

Dirko HT oximic Version: 1.1

Revision Date: 2020-02-17

SAFETY DATA SHEET

According to regulation (EC) n° 1907/2006 Annex II

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier:

Product name: Dirko HT black 20ml
Dirko HT black 70ml
Dirko HT grey 70ml
Dirko HT grey 310ml
Dirko HT beige 70 ml
Product No.: 458.422
006.553
006.553
036.164
030.793

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

Identified uses: Used for making joints, sealing and gluing.

Uses advised against: None known.

1.3 Details of the supplier of the safety data sheet:

ElringKlinger AG Max-Eyth-Str. 2

72581 Dettingen/Erms - Deutschland

E-Mail: det.iam.sdb@elringklinger.com

1.4 Emergency telephone number:

Giftinformationszentrum (GIZ-Nord) Zentrum Pharmakologie und Toxikologie der Universität Göttingen	Robert-Koch Strasse 40 D-37075 Göttingen	+49 551 19240 (German/English)			
SECTION 2: Hazards identification					

2.1 Classification of the substance or mixture

The product has been classified according to the legislation in force.

Classification according to Regulation (EC) No 1272/2008 as amended.

Health Hazards

Specific Target Organ Toxicity - Category 1 H372: Causes damage to organs through Prolonged or repeated exposure.

Supplemental label information

EUH208: Contains 3-Aminopropyltriethoxysilane. May produce an allergic

reaction.

Hazard summary

Physical Hazards: No data available.

Health Hazards

Inhalation: Quartz/cristobalite: When encapsulated in a polymer, is not expected to

pose a health hazard when processed under normal conditions of use. Although classified according to EC criteria, this product is exempt from

labelling according to article 23 and Annex 1 (section 1.3.4.1) of

regulation (CE) n°1272/2008.



Version: 1.1

Revision Date: 2020-02-17

Eye contact: May be irritating.

Skin contact: The product contains a small amount of sensitizing substance which may

provoke an allergic reaction among sensitive individuals in contact with

skin.

Ingestion: No specific symptoms noted.

Other Health Effects: No other information noted.

Environmental Hazards: Not regarded as dangerous for the environment.

2.3 Other hazards Meets vPvB criteria Meets PBT (persistent/bioaccumulative/toxic) criteria

Substance(s) formed under the conditions of use:

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration	Notes
2-Pentanone, oxime	<=5%	623-40-5		No data available.	
Ethanol	<=1%	64-17-5		01- 2119457610- 43-XXXX	#

SECTION 3: Composition/information on ingredients

3.2 Mixtures

General information: Mixture of polydimethylsiloxanes, silica and curing agents.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	M-Factor:	Notes
Quartz	20 - <50%	14808-60-7	238-878-4	Exempt	No data available.	#
2-Pentanone, O,O',O"- (ethenylsilylidyne)trio xime	1 - <5%	58190-62-8		01- 2120006148- 66-XXXX	No data available.	
2-Pentandione, O,O',O"- (methylsilylidyne)triox ime	1 - <5%	37859-55-5		01- 2120004323- 76-XXXX	No data available.	
3- Aminopropyltriethoxy silane	0,1 - <1%	919-30-2	213-048-4	01- 2119480479- 24-XXXX	No data available.	
Decamethylcyclopent asiloxane	0,1 - <1%	541-02-6	208-764-9	01- 2119511367- 43-0003	No data available.	vPvB
Dodecamethylcycloh exasiloxane	0,1 - <1%	540-97-6	208-762-8	01- 2119517435- 42-0002	No data available.	vPvB
Octamethylcyclotetra siloxane	0,1 - <1%	556-67-2	209-136-7	01- 2119529238- 36-0002	No data available.	# PBT, vPvB

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



Version: 1.1

Revision Date: 2020-02-17

volume

This substance has workplace exposure limit(s).

