

# **Safety Data Sheet**

LOCTITE SI 5900 BK 300ML

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SDS No.: 152855

V001.18

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# Section 1. Identification of the substance/preparation and of the company/undertaking

**Product name:** 

LOCTITE SI 5900 BK 300ML

Other means of identification:

LOCTITE SI 5900 BK 300ML

**Product code:** 

IDH578867

Recommended use of the chemical and restrictions on use

**Intended use:** 

Silicone sealant

Manufacturer/Importer/Distributor Representative Company

Henkel Thailand Ltd. The Offices at Centralworld,

35th Floor, 999/9 Rama 1 Rd., Kwang Patumwan, Khet Patumwan,

10330 Bangkok

Thailand

Phone: +66 (2209) 8000 Fax-no.: +66 (2209) 8008

E-mail address of person responsible for Safety Data Sheet:

ap-ua-psra.sea@henkel.com

**Emergency Telephone for Chemical Accidents:** 

FOR EMERGENCIES ONLY (Spill, major leak, Fire, Exposure, or Accident). Call CHEMTREC: +1 703-741-5970

# Section 2. Hazards identification

### **GHS Classification:**

<u>Hazard Class</u> <u>Hazard Category</u> <u>Target organ</u>

Serious eye damage/eye irritation Category 1
Skin sensitizer Category 1
Carcinogenicity Category 1
Specific target organ toxicity Category 2

Specific target organ toxicity - Category 2 Upper respiratory tract

single exposure

**GHS** label elements:



#### Signal word:

Danger

### **Hazard statement:**

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H350 May cause cancer (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).

H371 May cause damage to the following organs:

#### **Precaution:**

#### **Prevention:**

P201 Obtain special instructions before use.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash hands thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P272 Contaminated work clothing should not be allowed out of the workplace.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

#### Responses

P302+P352 IF ON SKIN: Wash with plenty of water.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P311 If exposed or concerned: Call a POISON CENTER/doctor/...

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.

P362+P364 Take off contaminated clothing and wash it before reuse.

#### Disposal:

P501 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.

# Section 3. Composition / information on ingredients

### **Substance or Mixture:**

Mixture

### **Declaration of hazardous chemical:**

Hazard component CAS-No.	Content	GHS Classification
Calcium carbonate	30- 60 %	
471-34-1		
Butan-2-one O,O',O"-(vinylsilylidyne)trioxime	1- 10 %	Flammable liquids 4
2224-33-1		H227 Acute toxicity 5; Oral
		H303
		Serious eye damage/eye irritation 1
		H318
		Skin sensitizer 1
		H317
		Specific target organ toxicity - repeated exposure 2 H373
		Acute hazards to the aquatic environment 3 H402
2-butanone oxime 96-29-7	1- 10 %	Flammable liquids 4 H227
		Acute toxicity 3; Oral H301
		Acute toxicity 4; Dermal H312
		Skin corrosion/irritation 2
		H315 Serious eye damage/eye irritation 1
		H318
		Skin sensitizer 1
		H317
		Carcinogenicity 1B; Inhalation H350
		Specific target organ toxicity - single exposure 1 H370
		Specific target organ toxicity - single exposure 3 H336
		Specific target organ toxicity - repeated exposure 2 H373
		Acute hazards to the aquatic environment 3 H402
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	1- 10 %	
Carbon black - Nano 1333-86-4	1- 10 %	
octamethylcyclotetrasiloxane 556-67-2	< 0.1 %	Flammable liquids 3 H226
		Toxic to reproduction 2 H361
		Chronic hazards to the aquatic environment 1 H410

Move to fresh air. If symptoms persist, seek medical advice.

#### Skin contact:

IF ON SKIN: Wash with plenty of soap and water.

Seek medical advice.

#### Eye contact:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Seek medical advice.

#### **Ingestion:**

Do not induce vomiting. Seek medical advice.

### Indication of immediate medical attention and special treatment needed:

See section: Description of first aid measures

### Section 5. Fire fighting measures

#### Suitable extinguishing media:

water, carbon dioxide, foam, powder

#### Improper extinguishing media:

High pressure waterjet

### Specific hazards arising from the chemical:

In the event of a fire, carbon monoxide (CO), carbon dioxide (CO2) and nitrogen oxides (NOx) can be released. Silicon dioxide

### Special protection equipment and precautions for firefighters:

Wear self-contained breathing apparatus and full protective clothing, such as turn-out gear.

## Additional fire fighting advice:

In case of fire, keep containers cool with water spray.

# Section 6. Accidental release measures

## Personal precautions:

Avoid skin and eye contact.

Wear protective equipment.

Ensure adequate ventilation.

See advice in section 8

### **Environmental precautions:**

Do not empty into drains / surface water / ground water.

### Clean-up methods:

Scrape up as much material as possible.

Ensure adequate ventilation.

Store in a partly filled, closed container until disposal.

Dispose of contaminated material as waste according to Section 13.

# Section 7. Handling and storage

# Handling:

Use only in well-ventilated areas.
Vapours should be extracted to avoid inhalation. Avoid skin and eye contact. See advice in section 8

### Storage:

Store in a cool, well-ventilated place. Refer to Technical Data Sheet Temperatures between + 10  $^{\circ}C$  and + 30  $^{\circ}C$ Never allow product to get in contact with water during storage

### Section 8. Exposure controls / personal protection

### Components with specific control parameters for workplace:

Calcium carbonate, respirable dust 471-34-1	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	5
	Remarks	TH OEL
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 471-34-1	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	3
	Remarks	ACGIH
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 471-34-1	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	10
	Remarks	ACGIH
Calcium carbonate, inhalable dust 471-34-1	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	15
	Remarks	TH OEL
Particles (insoluble or poorly soluble) not otherwise specified, respirable particles 68611-44-9	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	3
	Remarks	ACGIH
Particles (insoluble or poorly soluble) not otherwise specified, inhalable particles 68611-44-9	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	10
	Remarks	ACGIH
CARBON BLACK, INHALABLE FRACTION 1333-86-4	Value type	Time Weighted Average (TWA):
	mg/m <sup>3</sup>	3

# Respiratory protection:

Ensure adequate ventilation.

An approved mask or respirator fitted with an organic vapour cartridge should be worn if the product is used in a poorly ventilated area

Dust mask, P2 particle filter.

#### Hand protection:

Chemical-resistant protective gloves (EN 374).

