

Version: 19.1

Revision Date: 02/07/2019

SAFETY DATA SHEET

1. Identification

Product identifier: BLUESIL RES 6405

Recommended use and restriction on use

Recommended use: Paint.

Restrictions on use: None known.

Manufacturer/Importer/Supplier/Distributor Information

Manufacturer

Elkem Silicones France SAS Company Name: Address: 1-55 rue des Frères PERRET

F-69 192 SAINT FONS Cedex

Telephone: +33 (0) 4 72 73 74 75 Fax: +33 (0) 4 72 73 75 99

Contact Person:

E-mail: fds.sil@elkem.com

Supplier

Company Name: Elkem Silicones USA Corp. Address: Two Tower Blvd, Suite 1601 08816-1100 East Brunswick, NJ

Telephone: +1 (732) 227-2060 +1 (732) 249-7000 Fax:

Emergency telephone number: +1 (800) 424-9300 CHEMTREC

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Skin irritation Category 2 Toxic to reproduction Category 2 Specific Target Organ Toxicity -Category 3

Single Exposure

Specific Target Organ Toxicity -Category 2

Repeated Exposure

Label Elements

Hazard Symbol:



Signal Word: Danger

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Hazard Statement: Highly flammable liquid and vapor.

Causes skin irritation.

May cause drowsiness or dizziness. Suspected of damaging the unborn child.

May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Ground and bond container and receiving equipment. Use explosion-proof [electrical/ventilating/lighting/...] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective

gloves/protective clothing/eye protection/face protection.

Response: IF ON SKIN: Wash with plenty of soap and water. If skin irritation occurs:

Get medical advice/attention. IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF exposed or concerned: Get medical

advice/attention.

Storage: Store in a well-ventilated place. Keep container tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

Meets PBT (persistent/bioaccumulative/toxic) criteria Meets vPvB criteria

3. Composition/information on ingredients

Mixtures

Chemical Identity	CAS number	Content in percent (%)*
Toluene	108-88-3	40 - <50%
Octamethylcyclotetrasiloxane	556-67-2	0.1 - <1%

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

Composition Comments: Solution of polyorganosiloxane resin.

4. First-aid measures

General information: For further information refer to section 8 "Exposure-controls/personal

protection".

Ingestion: Do not induce vomiting. Rinse mouth thoroughly. If vomiting occurs, keep

head low so that stomach content doesn't get into the lungs. Get medical

attention.

Inhalation: Move into fresh air and keep at rest. Remove from the source of

contamination or move to fresh air. For those providing assistance, avoid exposure to yourself or others. Use adequate respiratory protection. If breathing is difficult, give oxygen. If breathing stops, provide artificial

respiration. Get medical attention.

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Skin Contact: Remove contaminated clothing and shoes. Wash with soap and water.

Wash the skin immediately with soap and water. Get medical attention if irritation persists after washing. Wash contaminated clothing before reuse.

Destroy or thoroughly clean contaminated shoes.

Eye contact: In the event of contact with the eyes, rinse thoroughly with clean water.

Continue to rinse for at least 15 minutes. In the event of contact with the eyes, rinse thoroughly with clean water for at least 15 minutes. Get medical

attention if irritation persists after washing.

Most important symptoms/effects, acute and delayed

Symptoms: None known.

Indication of immediate medical attention and special treatment needed

Treatment: If ingested, material may be aspirated into the lungs and cause chemical

pneumonitis. Treat appropriately.

5. Fire-fighting measures

General Fire Hazards: Vapors may travel considerable distance to a source of ignition and flash

back. Containers may explode (due to the build-up of pressure) when

exposed to extreme heat.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from

the chemical:

Flammable. Hazardous Decomposition Products: formaldehyde, oxides of

carbon and silica.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Water spray should be used to cool containers.

Special protective equipment

for fire-fighters:

Firefighters should wear standard protective equipment and a positive

pressure self-contained breathing apparatus (SCBA).