Classification

Chemical name	Classification	Notes
Quartz	STOT RE 1 H372;	No data available.
2-Pentanone, O,O',O"- (ethenylsilylidyne)trioxime	Acute Tox. 4 H302; Eye Irrit. 2 H319;	No data available.
2-Pentandione, O,O',O"- (methylsilylidyne)trioxime	Acute Tox. 4 H302; Eye Irrit. 2 H319;	No data available.
3-Aminopropyltriethoxysilane	Skin Sens. 1 H317; Acute Tox. 4 H302; Skin Corr. 1B H314;	No data available.
Decamethylcyclopentasiloxane	None known.	No data available.
Dodecamethylcyclohexasiloxa ne	None known.	No data available.
Octamethylcyclotetrasiloxane	Flam. Liq. 3 H226; Repr. 2 H361f; Aquatic Chronic 4 H413;	No data available.

CLP: Regulation No. 1272/2008.

The full text for all H-statements is displayed in section 16.

SECTION 4: First aid measures

General: Get medical attention if symptoms occur. Contaminated clothing to be

placed in closed container until disposal or decontamination.

4.1 Description of first aid measures

Inhalation: Move into fresh air and keep at rest.

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

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

water. Continue to rinse for at least 15 minutes.

Ingestion: Do not induce vomiting. Rinse mouth thoroughly.

4.2 Most important symptoms and effects, both acute and

delayed:

None known.

4.3 Indication of any immediate medical attention and special treatment needed

Hazards: No specific recommendations.

Treatment: No specific recommendations.

SECTION 5: Firefighting measures

General Fire Hazards: No specific recommendations.

2020-02-17 EN 3/17



Version: 1.1

Revision Date: 2020-02-17

5.1 Extinguishing media

Suitable extinguishing

media:

Extinguish with foam, carbon dioxide or dry powder.

Unsuitable extinguishing

media:

Do not use water as an extinguisher.

5.2 Special hazards arising from the substance or

mixture:

For further information, refer to section 10: "Stability and Reactivity".

5.3 Advice for firefighters

Special fire fighting

procedures:

Water spray should be used to cool containers.

Special protective

equipment for fire-fighters:

Self-contained breathing apparatus and full protective clothing must

be worn in case of fire.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

6.1.1 For non-emergency

personnel:

Use personal protective equipment. Do not breathe vapor. See Section 8 of

the SDS for Personal Protective Equipment. Ventilate the area.

6.1.2 For emergency

responders:

No data available.

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

ground.

6.3 Methods and material for containment and cleaning

up:

Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf.: § 9) Flush

area with plenty of water. Incinerate in suitable combustion chamber.

6.4 Reference to other

sections:

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

Section 13 of the SDS.

SECTION 7: Handling and storage

7.1 Precautions for safe

handling:

Adequate ventilation should be provided so that exposure limits are

not exceeded.

7.2 Conditions for safe storage,

including any incompatibilities:

Avoid discharge into drains, water courses or onto the ground. Store in tightly closed original container. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Avoid contact with oxidizing agents. Vulcanizes at room temperature on contact with moisture in the air. For further information, refer to section 10: "Stability and Reactivity". Suitable containers: Steel

drums coated with epoxy-resin.

7.3 Specific end use(s): No data available.

SECTION 8: Exposure controls/personal protection

8.1 Control Parameters Occupational Exposure Limits

Quartz/cristobalite: When encapsulated in a polymer, is not expected to pose a health hazard when processed under normal conditions of use.



Version: 1.1

Revision Date: 2020-02-17

Additional exposure limits under the conditions of use

Chemical name	Туре	Exposure Limit Values		Source
Ethanol	TWA	1 000 ppm	1 920 mg/m3	UK. EH40 Workplace Exposure Limits (WELs) (2007)

8.2 Exposure controls

Appropriate Engineering

Controls:

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Use engineering controls to reduce air contamination to permissible exposure level. When working with heated oil, mechanical ventilation may be required.

Individual protection measures, such as personal protective equipment

General information: Provide sufficient ventilation during operations which cause vapor

formation.

Eye/face protection: Safety Glasses.

Skin protection

Hand Protection: Material: Rubber gloves are recommended.

Other: It is a good industrial hygiene practice to minimize skin contact. Wear

appropriate clothing to prevent any possibility of skin contact.

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

Hygiene measures: Provide eyewash station and safety shower.