Suitable materials for short-term contact or splashes (recommended: at least protection index 2, corresponding to > 30 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

Suitable materials for longer, direct contact (recommended: protection index 6, corresponding to > 480 minutes permeation time as per EN 374):

nitrile rubber (NBR; >= 0.4 mm thickness)

This information is based on literature references and on information provided by glove manufacturers, or is derived by analogy with similar substances. Please note that in practice the working life of chemical-resistant protective gloves may be considerably shorter than the permeation time determined in accordance with EN 374 as a result of the many influencing factors (e.g. temperature). If signs of wear and tear are noticed then the gloves should be replaced.

#### **Eye protection:**

Safety glasses with sideshields or chemical safety goggles should be worn if there is a risk of splashing. Protective eye equipment should conform to EN166.

### **Body protection:**

Wear suitable protective clothing.

Protective clothing should conform to EN 14605 for liquid splashes or to EN 13982 for dusts.

### **Engineering controls:**

Provide local and general exhaust ventilation to effectively remove and prevent buildup of any vapors or mists generated from the handling of this product.

### General protection and hygiene measures:

The workplace should be equipped with an emergency shower and eye-rinsing facility.

#### Hygienic measures:

Wash hands before work breaks and after finishing work.

Do not eat, drink or smoke while working.

Take off contaminated clothing and wash before reuse.

## Section 9. Physical and chemical properties

black Appearance: solid

Odor: Odorless

Odor threshold (CA): No data available.

pH:(Concentration: 100 % product) 7 - 9

**Melting point / freezing point:** > 400 °C (> 752 °F)

Specific gravity: 1.31

**Boiling point:** > 200 °C (> 392 °F) Flash point: Not applicable **Evaporation rate:** No data available.

Flammability (solid, gas): The product is not flammable.

Lower explosive limit: No data available. Upper explosive limit: No data available. Vapor pressure: < 6.67 hPa

(; 20 °C (68 °F))

Vapor density: Not applicable, Product is a solid.

**Density:** 1.30 - 1.37 g/cm3

**Solubility:** Polymerises in presence of water. No data available.

Partition coefficient: noctanol/water:

The substance or mixture is not classified as pyrophoric. Auto ignition:

**Decomposition temperature:** > 100 °C

Viscosity: No data available. (; Method: no method / method unknown)

**VOC** content: < 3 %

(2010/75/EC)

# Section 10. Stability and reactivity

#### Reactivity/Incompatible materials:

Reacts with oxidants, acids and lyes

Chemical stability:

Stable under recommended storage conditions.

#### Conditions to avoid:

Stable under normal conditions of storage and use.

Excessive heat.

### Hazardous decomposition products:

None if used for intended purpose.

# Section 11. Toxicological information

General toxicological

information:

Prolonged or repeated contact may cause skin irritation.

Methylethyl ketoxime released during polymerisation of oxime curing RTV silicones is

irritating to the respiratory system

Methylethyl ketoxime released during polymerisation of oxime curing silicones. It is harmful

in contact with skin and is a skin sensitizer.

Oral toxicity: Acute toxicity estimate (ATE): > 2,000 mg/kg

Method: Calculation method

Acute toxicity estimate (ATE): > 2,000 mg/kg **Dermal toxicity:** 

Method: Calculation method

Symptoms of Overexposure: SKIN: Rash, Urticaria.

After eye contact: Corrosive, may cause permanent damage to eyes (impairment of vision).

### Acute oral toxicity:

Calcium carbonate	Value type	LD50	
471-34-1	Value	> 2,000 mg/kg	
	Species	rat	
	Method	OECD Guideline 420 (Acute Oral Toxicity)	
Butan-2-one O,O',O"-	Value type	LD50	
(vinylsilylidyne)trioxime	Value	> 2,000 mg/kg	
2224-33-1	Species	rat	
	Method	OECD Guideline 425 (Acute Oral Toxicity: Up-and-Down Procedure)	
Butan-2-one O,O',O"-	Value type	Acute toxicity estimate (ATE)	
(vinylsilylidyne)trioxime	Value	2,500 mg/kg	
2224-33-1	Species		
	Method	Expert judgement	
2-butanone oxime	Value type	Acute toxicity estimate (ATE)	
96-29-7	Value	100 mg/kg	
	Species		
	Method	Expert judgement	
Silane, dichlorodimethyl-, reaction	Value type	LD50	
products with silica	Value	> 5,000 mg/kg	
68611-44-9	Species	rat	
	Method	OECD Guideline 401 (Acute Oral Toxicity)	
Carbon black - Nano	Value type	LD50	
1333-86-4	Value	> 8,000 mg/kg	
	Species	rat	
	Method	OECD Guideline 401 (Acute Oral Toxicity)	
octamethylcyclotetrasiloxane	Value type	LD50	
556-67-2	Value	> 4,800 mg/kg	
	Species	rat	
	Method	equivalent or similar to OECD Guideline 401 (Acute Oral Toxicity)	

# Acute inhalative toxicity:

Calcium carbonate	Value type	LC50
471-34-1	Value	> 3 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)
2-butanone oxime	Value type	LC50
96-29-7	Value	> 20 mg/l
	Exposure time	4 h
	Species	not specified
	Method	not specified
octamethylcyclotetrasiloxane	Value type	LC50
556-67-2	Value	36 mg/l
	Exposure time	4 h
	Species	rat
	Method	OECD Guideline 403 (Acute Inhalation Toxicity)

# Acute dermal toxicity:

Calcium carbonate	Value type	LD50
471-34-1	Value	> 2,000 mg/kg
	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
Butan-2-one O,O',O"-	Value type	LD50
(vinylsilylidyne)trioxime	Value	> 2,009 mg/kg
2224-33-1	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
2-butanone oxime	Value type	Acute toxicity estimate (ATE)
96-29-7	Value	1,100 mg/kg
	Species	
	Method	Expert judgement
Silane, dichlorodimethyl-, reaction	Value type	LD50
products with silica	Value	> 2,000 mg/kg
68611-44-9	Species	rat
	Method	OECD Guideline 402 (Acute Dermal Toxicity)
octamethylcyclotetrasiloxane	Value type	LD50
556-67-2	Value	> 2,375 mg/kg
	Species	rat
	Method	equivalent or similar to OECD Guideline 402 (Acute Dermal Toxicity)

