Not determined.

· Auto igniting: Product is not selfigniting.

· Danger of explosion: Product is not explosive. However, formation of explosive air/vapor mixtures are possible.

## · Explosion limits:

Lower: Not determined.

Upper: Not determined.

· Vapor pressure: Not determined.

· Density at 20 °C (68 °F): 0.63 g/cm<sup>3</sup> (5.26 lbs/gal)

· Relative density: Not determined.

· Vapor density: Not determined.

· Evaporation rate: Not determined.

## · Solubility in / Miscibility with

Water: Not miscible or difficult to mix.

· Partition coefficient (n-octanol/water): Not determined.

## · Viscosity:

Dynamic: Not determined.

Kinematic: Not determined.

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· <b>Solvent content:</b>	
<b>Organic solvents:</b>	18.1 %
<b>VOC content:</b>	26.83 %
	169.0 g/l / 1.41 lb/gl
· <b>Solids content:</b>	
	18.8 %
· <b>Other information</b>	
	No further relevant information available.

### 10 Stability and reactivity

- **Reactivity** No further relevant information available.
- **Chemical stability**
- **Thermal decomposition / conditions to be avoided:** No decomposition if used according to specifications.
- **Possibility of hazardous reactions** No dangerous reactions known.
- **Conditions to avoid** No further relevant information available.
- **Incompatible materials:** No further relevant information available.
- **Hazardous decomposition products:**  
?  
Carbon monoxide and carbon dioxide

### 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

- **LD/LC50 values that are relevant for classification:**

#### 100-42-5 Styrene

Oral	LD50	316 mg/kg (rat)
Inhalative	LC50/4 h	24 mg/l (rat)

- **Primary irritant effect:**
- **on the skin:** Irritant to skin and mucous membranes.
- **on the eye:** Irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

25013-15-4	Vinyl toluene	3
100-42-5	Styrene	2B
1309-37-1	diiron trioxide	3
64-17-5	ethanol	1
7631-86-9	silicon dioxide, chemically prepared	3
14808-60-7	Quartz (SiO <sub>2</sub> )	1
13463-67-7	titanium dioxide	2B

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1333-86-4	Carbon black	2B
108-10-1	4-methylpentan-2-one	2B
· <b>NTP (National Toxicology Program)</b>		
14808-60-7	Quartz (SiO <sub>2</sub> )	K
130-15-4	1,4-naphthoquinone	R
· <b>OSHA-Ca (Occupational Safety &amp; Health Administration)</b>		
None of the ingredients is listed.		

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:** Generally not hazardous for water
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

## 14 Transport information

· <b>UN-Number</b>	
· <b>DOT, IMDG, IATA</b>	UN1866
· <b>UN proper shipping name</b>	
· <b>DOT</b>	Resin solution
· <b>IMDG, IATA</b>	RESIN SOLUTION

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· **Transport hazard class(es)**· **DOT**

· **Class** 3 Flammable liquids  
 · **Label** 3

· **IMDG, IATA**

· **Class** 3 Flammable liquids  
 · **Label** 3

· **Packing group**· **DOT, IMDG, IATA** III· **Environmental hazards:**· **Marine pollutant:** No· **Special precautions for user** Warning: Flammable liquids· **Danger code (Kemler):** 30· **EMS Number:** F-E,S-E· **Stowage Category** A· **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code** Not applicable.· **Transport/Additional information:**· **DOT**

· **Quantity limitations** On passenger aircraft/rail: 60 L  
 On cargo aircraft only: 220 L

· **IMDG**· **Limited quantities (LQ)** 5L· **Excepted quantities (EQ)** Code: E1

Maximum net quantity per inner packaging: 30 ml

Maximum net quantity per outer packaging: 1000 ml

· **UN "Model Regulation":** UN 1866 RESIN SOLUTION, 3, III

## 15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**· **Sara**· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

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· **Section 313 (Specific toxic chemical listings):**

100-42-5	Styrene
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· **TSCA (Toxic Substances Control Act) (Substances not listed):**

All ingredients are listed.