Environmental Controls: No data available.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance

Physical state:

Form: thixotropic
Color: black; grey; beige
Odor: No data available.
Odor Threshold: No data available.
pH: No data available.

pH:No data available.Melting Point:No data available.Boiling Point:No data available.

Flash Point: estimated > 150 °C (Closed cup according to method

Paste

Afnor T 60103.)

Evaporation Rate:

Flammability (solid, gas):

Flammability Limit - Upper (%):

Flammability Limit - Lower (%):

Vapor pressure:

Vapor density (air=1):

No data available.

No data available.

No data available.

No data available.

Density: Approximate 1,25 kg/dm3 (20 °C)

Solubility(ies)

Solubility in Water: Practically Insoluble



Version: 1.1

Revision Date: 2020-02-17

Solubility (other): Acetone: Very slightly soluble

Alcohol: Very slightly soluble Aliphatic hydrocarbons: Dispersible Aromatic hydrocarbons: Dispersible Chlorinated solvents: Dispersible

Partition coefficient (n-octanol/water):

Autoignition Temperature:

No data available.

No data available.

No data available.

Viscosity:

No data available.

No data available.

No data available.

No data available.

Oxidizing properties: According to the data on the components Not considered

as oxidizing. (evaluation by structure-activity relationship)

9.2 Other information: No data available.

SECTION 10: Stability and reactivity

10.1 Reactivity: Vulcanizes at room temperature on contact with moisture in the air.

10.2 Chemical Stability: Stable at room temperature provided it is not in contact with air.

10.3 Possibility of hazardous

reactions:

No data available.

10.4 Conditions to avoid: No other information noted.

10.5 Incompatible Materials: Strong oxidizing agents. Water.

10.6 Hazardous Decomposition Thermal decomposition or combustion may liberate carbon oxides and

Products: other toxic gases or vapors. Amorphous silica.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation: No data available.

Ingestion: No data available.

Skin contact: No data available.

Eye contact: No data available.

11.1 Information on toxicological effects:

Acute toxicity:

Oral:

Product: ATEmix (): 8 597 mg/kg

Dermal:

Product: Not classified for acute toxicity based on available data.

Inhalation:

Product: Not classified for acute toxicity based on available data.

2020-02-17 EN 6/17



Version: 1.1

Revision Date: 2020-02-17

Repeated dose toxicity:

Product: Composition/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"- NOAEL (Rat(Female, Male), Oral): 18 mg/kg Method: OECD 422

(ethenylsilylidyne)trioxime Subacute exposure

NOAEL (Rat(Female, Male), Oral): 13 mg/kg Method: OECD 408

Subchronic exposure

2-Pentandione, O,O',O"- NOAEL (Rat(Female, Male), Oral): 17 mg/kg Method: OECD 422

(methylsilylidyne)trioxime Subacute exposure

NOAEL (Rat(Female, Male), Oral): 13 mg/kg Method: OECD 408

Subchronic exposure

3-aminopropyltriethoxysilane NOAEL (Rat(Female, Male), Oral): 200 mg/kg Method: OECD 408

LOAEL (Rat(Female, Male), Oral): 600 mg/kg Subchronic exposure

Decamethylcyclopentasiloxan

е

NOAEL (Rat(Female, Male), Oral): >= 1 000 mg/kg Method: OECD

408 Subchronic exposure

NOAEL (Rat(Female, Male), Inhalation - vapour): >= 2,42 mg/l

Method: OECD 453 Chronic exposure

NOAEL (Rat(Female, Male), Dermal): >= 1 600 mg/kg

Method: OECD 410 Subacute exposure

Dodecamethylcyclohexasiloxa

ne

NOAEL (Rat(Female, Male), Oral): >= 1 000 mg/kg Method: OECD

422 Subacute exposure

NOAEL (Rat(Female, Male), Inhalation - vapour): 0,0182

mg/l Method: OECD 413 Subchronic exposure

Octamethylcyclotetrasiloxane NOAEL (Rat(Female, Male), Inhalation - vapour): 1,82 mg/l

Method: Similar to OECD 453 Chronic exposure

NOAEL (Rabbit(Female, Male), Dermal): >= 960 mg/kg Method:

Similar to OECD 410 Subacute exposure

Skin Corrosion/Irritation:

Product: Composition/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"-

OECD 404 (Rabbit): Not irritating Results obtained on a similar

(ethenylsilylidyne)trioxime product.