# Skin corrosion/irritation:

Calcium carbonate	Result	not irritating
471-34-1	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Butan-2-one O,O',O"-	Result	not irritating
(vinylsilylidyne)trioxime	Exposure time	4 h
2224-33-1	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
Silane, dichlorodimethyl-, reaction	Result	not irritating
products with silica	Exposure time	4 h
68611-44-9	Species	rabbit
	Method	not specified
Carbon black - Nano	Result	not irritating
1333-86-4	Exposure time	4 h
	Species	rabbit
	Method	OECD Guideline 404 (Acute Dermal Irritation / Corrosion)
octamethylcyclotetrasiloxane	Result	not irritating
556-67-2	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 404 (Acute Dermal Irritation / Corrosion)

# Serious eye damage/irritation:

Calcium carbonate	Result	not irritating
471-34-1	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
2-butanone oxime	Result	Category 1 (irreversible effects on the eye)
96-29-7	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
Silane, dichlorodimethyl-, reaction	Result	not irritating
products with silica	Exposure time	
68611-44-9	Species	rabbit
	Method	not specified
Carbon black - Nano	Result	not irritating
1333-86-4	Exposure time	
	Species	rabbit
	Method	OECD Guideline 405 (Acute Eye Irritation / Corrosion)
octamethylcyclotetrasiloxane	Result	not irritating
556-67-2	Exposure time	
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 405 (Acute Eye Irritation / Corrosion)

# Respiratory or skin sensitization:

Calcium carbonate	Result	not sensitising
471-34-1	Test type	Mouse local lymphnode assay (LLNA)
	Species	mouse
	Method	OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)
Butan-2-one O,O',O"-	Result	sensitising
(vinylsilylidyne)trioxime	Test type	Guinea pig maximisation test
2224-33-1	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
2-butanone oxime	Result	sensitising
96-29-7	Test type	Guinea pig maximisation test
	Species	guinea pig
	Method	OECD Guideline 406 (Skin Sensitisation)
Silane, dichlorodimethyl-, reaction	Result	not sensitising
products with silica	Test type	Patch-Test
68611-44-9	Species	human
	Method	human repeat insult patch test
Carbon black - Nano	Result	not sensitising
1333-86-4	Test type	M 1 11 1 1 (TINIA)
	1 CSt type	Mouse local lymphnode assay (LLNA)
	Species	mouse local lympnnode assay (LLNA)
		<b>7 1 2</b> \ <b>7 1</b>
octamethylcyclotetrasiloxane	Species	mouse
octamethylcyclotetrasiloxane 556-67-2	Species Method	mouse OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay) not sensitising
	Species Method Result	mouse OECD Guideline 429 (Skin Sensitisation: Local Lymph Node Assay)