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures: Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Do not breathe vapor. Use personal protective equipment. See

Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning

up:

Use non-sparking tools. Absorb with sand or other inert absorbent and place into containers.

Notification Procedures: Caution: Contaminated surfaces may be slippery. For waste disposal, see

Section 13 of the SDS.

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Environmental Precautions: Collect spillage. Do not discharge into drains, water courses or onto the

ground. Spills may be reportable to the National Response Center (800-

424-8802). and to state and/or local agencies.

7. Handling and storage

Precautions for safe handling: Use explosion-proof electrical/ventilating/lighting/equipment. Ground

container and transfer equipment to eliminate static electric sparks. Avoid forming spray/aerosol mists. See Section 8 of the SDS for Personal

Protective Equipment.

Conditions for safe storage,

including any incompatibilities:

Store in original tightly closed container. Store in a cool, dry place with adequate ventilation. Avoid heat, sparks, open flames and other ignition

sources. Nitrogen blanketing of containers is recommended.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

Chemical Identity	Туре	Exposure Limit Values 20 ppm		Source US. ACGIH Threshold Limit Values (01 2010)	
Toluene	TWA				
	REL	100 ppm	375 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)	
	STEL	150 ppm	560 mg/m3	US. NIOSH: Pocket Guide to Chemical Hazards (2005)	
	TWA	100 ppm	375 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
	STEL	150 ppm	560 mg/m3	US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989)	
	TWA	200 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)	
	MAX. CONC	500 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)	
	Ceiling	300 ppm		US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006)	

Biological Limit Values

Chemical Identity	Exposure Limit Values	Source
Toluene (toluene: Sampling time: End of shift.)	0.03 mg/l (Urine)	ACGIH BEL (01 2010)
Toluene (toluene: Sampling time: Prior to last shift of work week.)	0.02 mg/l (Blood)	ACGIH BEL (01 2010)
Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.)	0.3 mg/g (Creatinine in urine)	ACGIH BEL (01 2010)

Appropriate Engineering Controls

Use explosion-proof ventilation equipment.

001111010

Individual protection measures, such as personal protective equipment

General information: Observe occupational exposure limits and minimize the risk of inhalation of

vapors and mist.

Eye/face protection: Safety Glasses.

Skin Protection

Hand Protection: Protective gloves are recommended.

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Other: Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory Protection: If ventilation is insufficient, suitable respiratory protection must be provided.

Use a NIOSH/MSHA approved respirator if there is a risk of exposure to

fumes at levels exceeding the exposure limits.

Hygiene measures: Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties:

Appearance

Physical state: Liquid

Form: Slightly viscous

Color: Colorless to pale yellow

Odor: Strong

Odor threshold:

pH:

No data available.

Not applicable

Freezing point:

No data available.

Boiling Point: 230 °F (110 °C) Approximate

Flash Point: 43 °F (6 °C) (Closed cup according to method Afnor T 60103.)

Toluene

Evaporation rate:

Flammability (solid, gas):

Flammability limit - upper (%):

Flammability limit - lower (%):

No data available.

7 %(V) Toluene

1.2 %(V) Toluene

Vapor pressure: 30 hPa (68 °F (20 °C)) Toluene

Vapor density: 1.065

Density: Approximate 1.07 kg/dm3 (68 °F (20 °C))

Solubility(ies)

Solubility in water: Very slightly soluble.

Solubility (other): Aliphatic hydrocarbons: Miscible (in all proportions).

Chlorinated solvents: Miscible (in all proportions). Aromatic hydrocarbons: Miscible (in all proportions).

Acetone: Miscible (in all proportions).

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: 1026 °F (552 °C) Toluene

Decomposition temperature: No data available.

Viscosity: 50 mm2/s (77 °F (25 °C))

Other information

Oxidizing properties: Not considered as oxidizing. Expert statement.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Stable

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Possibility of hazardous

reactions:

Will not occur.

Conditions to avoid: Avoid heat, sparks, open flames and other ignition sources.

Incompatible Materials: Strong oxidizing agents.