2-Pentandione, O,O',O"-

(methylsilylidyne)trioxime

OECD 404 (Rabbit): Not irritating

3-aminopropyltriethoxysilane OECD 404 (Rabbit, 1 h): Corrosive

Decamethylcyclopentasiloxane OECD 404 (Rabbit): Not irritating

Dodecamethylcyclohexasiloxa OECD 404 (Rabbit): Not irritating

ne

Octamethylcyclotetrasiloxane Similar to OECD 404 (Rabbit): Not irritating

Serious Eye Damage/Eye Irritation:

2020-02-17 EN 7/17



Version: 1.1

Revision Date: 2020-02-17

Product: Com position/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"- OECD 405 (Rabbit): Irritant. Results obtained on a similar product.

(ethenylsilylidyne)trioxime

2-Pentandione, O,O',O"- OECD 405 (Rabbit): Irritant. Results obtained on a similar product.

(methylsilylidyne)trioxime

3-aminopropyltriethoxysilane OECD 405 (Rabbit) : Corrosive.

Decamethylcyclopentasiloxane OECD 405 (Rabbit): Not irritating

Dodecamethylcyclohexasiloxa OECD 405 (Rabbit): Not irritating

ne

Octamethylcyclotetrasiloxane OECD 405 (Rabbit): Not irritating

Respiratory or Skin

Sensitization:

Product: Com position/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"- OECD 406 (Guinea PigNot a skin sensitizer.) : Results obtained on

(ethenylsilylidyne)trioxime a similar product.

2-Pentandione, O,O',O"- OECD 406 (Guinea PigNot a skin sensitizer.) : Results obtained on

(methylsilylidyne)trioxime a similar product.

3-am inopropyltriethoxysilane OECD 406 (Guinea PigMay cause an allergic skin reaction.):

Decamethylcyclopentasiloxane OECD 429 (Mouse): Not a skin sensitizer.

Dodecamethylcyclohexasiloxa OECD 406 (Guinea Pig): Not a skin sensitizer.

ne

Octamethylcyclotetrasiloxane OECD 406 (Guinea Pig): Not a skin sensitizer.

2020-02-17 EN 8/17



Version: 1.1

Revision Date: 2020-02-17

Germ Cell Mutagenicity:

In vitro:

Product:

Com position/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"-(ethenylsilylidyne)trioxime Bacterial reverse mutation test (OECD 471): No mutagenic effects. with

and without metabolic activation

In vitro gene mutations test on mammalian cells: (OECD 476): No mutagenic effects. with and without metabolic activationResults

obtained on a similar product.

Chromosomal aberration (OECD 473): positive with metabolic activation Negative without metabolic activationResults obtained on a

similar product.

2-Pentandione, O,O',O"-(methylsilylidyne)trioxime Bacterial reverse mutation test (OECD 471): No mutagenic effects.

with and without metabolic activation

Chromosomal aberration (OECD 473): positive with metabolic activation Negative without metabolic activation In vitro gene mutations test on mammalian cells: (OECD 476): No mutagenic effects. with and without metabolic activation

3-aminopropyltriethoxysilane Bacteria (OECD 471): No mutagenic effects. with and without metabolic

activation

Chromosomal aberration (OECD 473): No clastogenic effect. with and

without metabolic activation

In vitro gene mutations test on mammalian cells: (OECD 476): No

mutagenic effects. with and without metabolic activation

Decamethylcyclopentasiloxa

ne

Bacterial reverse mutation test (OECD 471): No mutagenic components identified. with and without metabolic activation In vitro gene mutations test on mammalian cells: (OECD 476): No mutagenic components identified. with and without metabolic activation Chromosomal aberration (OECD 473): No clastogenic effect. with and

without metabolic activation

Dodecamethylcyclohexasilox

ane

Bacterial reverse mutation test (OECD 471): No mutagenic effects. with

and without metabolic activation

In vitro gene mutations test on mammalian cells: (OECD 476): No

mutagenic effects. with and without metabolic activation

Octamethylcyclotetrasiloxan

е

Bacterial reverse mutation test (OECD 471): No mutagenic effects. with

and without metabolic activation

In vitro gene mutations test on mammalian cells: (Similar to OECD 476): No mutagenic effects. with and without metabolic activation In vitro mammalian chromosomal aberration test (Similar to OECD 473): No clastogenic effect. with and without metabolic activation

In vivo:

Product: No data available.