# Germ cell mutagenicity:

Type of study / Route of administration   Method	Calcium carbonate	Result	nagativa
Metabolic activation / Exposure time Method All Calcium carbonate A71-34-1 A71-24-1			negative
Calcium carbonate  Af1-34-1  Type of study / Route of administration Metabolic activation / Exposure time Method Af1-34-1  Type of study / Route of administration Metabolic activation / Exposure time Method Af1-34-1  Type of study / Route of administration Metabolic activation / Exposure time Method Af1-34-1  Type of study / Route of administration Metabolic activation / Exposure time Method Af1-34-1  Type of study / Route of administration Method Af1-34-1  Result Type of study / Route of administration Method Af1-34-1  Butan-2-one O.O.O.O.  Convertishing the study / Route of administration Method Af1-34-1  Met	4/1-34-1		
Result		•	
Type of study / Route of administration   with and without   Calcium carbonate   471-34-1   Fype of study / Route of administration   Method   DECD Guideline 473 (In vitro Mammalian Chromosome Aberration Test)   mammalian cell gene mutation assay   with and without   mammalian cell gene mutation assay   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   with and without   mammalian cell gene mutation assay (e.g. Ames test)   mammalian cell gene mutation assay (e.g. Ames test)   with a	G 1		
Method Aberration Test)  Alternation Test)  Result Type of study / Route of administration (Method Aberration Test)  Method Aberration Abe			
Method   OECD Guideline 473 (In vitro Mammalian Chromosom Aberration Test)   negative	4/1-34-1		
Calcium carbonate 471-34-1 471			
Result		Method	
Type of study / Route of administration   Methodic activation / Exposure time   Method   Methodic activation / Exposure time   Method   Methodic activation / Exposure time   Methodic	~		
Metabolic activation / Exposure time   with and without   DCD Guideline 476 (In vitro Mammalian Cell Gen Mutation Test)			
Method   OECD Guideline 476 (In vitro Mammalian Cell Gen Mutation Test)   Method Test of study / Route of administration   Method Species   Method Test of Study / Route of administration   Method Test of Study / Route of Adm	4/1-34-1		
Butan-2-one Q,Q,Q,C,C,C,C,C,C,C,C,C,C,C,C,C,C,C,C,C			
Result		Method	
Type of study / Route of administration   Daterial reverse mutation assay (e.g. Ames test)			
Metabolic activation / Exposure time   with and without   OECD Guideline 471 (Bacterial Reverse Mutation Assay)   Result   Type of study / Route of administration   OECD Guideline 471 (Bacterial Reverse Mutation Assay)   Result   Type of study / Route of administration   OECD Guideline 471 (Mammalian Erythrocyte   Metabolic activation / Exposure time   Species   Metabolic activation / Exposure time   Me			
Method   OFCD Guideline 471 (Bacterial Reverse Mutation Assay)   Interpretation   Image   Interpretation   Image   Interpretation   Image			
Result	2224-33-1		
Type of study / Route of administration   Metabolic activation / Exposure time   Species   Method   Section   Section   Symbolic activation / Exposure time   Species   Method   Section   Section   Symbolic activation   Section   Sec			
Metabolic activation / Exposure time   Species   Method   DECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)			
Species   Method   Species   Method   OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)			intraperitoneal
Method   OECD Guideline 474 (Mammalian Erythrocyte Micronucleus Test)	2224-33-1	Metabolic activation / Exposure time	
2-butanone oxime 96-29-7 Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Resul		Species	
Result   Type of study / Route of administration   Metabolic activation / Exposure time   Species   Far   Method   EPA OPPTS 870.5385 (In Vivo Mammalian Cell General Exposure time   Species   Far   Method   EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)   Metabolic activation / Exposure time   Species   Far   Method   EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)   Metabolic activation / Exposure time   Species   EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)   Metabolic activation / Exposure time   Species   EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)   Metabolic activation / Exposure time   Metabolic activa		Method	OECD Guideline 474 (Mammalian Erythrocyte
Possible			Micronucleus Test)
Metabolic activation / Exposure time   Method   EPA OPPTS 870.5265 (The Salmonella typhimurium Bacterial Reverse Mutation Test)	2-butanone oxime		
Method   EPA OPPTS 870.5265 (The Salmonella typhimurium Bacterial Reverse Mutation Test)	96-29-7	Type of study / Route of administration	bacterial reverse mutation assay (e.g Ames test)
2-butanone oxime 96-29-7 Result Type of study / Route of administration Metabolic activation / Exposure time Method  2-butanone oxime 96-29-7 Result Type of study / Route of administration Metabolic activation / Exposure time Method  2-butanone oxime 96-29-7 Result Type of study / Route of administration Metabolic activation / Exposure time Method  2-butanone oxime P6-29-7 Result Type of study / Route of administration Metabolic activation / Exposure time Method  2-butanone oxime P6-29-7 Result Type of study / Route of administration Metabolic activation / Exposure time Species Tat Method  2-butanone oxime P6-29-7 Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  2-butanone oxime P6-29-7 Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  2-butanone oxime Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  2-butanone oxime Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  2-POPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  2-PA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) Result Type of study / Route of administration Metabolic activation / Exposure time Method  3-Bacterial Reverse mutation assay (e.g Ames test) Method  3-Bacterial Reverse mutation assay (e.g Ames test) Method  3-Bacterial Reverse mutation assay (e.g Ames test) With and without Method  3-Bacterial Reverse mutation assay (e.g Ames test) With and without Method  3-Bacterial Reverse mutation assay Method  3-Bacterial Reverse		Metabolic activation / Exposure time	with and without
2-butanone oxime 96-29-7  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Species Method  Possible of Study / Route of administration Metabolic activation / Exposure time Species Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration Metabolic activation / Exposure time Method  Possible of Study / Route of administration		Method	EPA OPPTS 870.5265 (The Salmonella typhimurium
Type of study / Route of administration   mammalian cell gene mutation assay   with   Method   Method   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro   OECD Guideline 476 (In Vitro Mammalian Cells Gene Mammalian Cells Gene Mutation Assay   OECD Guideline 476 (In Vitro Mammalian Cells Gene Mutation Assay   OECD Guideline 471 (Bacterial Reverse Mutation Assay)   OECD Guideline 471 (Bacterial Reverse Muta			Bacterial Reverse Mutation Test)
Method   Nethod   N	2-butanone oxime	Result	
Method   Nethod   N	96-29-7	Type of study / Route of administration	mammalian cell gene mutation assay
2-butanone oxime 96-29-7  Result Metabolic activation / Exposure time Method  P6-29-7  Result Metabolic activation / Exposure time Method  P6-29-7  Result  Result Metabolic activation / Exposure time Method  P6-29-7  Result  Type of study / Route of administration Metabolic activation / Exposure time Method  P6-29-7  Result  Type of study / Route of administration Metabolic activation / Exposure time Species  Result  Type of study / Route of administration Metabolic activation / Exposure time Species  Type of study / Route of administration Metabolic activation / Exposure time Species  P6-29-7  Part of the department of the study / Route of administration Metabolic activation / Exposure time Species Method  PPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Result  Preaction products with silica 86611-44-9  Silane, dichlorodimethyl-, reaction products with silica 86611-44-9  Result  Resul			
2-butanone oxime 96-29-7  Metabolic activation / Exposure time Method  Pegative  Result  Type of study / Route of administration Metabolic activation / Exposure time Method  Pegative  Result  Type of study / Route of administration Metabolic activation / Exposure time  Result  Type of study / Route of administration Metabolic activation / Exposure time Species  Pegative  Pegative  Peroperty of the study / Route of administration Result  Type of study / Route of administration Metabolic activation / Exposure time Species  Pegative  Peroperty of the study / Route of administration Metabolic activation / Exposure time Species  Drosophila melanogaster  Method  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Pero OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosom			OECD Guideline 476 (In vitro Mammalian Cell Gene
Type of study / Route of administration   DNA damage and repair assay, unscheduled DNA synthesis in mammalian cells in vitro			l ·
Synthesis in mammalian cells in vitro	2-butanone oxime	Result	negative
Synthesis in mammalian cells in vitro	96-29-7	Type of study / Route of administration	
Method   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)			
Method   OECD Guideline 482 (Genetic Toxicology: DNA Damage and Repair, Unscheduled DNA Synthesis in Mammalian Cells In Vitro)		Metabolic activation / Exposure time	
2-butanone oxime 96-29-7  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Fat Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Species Method  Part of study / Route of administration Metabolic activation / Exposure time Species Method  Part of study / Route of administration Species Method  Part of study / Route of administration Species Method  Part of study / Route of administration Species Method  Part of study / Route of administration Species Method  Part of study / Route of administration Metabolic activation / Exposure time Method  Method  Method  Method  Method  Method  Method  Carbon black - Nano  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Carbon black - Nano  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Carbon black - Nano  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Carbon black - Nano Result Type of study / Route of administration Metabolic activation / Exposure time Method  Carbon black - Nano Result Type of study / Route of administration Metabolic activation / Exposure time Method  OECD Guideline 471 (Bacterial Reverse Mutation Assay) Method  OECD Guideline 471 (Bacterial Reverse Mutation Assay) Type of study / Route of administration Method  OECD Guideline 471 (Bacterial Reverse Mutation Assay) Type of study / Route of administration Method  OECD Guideline 471 (Bacterial Reverse Mutation Assay) Type of study / Route of administration Method  Type of study / Route of administration Method  OECD Guideline 471 (Bacterial Reverse Mutation Assay) Type of study / Route of administration Method  Type of study / Route of administration Method  OECD Guideline			OECD Guideline 482 (Genetic Toxicology: DNA Damage
2-butanone oxime 96-29-7    Result			
Type of study / Route of administration   Oral: gavage			and Repair, Unscheduled DIVA Synthesis in Manimalian
Type of study / Route of administration   Oral: gavage			
Metabolic activation / Exposure time   Species   rat	2-butanone oxime	Result	Cells In Vitro)
Species	2-butanone oxime 96-29-7		Cells In Vitro) negative
Method   EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)		Type of study / Route of administration	Cells In Vitro) negative
2-butanone oxime 96-29-7  Result negative 7-ype of study / Route of administration oral: feed Metabolic activation / Exposure time Species Drosophila melanogaster Method EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Result negative  Type of study / Route of administration in vitro mammalian chromosome aberration test with and without Method Chromosome Aberration Test  Carbon black - Nano  1333-86-4  Result negative  Type of study / Route of administration bacterial reverse mutation assay (e.g Ames test)  with and without  Method Chromosome Aberration Test  Description of Study / Route of administration bacterial reverse mutation assay (e.g Ames test)  With and without  Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Carbon black - Nano  Result negative  Type of study / Route of administration mammalian cell gene mutation assay		Type of study / Route of administration Metabolic activation / Exposure time	Cells In Vitro) negative oral: gavage
2-butanone oxime 96-29-7  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method Drosophila melanogaster EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Result Type of study / Route of administration Metabolic activation / Exposure time Method Ames Test Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Result Type of study / Route of administration Metabolic activation / Exposure time Method Chromosome Aberration Test Metabolic activation / Exposure time Method Chromosome Aberration Test Result Type of study / Route of administration Metabolic activation / Exposure time Method Chromosome Aberration Test Dacterial reverse mutation assay (e.g Ames test)  With and without Method Chromosome Aberration Test Dacterial reverse mutation assay (e.g Ames test) Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result Type of study / Route of administration Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay) Result Type of study / Route of administration Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay) Metabolic activation / Exposure of administration Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)		Type of study / Route of administration Metabolic activation / Exposure time Species	Cells In Vitro) negative oral: gavage rat
