

Printing date 05/25/2018

Reviewed on 05/28/2015

1 Identification

- **Product identifier**
- **Trade name:** ESSIL 245 Catalyst
- **Article number:** RS-15
- **Application of the substance / the mixture** Silicon catalyst
- **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**



GHS08 Health hazard

Repr. 2 H361 Suspected of damaging fertility or the unborn child.

Flam. Liq. 4 H227 Combustible liquid.

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



GHS08

- **Signal word** Warning
- **Hazard-determining components of labeling:**
octamethylcyclotetrasiloxane
- **Hazard statements**
Combustible liquid.
Suspected of damaging fertility or the unborn child.

(Contd. on page 2)

US

Printing date 05/25/2018

Reviewed on 05/28/2015

Trade name: ESSIL 245 Catalyst

(Contd. of page 1)

· Precautionary statements

Avoid breathing dust/fume/gas/mist/vapors/spray

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from flames and hot surfaces. – No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep cool.

Store locked up.

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

· Classification system:
· NFPA ratings (scale 0 - 4)

· HMIS-ratings (scale 0 - 4)

· Other hazards
· Results of PBT and vPvB assessment

· **PBT:** Not applicable.

· **vPvB:** Not applicable.

3 Composition/information on ingredients

· Chemical characterization: Mixtures

· **Description:** Mixture of the substances listed below with nonhazardous additions.

· Dangerous components:

CAS: 556-67-2	octamethylcyclotetrasiloxane	1-5%
EINECS: 209-136-7		

4 First-aid measures

· Description of first aid measures

· **After inhalation:** Supply fresh air; consult doctor in case of complaints.

· **After skin contact:** Generally the product does not irritate the skin.

· **After eye contact:** Rinse opened eye for several minutes under running water.

· **After swallowing:** If symptoms persist consult doctor.

· Information for doctor:

· **Most important symptoms and effects, both acute and delayed** No further relevant information available.

(Contd. on page 3)

Printing date 05/25/2018

Reviewed on 05/28/2015

Trade name: ESSIL 245 Catalyst

(Contd. of page 2)

- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**
CO₂, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **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:** Do not allow to enter sewers/ surface or ground water.
- **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.
See Section 13 for disposal information.
- **Protective Action Criteria for Chemicals**

- **PAC-1:**

70900-21-9	Siloxanes and Silicones, di-Me, hydrogen-terminated	30 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	30 ppm

- **PAC-2:**

70900-21-9	Siloxanes and Silicones, di-Me, hydrogen-terminated	330 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	68 ppm

- **PAC-3:**

70900-21-9	Siloxanes and Silicones, di-Me, hydrogen-terminated	2,000 mg/m ³
556-67-2	octamethylcyclotetrasiloxane	130 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.

(Contd. on page 4)

Printing date 05/25/2018

Reviewed on 05/28/2015

Trade name: *ESSIL 245 Catalyst*

(Contd. of page 3)

- *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:*

556-67-2 octamethylcyclotetrasiloxane

WEEL	Long-term value: 10* ppm
	*OARS WEEL

- *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.
Wash hands before breaks and at the end of work.
- *Breathing equipment:* Not required.
- *Protection of hands:*
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.
- *Eye protection:* Goggles recommended during refilling.

9 Physical and chemical properties

- *Information on basic physical and chemical properties*
- *General Information*
- *Appearance:*

Form:	Viscous
Color:	Blue
Odor:	Light
Odor threshold:	Not determined.

(Contd. on page 5)

Printing date 05/25/2018

Reviewed on 05/28/2015

Trade name: *ESSIL 245 Catalyst*

(Contd. of page 4)

· pH-value:	<i>Not determined.</i>
· Change in condition	
Melting point/Melting range:	<i>Undetermined.</i>
Boiling point/Boiling range:	<i>Undetermined.</i>
· Flash point:	<i>93 °C (199.4 °F)</i>
· Flammability (solid, gaseous):	<i>Not applicable.</i>
· Decomposition temperature:	<i>Not determined.</i>
· Auto igniting:	<i>Product is not selfigniting.</i>
· Danger of explosion:	<i>Not determined.</i>
· Explosion limits:	
Lower:	<i>Not determined.</i>
Upper:	<i>Not determined.</i>
· Vapor pressure:	<i>Not determined.</i>
· Density at 20 °C (68 °F):	<i>1.04 g/cm³ (8.68 lbs/gal)</i>
· Relative density	<i>Not determined.</i>
· Vapor density	<i>Not determined.</i>
· Evaporation rate	<i>Not determined.</i>
· Solubility in / Miscibility with	
Water:	<i>Not miscible or difficult to mix.</i>
· Partition coefficient (n-octanol/water):	<i>Not determined.</i>
· Viscosity:	
Dynamic:	<i>Not determined.</i>
Kinematic:	<i>Not determined.</i>
· Solvent content:	
VOC content:	<i>0.00 % 0.0 g/l / 0.00 lb/gl</i>
Solids content:	<i>0.0 %</i>
· Other information	<i>No further relevant information available.</i>