Specified substance(s):

2-Pentanone, O,O',O"-(ethenylsilylidyne)trioxime Mammalian erythrocyte micronucleus test (OECD 474): Results obtained on a similar product.negative

2020-02-17 EN 9/17



Version: 1.1

Revision Date: 2020-02-17

2-Pentandione, O,O',O"-(methylsilylidyne)trioxime Mammalian erythrocyte micronucleus test (OECD 474): negative

3-aminopropyltriethoxysilane Mammalian erythrocyte micronucleus test (OECD 474): No mutagenic

effects.

Decamethylcyclopentasiloxa

ne

Mammalian erythrocyte micronucleus test (OECD 474): negative Unscheduled DNA Synthesis (UDS) Test with mammalian liver cells

in vivo (OECD 486): negative

Dodecamethylcyclohexasilox

ane

Mammalian erythrocyte micronucleus test (OECD 474): No mutagenic

effects.

Octamethylcyclotetrasiloxan

Mammalian bone marrow chromosomal aberration test (Similar to

OECD 475): negative

Rodent dominant Lethal test (Similar to OECD 478): negative

Carcinogenicity:

Product:

No data available.

Reproductive toxicity:

Product:

Com position/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"-

(ethenylsilylidyne)trioxime

Not classified

2-Pentandione, O,O',O"-

(methylsilylidyne)trioxime

Not classified

3-aminopropyltriethoxysilane Not classified

Decamethylcyclopentasiloxa

ne

Not classified

Dodecamethylcyclohexasilox

ane

Not classified

Octamethylcyclotetrasiloxan

Suspected of damaging fertility.

Reproductive toxicity

(Fertility):

Product:

Com position/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"-(ethenylsilylidyne)trioxime Fertility study 1 generation Rat Female, Male (Ingestion): NOAEL (parent): > 103 mg/kg NOAEL (F1): NOAEL (F2): Method: OECD 415

Results obtained on a similar product.



Dirko HT oximic Version: 1.1

Revision Date: 2020-02-17

2-Pentandione, O,O',O"-(methylsilylidyne)trioxime Fertility study 1 generation Rat Female, Male (Ingestion): NOAEL (parent): > 99 mg/kg NOAEL (F1): NOAEL (F2): Method: OECD 415

Results obtained on a similar product.

Decamethylcyclopentasiloxane Fertility study 2 generations. Rat Female, Male (Inhalation - vapor):

NOAEL (parent): > 2,496 mg/l NOAEL (F1): 2,496 mg/l NOAEL (F2):

Method: OECD 416

Dodecamethylcyclohexasiloxa Reproduction/developmental toxicity screening test Rat Female, Male

ne

(Gavage (Oral)): NOAEL (parent): >= 1 000 mg/kg NOAEL (F1): 1 000 mg/kg NOAEL (F2): Method: OECD 422 The product is not considered

to affect fertility.

Octamethylcyclotetrasiloxane

Fertility study 2 generations. Rat Female, Male (Inhalation): NOAEL (parent): 3,64 mg/l NOAEL (F1): 3,64 mg/l NOAEL (F2): Method:

Similar to OECD 416 Effects on fertility

Developmental toxicity (Teratogenicity):

Product:

Com position/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"-(ethenylsilylidyne)trioxime Rat (Ingestion): > NOAEL (terato): > 103 mg/kg NOAEL (mater): 103 mg/kg Method: According to a standardised method. Results

obtained on a similar product.

2-Pentandione, O,O',O"-

(methylsilylidyne)trioxime

Rat > NOAEL (terato): > 99 mg/kg NOAEL (mater): 99 mg/kg Method:

According to a standardised method. Results obtained on a similar

product.