Type of study / Route of administration   Metabolic activation / Exposure time   Species   Drosophila melanogaster		Type of study / Route of administration Metabolic activation / Exposure time Species	Cells In Vitro) negative oral: gavage rat EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic
Metabolic activation / Exposure time Species Method EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9 Method Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Method Ames Test Result Type of study / Route of administration Metabolic activation / Exposure time Method Carbon black - Nano 1333-86-4  Type of study / Route of administration Metabolic activation / Exposure time Method Chromosome Aberration Test Description Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result DECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result Type of study / Route of administration Metabolic activation Assay)  Result Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result Type of study / Route of administration Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result Type of study / Route of administration Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result Type of study / Route of administration Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result Type of study / Route of administration Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Method Type of study / Route of administration Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Method Type of study / Route of administration Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)	96-29-7	Type of study / Route of administration Metabolic activation / Exposure time Species Method	Cells In Vitro) negative oral: gavage  rat EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)
Species   Drosophila melanogaster	96-29-7 2-butanone oxime	Type of study / Route of administration Metabolic activation / Exposure time Species Method Result	Cells In Vitro) negative oral: gavage  rat EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative
Method EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Metabolic activation / Exposure time Method Ames Test  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Metabolic activation / Exposure time megative  Type of study / Route of administration in vitro mammalian chromosome aberration test  Metabolic activation / Exposure time with and without  Method Chromosome Aberration Test  Result negative  Type of study / Route of administration pacterial reverse mutation assay (e.g Ames test)  Metabolic activation / Exposure time with and without  Metabolic activation / Exposure time matabolic activation Assay)  Result negative  Type of study / Route of administration pagative  Type of study / Route of administration p	96-29-7	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration	Cells In Vitro) negative oral: gavage  rat EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Metabolic activation / Exposure time / Exposure	96-29-7 2-butanone oxime	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Metabolic activation / Exposure time with and without  Method Ames Test  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Metabolic activation / Exposure time megative  Type of study / Route of administration in vitro mammalian chromosome aberration test  Metabolic activation / Exposure time with and without  Method Chromosome Aberration Test  Result negative  Type of study / Route of administration pagative  Type of study / Route of administration pagative  Type of study / Route of administration pagative  Type of study / Route of administration pacterial reverse mutation assay (e.g Ames test)  Metabolic activation / Exposure time with and without  Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Carbon black - Nano  Result negative  Type of study / Route of administration pagative	96-29-7 2-butanone oxime	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species	Cells In Vitro) negative oral: gavage  rat EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster
reaction products with silica 68611-44-9  Metabolic activation / Exposure time Method Ames Test  Result Type of study / Route of administration Method Ames Test  Result Type of study / Route of administration Method Ames Test  Result Type of study / Route of administration Metabolic activation / Exposure time Method Carbon black - Nano 1333-86-4  Carbon black - Nano Result Type of study / Route of administration Method Carbon black - Nano Result Type of study / Route of administration Method Carbon black - Nano Result Type of study / Route of administration Method Carbon black - Nano Result Method Result Method Result Resul	96-29-7 2-butanone oxime	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic
Metabolic activation / Exposure time   with and without     Method   Ames Test     Silane, dichlorodimethyl-, reaction products with silica     68611-44-9   Metabolic activation / Exposure time   megative     Type of study / Route of administration   in vitro mammalian chromosome aberration test     Metabolic activation / Exposure time   with and without     Method   Chromosome Aberration Test     Carbon black - Nano   Result   negative     1333-86-4   Type of study / Route of administration   bacterial reverse mutation assay (e.g Ames test)     Metabolic activation / Exposure time   with and without     Method   OECD Guideline 471 (Bacterial Reverse Mutation Assay)     Carbon black - Nano   Result   negative     1333-86-4   Type of study / Route of administration   mammalian cell gene mutation assay	2-butanone oxime 96-29-7	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis)
Method   Ames Test     Silane, dichlorodimethyl-, reaction products with silica   Result   negative     Type of study / Route of administration   mittro mammalian chromosome aberration test     Method   Method   Method   Method   Method   Method   Method     Carbon black - Nano   Result   negative     1333-86-4   Type of study / Route of administration   Method   Meth	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-,	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Result	Cells In Vitro) negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative
Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Result Type of study / Route of administration in vitro mammalian chromosome aberration test With and without Chromosome Aberration Test  Result negative  Type of study / Route of administration bacterial reverse mutation assay (e.g Ames test)  Metabolic activation / Exposure time with and without  Type of study / Route of administration bacterial reverse mutation assay (e.g Ames test)  Metabolic activation / Exposure time with and without  Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Carbon black - Nano  Result negative  Type of study / Route of administration mammalian cell gene mutation assay	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration	Cells In Vitro) negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test)
reaction products with silica 68611-44-9  Metabolic activation / Exposure time Method Carbon black - Nano 1333-86-4  Carbon black - Nano Result Type of study / Route of administration Method Chromosome Aberration Test Result Type of study / Route of administration Metabolic activation / Exposure time Method Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Carbon black - Nano Result Result Result Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result Type of study / Route of administration Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Result Type of study / Route of administration Memmalian cell gene mutation assay	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-,	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without
68611-44-9  Metabolic activation / Exposure time with and without  Method Chromosome Aberration Test  Carbon black - Nano 1333-86-4  Type of study / Route of administration bacterial reverse mutation assay (e.g Ames test)  Metabolic activation / Exposure time with and without  Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Carbon black - Nano Result negative  Type of study / Route of administration mammalian cell gene mutation assay	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test
Method Chromosome Aberration Test  Carbon black - Nano 1333-86-4  Type of study / Route of administration Metabolic activation / Exposure time Method  Carbon black - Nano  Carbon black - Nano Result  Method  Carbon black - Nano Result  Re	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-,	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Result Type of study / Route of administration Metabolic activation / Exposure time Method Result	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative
Carbon black - Nano 1333-86-4 Type of study / Route of administration Metabolic activation / Exposure time Method OECD Guideline 471 (Bacterial Reverse Mutation Assay) Carbon black - Nano Result negative Type of study / Route of administration mammalian cell gene mutation assay	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative in vitro mammalian chromosome aberration test
1333-86-4 Type of study / Route of administration bacterial reverse mutation assay (e.g Ames test)  Metabolic activation / Exposure time with and without  Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Carbon black - Nano Result negative  1333-86-4 Type of study / Route of administration mammalian cell gene mutation assay	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-,	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative in vitro mammalian chromosome aberration test with and without
Metabolic activation / Exposure time with and without  Method OECD Guideline 471 (Bacterial Reverse Mutation Assay)  Carbon black - Nano Result negative  Type of study / Route of administration mammalian cell gene mutation assay	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test
Method     OECD Guideline 471 (Bacterial Reverse Mutation Assay)       Carbon black - Nano     Result     negative       1333-86-4     Type of study / Route of administration     mammalian cell gene mutation assay	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Carbon black - Nano	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative
Carbon black - Nano Result negative Type of study / Route of administration mammalian cell gene mutation assay	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative bacterial reverse mutation assay (e.g Ames test)
1333-86-4 Type of study / Route of administration mammalian cell gene mutation assay	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Carbon black - Nano	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative bacterial reverse mutation assay (e.g Ames test) with and without
	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Carbon black - Nano 1333-86-4	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative bacterial reverse mutation assay (e.g Ames test) with and without Chromosome Aberration Test negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay)
Metabolic activation / Exposure time with and without	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Carbon black - Nano 1333-86-4  Carbon black - Nano	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative bacterial reverse mutation assay (e.g Ames test) with and without Ochromosome Aberration Test negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative
	2-butanone oxime 96-29-7  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Silane, dichlorodimethyl-, reaction products with silica 68611-44-9  Carbon black - Nano 1333-86-4  Carbon black - Nano	Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Species Method  Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration Metabolic activation / Exposure time Method Result Type of study / Route of administration	Cells In Vitro)  negative oral: gavage  rat  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative oral: feed  Drosophila melanogaster  EPA OPPTS 870.5385 (In Vivo Mammalian Cytogenetic Tests: Bone Marrow Chromosomal Analysis) negative bacterial reverse mutation assay (e.g Ames test) with and without Ames Test negative in vitro mammalian chromosome aberration test with and without Chromosome Aberration Test negative bacterial reverse mutation assay (e.g Ames test) with and without Ochromosome Aberration Test negative bacterial reverse mutation assay (e.g Ames test) with and without OECD Guideline 471 (Bacterial Reverse Mutation Assay) negative mammalian cell gene mutation assay