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:**
?

(Contd. on page 6)

US

Printing date 05/25/2018

Reviewed on 05/28/2015

Trade name: **ESSIL 245 Catalyst**

Carbon monoxide and carbon dioxide

(Contd. of page 5)

11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

- **Carcinogenic categories**

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

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

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:**

Water hazard class 1 (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

- **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.

(Contd. on page 7)



BUILDING TRUST



Safety Data Sheet acc. to OSHA HCS

Printing date 05/25/2018

Reviewed on 05/28/2015

Trade name: *ESSIL 245 Catalyst*

(Contd. of page 6)

- *Uncleaned packagings:*
- *Recommendation:* Disposal must be made according to official regulations.

14 Transport information

· <i>UN-Number</i> · <i>DOT, ADN, IMDG, IATA</i>	<i>not regulated</i>
· <i>UN proper shipping name</i> · <i>DOT, ADN, IMDG, IATA</i>	<i>not regulated</i>
· <i>Transport hazard class(es)</i> · <i>DOT, ADN, IMDG, IATA</i> · <i>Class</i>	<i>not regulated</i>
· <i>Packing group</i> · <i>DOT, IMDG, IATA</i>	<i>not regulated</i>
· <i>Environmental hazards:</i> · <i>Marine pollutant:</i>	<i>No</i>
· <i>Special precautions for user</i>	<i>Not applicable.</i>
· <i>Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</i>	<i>Not applicable.</i>
· <i>UN "Model Regulation":</i>	<i>not regulated</i>

15 Regulatory information

· <i>Safety, health and environmental regulations/legislation specific for the substance or mixture</i> · <i>Sara</i>
· <i>Section 355 (extremely hazardous substances):</i> <i>None of the ingredients is listed.</i>
· <i>Section 313 (Specific toxic chemical listings):</i> <i>None of the ingredients is listed.</i>
· <i>TSCA (Toxic Substances Control Act) (Substances not listed):</i> <i>All ingredients are listed.</i>
· <i>Chemicals regulated by TSCA Section 12(b)</i> <i>None of the ingredients is listed.</i>
· <i>Chemical regulated by TSCA 5(a)(2)rule:</i> <i>None of the ingredients is listed.</i>
· <i>Proposition 65</i>
· <i>Chemicals known to cause cancer:</i> <i>None of the ingredients is listed.</i>
· <i>Chemicals known to cause reproductive toxicity for females:</i> <i>None of the ingredients is listed.</i>

(Contd. on page 8)

Printing date 05/25/2018

Reviewed on 05/28/2015

Trade name: **ESSIL 245 Catalyst**

(Contd. of page 7)

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

None of the ingredients is listed.

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

None of the ingredients is listed.

 · **Carcinogenic categories**

 · **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

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

None of the ingredients is listed.

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

None of the ingredients is listed.

 · **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**


GHS08

 · **Signal word** Warning

 · **Hazard-determining components of labeling:**

octamethylcyclotetrasiloxane

 · **Hazard statements**

Combustible liquid.

Suspected of damaging fertility or the unborn child.

 · **Precautionary statements**

Obtain special instructions before use.

Do not handle until all safety precautions have been read and understood.

Keep away from flames and hot surfaces. – No smoking.

Wear protective gloves/protective clothing/eye protection/face protection.

IF exposed or concerned: Get medical advice/attention.

In case of fire: Use for extinction: CO₂, powder or water spray.

Store in a well-ventilated place. Keep cool.

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** 05/25/2018 / -

(Contd. on page 9)

Printing date 05/25/2018

Reviewed on 05/28/2015

Trade name: ESSIL 245 Catalyst

(Contd. of page 8)

· 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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

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. 4: Flammable liquids – Category 4

Repr. 2: Reproductive toxicity – Category 2