Hazardous Decomposition

Products:

Thermal decomposition or combustion may liberate carbon oxides, other

toxic gases or vapors and amorphous silica.

11. Toxicological information

Information on likely routes of exposure

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: No data available.

Dermal

Product: No data available.

Inhalation

Product: No data available.

Specified substance(s):

Toluene LC 50 (Rat, 4 h): 28.1 mg/l

Octamethylcyclotetrasilox

ane

LC 50 (Rat, 4 h): 36 mg/l

Repeated dose toxicity

Product: No data available.

Specified substance(s):

Toluene NOAEL (Rat, Ingestion): 625 mg/kg NOAEL (Rat, Inhalation): 2,261 mg/kg

Specified substance(s):

Octamethylcyclotetrasilox NOAEL (Rat, Inhalation): 1.820 mg/l

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ane NOAEL (Rabbit, Dermal): 960 mg/kg

Skin Corrosion/Irritation

Product: Causes skin irritation.

Serious Eye Damage/Eye Irritation

Product: No data available.

Specified substance(s):

Toluene (Rabbit): Not irritating

Specified substance(s):

Octamethylcyclotetrasil (Rabbit, 24 h): Not irritating

oxane

Respiratory or Skin Sensitization

Product: No data available.

Specified substance(s):

Toluene (Guinea Pig)Not a skin sensitizer.

Specified substance(s):

Octamethylcyclotetrasil (Guinea Pig)Not a skin sensitizer.

oxane

Carcinogenicity

Product: No data available.

Specified substance(s):

Toluene Not classified

Specified substance(s):

Octamethylcyclotetrasilox No effects expected.

ane

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

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Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

Toluene Bacteria: No mutagenic components identified.

Specified substance(s):

Octamethylcyclotetrasilox Bacteria: No mutagenic components identified.

ane Chromosomal aberration: No mutagenic components identified.

In vitro gene mutations test on mammalian cells:: No mutagenic components

identified.

In vivo

Product: No data available.

Specified substance(s):

Toluene (Rat)No mutagenic components identified.

Specified substance(s):

Octamethylcyclotetrasilox (Rat)No effects expected.

ane

Reproductive toxicity

Product: Suspected of damaging the unborn child.

Specific Target Organ Toxicity - Single Exposure

Product: May cause drowsiness or dizziness.

Specific Target Organ Toxicity - Repeated Exposure

Product: May cause damage to organs through prolonged or repeated exposure.

Aspiration Hazard

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox No effects expected.

ane

Other effects: No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Toluene LC 50 (Fish, 96 h): 5.5 mg/l

Octamethylcyclotetrasilox LC 50 (Oncorhynchus mykiss, 96 h): >= 0.022 mg/l

ane

Aquatic Invertebrates

Product: No data available.

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Specified substance(s):

Toluene EC 50 (Water flea (Daphnia magna), 48 h): 3.78 mg/l

Octamethylcyclotetrasilox

EC 50 (Water flea (Daphnia magna), 48 h): > 0.015 mg/l

Chronic hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Toluene NOEC (Atlantic Salmon, 40 d): 1.39 mg/l

Octamethylcyclotetrasilox

ane

NOEC (Oncorhynchus mykiss, 93 d): >= 0.0044 mg/l

Aquatic Invertebrates

Product: No data available.

Specified substance(s):

Toluene NOEC (Water flea (Daphnia magna), 7 d): 0.74 mg/l

Octamethylcyclotetrasilox

NOEC (Water flea (Daphnia magna), 21 d): 0.015 mg/l

Toxicity to Aquatic Plants

Product: No data available.

Specified substance(s):

Toluene EC 50 (Alga, 3 h): 134 mg/l

Octamethylcyclotetrasilox

ane

EC 50 (Green algae (Selenastrum capricornutum), 96 h): > 0.022 mg/l

Persistence and Degradability

Biodegradation

Product: No data available.

Specified substance(s):

Toluene 69 % The product is easily biodegradable.

Octamethylcyclotetrasilox

ane

3.7 % (29 d) The product is not considered to be readily biodegradable.