	Method	OECD Guideline 476 (In vitro Mammalian Cell Gene Mutation Test)
Carbon black - Nano	Result	negative
1333-86-4	Type of study / Route of administration	sister chromatid exchange assay in mammalian cells
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 479 (Genetic Toxicology: In Vitro Sister
		Chromatid Exchange Assay in Mammalian Cells)
Carbon black - Nano	Result	negative
1333-86-4	Type of study / Route of administration	in vitro mammalian cell micronucleus test
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 487 (In vitro Mammalian Cell Micronucleus Test)
Carbon black - Nano	Result	negative
1333-86-4	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 490 (In Vitro Mammalian Cell Gene
	Wethod	Mutation Tests Using the Thymidine Kinase Gene)
Carbon black - Nano	Result	negative
1333-86-4	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
	Method	OECD Guideline 489 (In Vivo Mammalian Alkaline Comet Assay)
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	bacterial gene mutation assay
330-07-2	Metabolic activation / Exposure time	with and without
	Method	OECD Guideline 471 (Bacterial Reverse Mutation Assay)
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	in vitro mammalian chromosome aberration test
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 473 (In vitro
	Wethou	Mammalian Chromosome Aberration Test)
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	mammalian cell gene mutation assay
	Metabolic activation / Exposure time	with and without
	Method	equivalent or similar to OECD Guideline 476 (In vitro
	Wethod	Mammalian Cell Gene Mutation Test)
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	inhalation
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 475
		(Mammalian Bone Marrow Chromosome Aberration Test
octamethylcyclotetrasiloxane	Result	negative
556-67-2	Type of study / Route of administration	oral: gavage
	Metabolic activation / Exposure time	
	Species	rat
	Method	equivalent or similar to OECD Guideline 478 (Genetic
		T courvaient of similar to Orxal Condenie 476 Orenene