3-aminopropyltriethoxysilane

Rat (Ingestion): NOAEL (terato): 100 mg/kg NOAEL (mater): 100 mg/kg Method: OECD 414 The product is not considered to be toxic for

development.

Dodecamethylcyclohexasiloxa Rabbit (Gavage (Oral)): >= NOAEL (terato): >= 1 000 mg/kg NOAEL (mater): 1 000 mg/kg Method: OECD 414 Rat (Gavage (Oral)): >=

NOAEL (terato): >= 1 000 mg/kg NOAEL (mater): 1 000 mg/kg Method:

OECD 414

Octamethylcyclotetrasiloxane

Rat (Inhalation - vapor): >= NOAEL (terato): >= 8,492 mg/l NOAEL (mater): 3,64 mg/l Method: Similar to OECD 414 The product is not considered to be toxic for development. Rabbit (Inhalation - vapor): >= NOAEL (terato): >= 6,066 mg/l NOAEL (mater): Method: Similar to OECD 414 The product is not considered to be toxic for development.

Specific Target Organ Toxicity - Single Exposure:

Product:

Com position/information on ingredients

Specified substance(s):

2020-02-17 ΕN 11/17



Version: 1.1 Revision Date: 2020-02-17

2-Pentanone, O,O',O"-

(ethenylsilylidyne)trioxime

Not classified

2-Pentandione, O,O',O"-

Not classified

(methylsilylidyne)trioxime

3-aminopropyltriethoxysilane Not classified

Decamethylcyclopentasiloxa Not classified

Dodecamethylcyclohexasilox Not classified

ane

Octamethylcyclotetrasiloxan Not classified

Specific Target Organ Toxicity - Repeated Exposure:

Product: Com position/information on

ingredients Specified substance(s):

Not classified 2-Pentanone, O,O',O"-

(ethenylsilylidyne)trioxime

2-Pentandione, O,O',O"-Not classified

(methylsilylidyne)trioxime

3-am inopropyltriethoxysilane Not classified

Decamethylcyclopentasiloxane Not classified

Dodecamethylcyclohexasiloxa Not classified

ne

Octamethylcyclotetrasiloxane Not classified

Aspiration Hazard:

Product: No data available.

Specified substance(s):

2-Pentanone, O,O',O"-Not classified

(ethenylsilylidyne)trioxime

2-Pentandione, O,O',O"-Not classified

(methylsilylidyne)trioxime

3-am inopropyltriethoxysilane Not classified

Decamethylcyclopentasiloxane Not classified

Dodecamethylcyclohexasiloxa Not classified

ne

Not classified Octamethylcyclotetrasiloxane



Version: 1.1

Revision Date: 2020-02-17

SECTION 12: Ecological information

General information: Not applicable

12.1 Toxicity:

Acute toxicity:

Fish:

Product: Com position/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"- LC 50 (Oncorhynchus mykiss, 96 h): > 117 mg/l Results obtained on a

(ethenylsilylidyne)trioxime similar product.

2-Pentandione, O,O',O"- LC 50 (Oncorhynchus mykiss, 96 h): > 113 mg/l Results obtained on a

(methylsilylidyne)trioxime similar product.

3-aminopropyltriethoxysilane LC 50 (Danio rerio, 96 h): > 934 mg/l

Decamethylcyclopentasiloxane LC 50 (Oncorhynchus mykiss, 96 h): > 0,016 mg/l

NOEC (Oncorhynchus mykiss, 96 h): >= 0,016 mg/l

Dodecamethylcyclohexasiloxan LC 50 (Oncorhynchus mykiss, 96 h): > 0,016 mg/l

е

Octamethylcyclotetrasiloxane LC 50 (Oncorhynchus mykiss, 96 h): > 0,022 mg/l

Aquatic Invertebrates:

Product: Com position/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"- EC 50 (Water flea (Daphnia magna), 48 h): > 117 mg/l Results

(ethenylsilylidyne)trioxime obtained on a similar product.