· **Chemicals regulated by TSCA Section 12(b)**

None of the ingredients is listed.

· **Chemical regulated by TSCA 5(a)(2)rule:**

None of the ingredients is listed.

· **Proposition 65**

· **Chemicals known to cause cancer:**

100-42-5	Styrene
14808-60-7	Quartz (SiO <sub>2</sub> )
13463-67-7	titanium dioxide
1333-86-4	Carbon black
108-10-1	4-methylpentan-2-one

· **Chemicals known to cause reproductive toxicity for females:**

None of the ingredients is listed.

· **Chemicals known to cause reproductive toxicity for males:**

None of the ingredients is listed.

· **Chemicals known to cause developmental toxicity:**

64-17-5	ethanol
108-10-1	4-methylpentan-2-one

· **Carcinogenic categories**

· **EPA (Environmental Protection Agency)**

108-10-1	4-methylpentan-2-one	I
142-82-5	heptane	D

· **TLV (Threshold Limit Value established by ACGIH)**

25013-15-4	Vinyl toluene	A4
1309-37-1	diiron trioxide	A4
64-17-5	ethanol	A3
14808-60-7	Quartz (SiO <sub>2</sub> )	A2
13463-67-7	titanium dioxide	A4
1333-86-4	Carbon black	A4
1344-28-1	aluminium oxide	A4
1309-48-4	magnesium oxide	A4

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

14808-60-7	Quartz (SiO <sub>2</sub> )
13463-67-7	titanium dioxide
1333-86-4	Carbon black

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**Listed in CWC Regulations**

None of the ingredients is listed.

**GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).

**Hazard pictograms**


GHS02    GHS07    GHS08

**Signal word** *Danger*
**Hazard-determining components of labeling:**
*Vinyl toluene*
*Styrene*
*Stoddard solvent*
*heptane*
**Hazard statements**
*Flammable liquid and vapor.*
*Causes skin irritation.*
*Causes serious eye irritation.*
*Suspected of causing cancer.*
*May be fatal if swallowed and enters airways.*
**Precautionary statements**
*Keep away from heat/sparks/open flames/hot surfaces. - No smoking.*
*Use explosion-proof electrical/ventilating/lighting/equipment.*
*If swallowed: Immediately call a poison center/doctor.*
*Specific treatment (see on this label).*
*Do NOT induce vomiting.*
*If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.*
*If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.*
*Continue rinsing.*
*Take off contaminated clothing and wash it before reuse.*
*Store locked up.*
*Dispose of contents/container in accordance with local/regional/national/international regulations.*
**Chemical safety assessment:** *A Chemical Safety Assessment has not been carried out.*
**16 Other information**
*This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.*
**Date of preparation / last revision** 05/29/2018 / 3

**Abbreviations and acronyms:**
*ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)*
*IMDG: International Maritime Code for Dangerous Goods*
*DOT: US Department of Transportation*
*IATA: International Air Transport Association*
*ACGIH: American Conference of Governmental Industrial Hygienists*
*EINECS: European Inventory of Existing Commercial Chemical Substances*
*ELINCS: European List of Notified Chemical Substances*
*CAS: Chemical Abstracts Service (division of the American Chemical Society)*

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NFPA: National Fire Protection Association (USA)  
HMIS: Hazardous Materials Identification System (USA)  
VOC: Volatile Organic Compounds (USA, EU)  
LC50: Lethal concentration, 50 percent  
LD50: Lethal dose, 50 percent  
PBT: Persistent, Bioaccumulative and Toxic  
vPvB: very Persistent and very Bioaccumulative  
NIOSH: National Institute for Occupational Safety  
OSHA: Occupational Safety & Health  
TLV: Threshold Limit Value  
PEL: Permissible Exposure Limit  
REL: Recommended Exposure Limit  
Flam. Liq. 3: Flammable liquids – Category 3  
Skin Irrit. 2: Skin corrosion/irritation – Category 2  
Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A  
Carc. 2: Carcinogenicity – Category 2  
Asp. Tox. 1: Aspiration hazard – Category 1

US