BOD/COD Ratio

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Toluene Bioconcentration Factor (BCF): 90 Potential to bioaccumulate is low.

Octamethylcyclotetrasilox Fathead Minnow, Bioconcentration Factor (BCF): 12,400

ane

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Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Specified substance(s):

Toluene Log Kow: 2.73

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

Toluene No data available. Octamethylcyclotetrasiloxa No data available.

ne

Other adverse effects: No data available.

13. Disposal considerations

Disposal instructions: Dispose of waste at an appropriate treatment and disposal facility in

accordance with applicable laws and regulations, and product

characteristics at time of disposal. Contaminated packages should be as empty as possible. Disposal of unused product may be subject to RCRA regulations (40 CFR 261). Disposal of the used product may also be

regulated due to ignitability.

RCRA Information

Waste code: EPA RCRA HAZARDOUS WASTE CODE: D001

14. Transport information

DOT

UN Number: UN 1866

UN Proper Shipping Name: RESIN SOLUTION

Transport Hazard Class(es)

Class: 3
Label(s): 3
Packing Group: II

Marine Pollutant: Not a Marine Pollutant

Special precautions for user: -

IMDG

UN Number: UN 1866

UN Proper Shipping Name: RESIN SOLUTION

Transport Hazard Class(es)

 Class:
 3

 Label(s):
 3

 EmS No.:
 F-E, S-E

Packing Group:

Marine Pollutant: Not a Marine Pollutant

Limited quantity

Excepted quantity

Special precautions for user: -

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IATA

UN Number: UN 1866

Proper Shipping Name: RESIN SOLUTION

Transport Hazard Class(es):

Class: 3 Label(s): 3

Marine Pollutant: No other information noted.

Packing Group:

Limited quantity

Excepted quantity

Special precautions for user: -

Other information

Passenger and cargo aircraft: Allowed. Cargo aircraft only: Allowed.

Environmental hazards: Not a Marine Pollutant

Special precautions for user: No special precautions.

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

Chemical Identity Reportable quantity

Toluene lbs. 1000

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

X Acute (Immediate) X Chronic (Delayed) X Fire Reactive Pressure Generating

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

Toluene lbs. 1000

SARA 313 (TRI Reporting)

Reporting Reporting threshold for

threshold for manufacturing and

<u>Chemical Identity</u> <u>other users</u> <u>processing</u>

Toluene

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical IdentityReportable quantityTolueneReportable quantity: lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

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US State Regulations

US. California Proposition 65



WARNING: This product can expose you to chemicals including

Toluene, which is known to the State of California to cause birth defects or other reproductive harm.

For more information go to www.P65Warnings.ca.gov.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Toluene

US. Massachusetts RTK - Substance List

No ingredient regulated by MA Right-to-Know Law present.

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Toluene

US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.

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Inventory Status:

Australia AICS: On or in compliance with the inventory.

EINECS, ELINCS or NLP: On or in compliance with the inventory.

China Inv. Existing Chemical Substances: On or in compliance with the inventory.

Korea Existing Chemicals Inv. (KECI): On or in compliance with the inventory.

Canada NDSL Inventory: On or in compliance with the inventory.

Philippines PICCS: On or in compliance with the inventory.

US TSCA Inventory: On or in compliance with the inventory.

New Zealand Inventory of Chemicals: On or in compliance with the inventory.

Taiwan Chemical Substance Inventory:

On or in compliance with the inventory.

16.Other information, including date of preparation or last revision

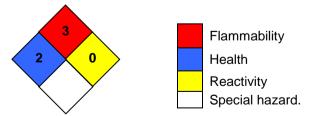
HMIS Hazard ID

Health	*	2
Flammability		3
Physical Hazards		0
PERSONAL PROTECTION		Н

H - Goggles, Gloves, Apron & Vapor Respirator

Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

NFPA Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible

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Further Information: No data available.

Disclaimer: The information given is based on data available for the material, the

components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers

and the environment.

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