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# LOCTITE SI 5900 BK 300ML

# Repeated dose toxicity:

Calcium carbonate	Result	NOAEL=1,000 mg/kg
471-34-1	Route of application	oral: gavage
	Exposure time / Frequency of treatment	48 ddaily
	Species	rat
	Method	OECD Guideline 422 (Combined Repeated Dose Toxicity
		Study with the Reproduction / Developmental Toxicity
		Screening Test)
Butan-2-one O,O',O"-	Result	LOAEL=40 mg/kg
(vinylsilylidyne)trioxime	Route of application	oral: gavage
2224-33-1	Exposure time / Frequency of treatment	13 w5 d/week
	Species	rat
	Method	EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
2-butanone oxime	Result	LOAEL=40 mg/kg
96-29-7	Route of application	oral: gavage
	Exposure time / Frequency of treatment	13 w5 d/week
	Species	rat
	Method	EPA OPPTS 870.3100 (90-Day Oral Toxicity in Rodents)
Silane, dichlorodimethyl-,	Result	NOAEL=500 mg/kg
reaction products with silica	Route of application	oral: feed
68611-44-9	Exposure time / Frequency of treatment	5-8 wdaily
	Species	rat
	Method	not specified
Carbon black - Nano	Result	NOAEL=> 1,000 mg/kg
1333-86-4	Route of application	oral: gavage
	Exposure time / Frequency of treatment	90 ddaily
	Species	rat
	Method	OECD Guideline 408 (Repeated Dose 90-Day Oral
		Toxicity in Rodents)
Carbon black - Nano	Result	NOAEL=1 mg/m3
1333-86-4	Route of application	inhalation
	Exposure time / Frequency of treatment	13 w6 h/d, 5 d/w
	Species	rat
	Method	not specified
octamethylcyclotetrasiloxane	Result	LOAEL=35 ppm
556-67-2	Route of application	inhalation
	Exposure time / Frequency of treatment	6 h nose only inhalation5 days/week for 13 weeks
	Species	rat
	Method	OECD Guideline 412 (Repeated Dose Inhalation Toxicity:
		28/14-Day)
octamethylcyclotetrasiloxane	Result	NOAEL=960 mg/kg
556-67-2	Route of application	dermal
	Exposure time / Frequency of treatment	3 w5 d/w
	Species	rabbit
	Method	equivalent or similar to OECD Guideline 410 (Repeated
	** **	Dose Dermal Toxicity: 21/28-Day Study)

# **Section 12. Ecological information**

**General ecological information:** Do not empty into drains / surface water / ground water.

**Ecotoxicity:** 

**Chronic aquatic toxicity:** This product has no known eco-toxicological effects.

**Toxicity:** 

Calcium carbonate	Value type	LC50
471-34-1	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Oncorhynchus mykiss
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)

Calcium carbonate	Value type	EC50
471-34-1	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Calcium carbonate 471-34-1	Value type	EC50
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	14 mg/l
	Acute Toxicity Study Exposure time	Algae 72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Calcium carbonate	Value type	EC50
471-34-1	Value	Toxicity > Water solubility
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge of a predominantly domestic sewage
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
Butan-2-one O,O',O"-	Value type	LC50
(vinylsilylidyne)trioxime	Value	> 560 mg/l
2224-33-1	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
	Value type	NOEC
	Value	50 mg/l
	Acute Toxicity Study	Fish
	Exposure time	14 d
	Species	Oryzias latipes
Posterio 2 - 11 - 0   0   0	Method	OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
Butan-2-one O,O',O"- (vinylsilylidyne)trioxime	Value type Value	EC50 201 mg/l
2224-33-1	Acute Toxicity Study	Daphnia
2221 33 1	Exposure time	48 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Butan-2-one O,O',O"-	Value type	EC50
(vinylsilylidyne)trioxime	Value	94 mg/l
2224-33-1	Acute Toxicity Study	Algae
2224-33-1	Acute Toxicity Study Exposure time	Algae 72 h
2224-33-1		
2224-33-1	Exposure time	72 h
2224-33-1	Exposure time Species	72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC
2224-33-1	Exposure time Species Method Value type Value	72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 30 mg/l
2224-33-1	Exposure time Species Method Value type Value Acute Toxicity Study	72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 30 mg/l Algae
2224-33-1	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 30 mg/l Algae 72 h
2224-33-1	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 30 mg/I Algae 72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/l  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/I  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50
	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value	72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) NOEC 30 mg/l Algae 72 h Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata) OECD Guideline 201 (Alga, Growth Inhibition Test) LC50 320 - 1,000 mg/l
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/l  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/l  Fish
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/I  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/I  Fish  96 h
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/l  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/l  Fish  96 h  Leuciscus idus
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/I  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/I  Fish  96 h  Leuciscus idus  DIN 38412-15
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/I  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/I  Fish  96 h  Leuciscus idus  DIN 38412-15  NOEC
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Value type Value	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/I  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/I  Fish  96 h  Leuciscus idus  DIN 38412-15  NOEC  50 mg/I
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/I  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/I  Fish  96 h  Leuciscus idus  DIN 38412-15  NOEC  50 mg/I  Fish
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/l  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/l  Fish  96 h  Leuciscus idus  DIN 38412-15  NOEC  50 mg/l  Fish  14 d
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/l  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/l  Fish  96 h  Leuciscus idus  DIN 38412-15  NOEC  50 mg/l  Fish  14 d  Oryzias latipes
2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/l  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/l  Fish  96 h  Leuciscus idus  DIN 38412-15  NOEC  50 mg/l  Fish  14 d
2-butanone oxime 96-29-7	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Species Method Exposure time Species Method Exposure time Species Method	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/l  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/l  Fish  96 h  Leuciscus idus  DIN 38412-15  NOEC  50 mg/l  Fish  14 d  Oryzias latipes  OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)
2-butanone oxime 96-29-7  2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/l  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/l  Fish  96 h  Leuciscus idus  DIN 38412-15  NOEC  50 mg/l  Fish  14 d  Oryzias latipes  OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)  EC50
2-butanone oxime 96-29-7  2-butanone oxime	Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Acute Toxicity Study Exposure time Species Method Value type Value Value Value type Value	72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  NOEC  30 mg/l  Algae  72 h  Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)  OECD Guideline 201 (Alga, Growth Inhibition Test)  LC50  320 - 1,000 mg/l  Fish  96 h  Leuciscus idus  DIN 38412-15  NOEC  50 mg/l  Fish  14 d  Oryzias latipes  OECD Guideline 204 (Fish, Prolonged Toxicity Test: 14-day Study)  EC50  > 500 mg/l

	Method	ELL Mothed C 2 (Agute Toxicity for Danhnia)
2-hutanone ovime	Value type	EU Method C.2 (Acute Toxicity for Daphnia) EC50
2-butanone oxime 96-29-7	Value	11.8 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus capricornutum
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	NOEC
	Value	2.56 mg/l
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Scenedesmus capricornutum
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
2-butanone oxime	Value type	EC10
96-29-7	Value	177 mg/l
70 27 7	Acute Toxicity Study	Bacteria
	Exposure time	17 h
	Species	17.11
	Method	DIN 38412, part 8 (Pseudomonas Zellvermehrungshemm-Test)
Silane, dichlorodimethyl-, reaction	Value type	LC50
products with silica	Value	> 10,000 mg/l
68611-44-9	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Brachydanio rerio (new name: Danio rerio)
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Silane, dichlorodimethyl-, reaction	Value type	EC50
products with silica	Value	> 10,000 mg/l
68611-44-9	Acute Toxicity Study	Daphnia
00011 117	Exposure time	24 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Carbon black - Nano	Value type	LC50
1333-86-4	Value	Toxicity > Water solubility
1333-00-4	Acute Toxicity Study	Fish
	Exposure time	96 h
	Species	Danio rerio
	Method	OECD Guideline 203 (Fish, Acute Toxicity Test)
Carbon black - Nano	Value type	EC50
1333-86-4	Value	Toxicity > Water solubility
1333 00 4	Acute Toxicity Study	Daphnia
	Exposure time	24 h
	Species	Daphnia magna
	Method	OECD Guideline 202 (Daphnia sp. Acute Immobilisation Test)
Carbon black - Nano	Value type	EC50
1333-86-4	Value	Toxicity > Water solubility
1333-60-4	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
	Value type	EC10
	Value type Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	72 h
	Species	Desmodesmus subspicatus
	Method	OECD Guideline 201 (Alga, Growth Inhibition Test)
Carbon black - Nano	Value type	EC0
1333-86-4	Value	Toxicity > Water solubility
1555-00-4	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge, domestic
	Method	OECD Guideline 209 (Activated Sludge, Respiration Inhibition Test)
octamethylcyclotetrasiloxane	Value type	NOEC
556-67-2	Value	0.0044 mg/l
330-07-2	Acute Toxicity Study	Fish
		93 d
	Exposure time Species	Salmo gairdneri (new name: Oncorhynchus mykiss)
	Method	EPA OPPTS 797.1600 (Fish Early Life Stage Toxicity Test)
		LC50
	Value type	
	Value	Toxicity > Water solubility
	Acute Toxicity Study	Fish
	Exposure time	96 h

	Species	Oncorhynchus mykiss
	Method	EPA OTS 797.1400 (Fish Acute Toxicity Test)
octamethylcyclotetrasiloxane	Value type	EC50
556-67-2	Value	Toxicity > Water solubility
	Acute Toxicity Study	Daphnia
	Exposure time	48 h
	Species	Daphnia magna
	Method	EPA OTS 797.1300 (Aquatic Invertebrate Acute Toxicity Test,
		Freshwater Daphnids)
octamethylcyclotetrasiloxane	Value type	EC50
556-67-2	Value	Toxicity > Water solubility
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
	Value type	EC10
	Value	0.022 mg/l
	Acute Toxicity Study	Algae
	Exposure time	96 h
	Species	Selenastrum capricornutum (new name: Pseudokirchneriella subcapitata)
	Method	EPA OTS 797.1050 (Algal Toxicity, Tiers I and II)
octamethylcyclotetrasiloxane	Value type	EC50
556-67-2	Value	Toxicity > Water solubility
	Acute Toxicity Study	Bacteria
	Exposure time	3 h
	Species	activated sludge
	Method	ISO 8192 (Test for Inhibition of Oxygen Consumption by Activated
		Sludge)

# Persistence and degradability:

Butan-2-one O,O',O"-	Result	not readily biodegradable.
(vinylsilylidyne)trioxime	Route of application	aerobic
2224-33-1	Degradability	26 %
	Method	OECD Guideline 301 C (Ready Biodegradability: Modified MITI Test (I))
2-butanone oxime	Result	inherently biodegradable
96-29-7	Route of application	aerobic
	Degradability	70 %
	Method	OECD Guideline 302 B (Inherent biodegradability: Zahn-Wellens/EMPA
		Test)
octamethylcyclotetrasiloxane	Result	not readily biodegradable.
556-67-2	Route of application	aerobic
	Degradability	3.7 %
	Method	OECD Guideline 310 (Ready BiodegradabilityCO2 in Sealed Vessels
		(Headspace Test)

# ${\bf Bioaccumulative\ potential\ /\ Mobility\ in\ soil:}$

Calcium carbonate	LogPow	-2.12
471-34-1	Temperature	
	Method	not specified
2-butanone oxime	Bioconcentration factor (BCF)	0.5 - 0.6
96-29-7	Exposure time	42 d
	Species	Oryzias latipes
	Temperature	25 °C
	Method	OECD Guideline 305 C (Bioaccumulation: Test for the Degree of Bioconcentration in Fish)
2-butanone oxime	LogPow	0.65
96-29-7	Temperature	25 °C
	Method	OECD Guideline 107 (Partition Coefficient (n-octanol / water), Shake Flask Method)
octamethylcyclotetrasiloxane	Bioconcentration factor (BCF)	12,400
556-67-2	Exposure time	28 d
	Species	Pimephales promelas
	Temperature	
	Method	EPA OTS 797.1520 (Fish Bioconcentration Test-Rainbow Trout)
octamethylcyclotetrasiloxane	LogPow	6.98
556-67-2	Temperature	21.7 °C
	Method	other guideline:

# Section 13. Disposal considerations

### **Product**

### Method of disposal:

Dispose of in accordance with local and national regulations.

### **Packaging**

### Disposal of uncleaned packages:

Packaging that cannot be cleaned are to be disposed of in the same manner as the product.

# Section 14. Transport information

### Road transport ADR:

Not dangerous goods

# Railroad transport RID:

Not dangerous goods

### Inland water transport ADN:

Not dangerous goods

### Marine transport IMDG:

Not dangerous goods

### Air transport IATA:

Not dangerous goods

# **Section 15. Regulatory information**

# **Regulatory Information:**

Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555

# Global inventory status:

Regulatory list	Notification
TSCA	yes
DSL	yes
KECI (KR)	yes
ENCS (JP)	yes
ISHL (JP)	yes
IECSC	yes
AIIC	yes
TCSI	yes
PICCS (PH)	yes
EINECS	yes

## Section 16. Other information

#### Disclaimer:

This Safety Data Sheet has been generated based on Ministry of Industry Notice. The system to classify and communicate the hazard of hazardous material, BE. 2555 only. No warranty or representation of any kind is given with respect to the substantive or export laws of any other jurisdiction or country. Please confirm that the information provided herein conforms to the substantive export or other law of any other jurisdiction prior to export. Please contact Henkel Product Safety and Regulatory Affairs for additional assistance.

This information is based on our current level of knowledge and relates to the product in the state in which it is delivered. It is intended to describe our products from the point of view of safety requirements and is not intended to guarantee any particular

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