2-Pentandione, O,O',O"- EC 50 (Water flea (Daphnia magna), 48 h): > 113 mg/l Results

(methylsilylidyne)trioxime obtained on a similar product.

3-aminopropyltriethoxysilane EC 50 (Water flea (Daphnia magna), 48 h): 331 mg/l

Decamethylcyclopentasiloxane EC 50 (Water flea (Daphnia magna), 48 h): > 0,0029 mg/l

NOEC (Water flea (Daphnia magna), 48 h): >= 0,0029 mg/l

Dodecamethylcyclohexasiloxan EC 50 (Water flea (Daphnia magna), 48 h): > 0,0029 mg/l

е

Octamethylcyclotetrasiloxane EC 50 (Water flea (Daphnia magna), 48 h): > 0,015 mg/l

Chronic Toxicity:

Fish:

Product: Com position/information on ingredients

Specified substance(s):

Decamethylcyclopentasiloxane NOEC (Oncorhynchus mykiss, 90 d): >= 0,014 mg/l

2020-02-17 EN 13/17



Version: 1.1

Revision Date: 2020-02-17

Dodecamethylcyclohexasiloxan NOEC (Oncorhynchus mykiss, 90 d): >= 0.014 mg/l

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Octamethylcyclotetrasiloxane NOEC (Oncorhynchus mykiss, 93 d): >= 0,0044 mg/l

Aquatic Invertebrates:

Product: Composition/information on ingredients

Specified substance(s):

Decamethylcyclopentasiloxane NOEC (Water flea (Daphnia magna), 21 d): >= 0,015 mg/l

Dodecamethylcyclohexasiloxan NOEC (Water flea (Daphnia magna), 21 d): >= 0,0046 mg/l

е

Octamethylcyclotetrasiloxane NOEC (Water flea (Daphnia magna), 21 d): >= 0,015 mg/l

Toxicity to Aquatic Plants:

Product: Composition/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"- ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 103 mg/l

(ethenylsilylidyne)trioxime Results obtained on a similar product.

NOEC (Algae (Pseudokirchneriella subcapitata), 72 h): 37 mg/l

Results obtained on a similar product.

2-Pentandione, O,O',O"-(methylsilylidyne)trioxime

ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): 100 mg/l

Results obtained on a similar product.

NOEC (growth rate) (Algae (Pseudokirchneriella subcapitata), 72 h):

36 mg/l Results obtained on a similar product.

3-aminopropyltriethoxysilane EC 50 (Green algae (Scenedesmus subspicatus), 72 h): > 1 000 mg/l

NOEC (growth rate) (Green algae (Scenedesmus subspicatus), 72

h): 1,3 mg/l

Decamethylcyclopentasiloxan

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EC 50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0,012 mg/l NOEC (Algae (Pseudokirchneriella subcapitata), 96 h): >= 0,012 mg/l

Dodecamethylcyclohexasilox

ane

NOEC (growth rate) (Algae (Pseudokirchneriella subcapitata), 72 h):

>= 0.002 mg/l

ErC50 (Algae (Pseudokirchneriella subcapitata), 72 h): > 0,002 mg/l

Octamethylcyclotetrasiloxane ErC50 (Algae (Pseudokirchneriella subcapitata), 96 h): > 0,022 mg/l

ErC10 (Algae (Pseudokirchneriella subcapitata), 96 h): >= 0,022 mg/l

12.2 Persistence and Degradability:

Biodegradation:

Product: Composition/information on ingredients

Specified substance(s):

2020-02-17 EN 14/17



Version: 1.1

Revision Date: 2020-02-17

2-Pentanone, O,O',O"-(ethenylsilylidyne)trioxime 1 % (28 d, OECD 301 B) Not readily degradable. Results obtained on

a similar product.

2-Pentandione, O,O',O"-(methylsilylidyne)trioxime 1 % (28 d, OECD 301 B) The product is not readily biodegradable.

3-aminopropyltriethoxysilane

67 % (28 d, According to a standardised method.) The product is not

readily biodegradable.

Decamethylcyclopentasiloxane

0,14 % (28 d) The product is not readily biodegradable.

 ${\sf Dodecamethylcyclohexasiloxan~4,5~\%~(28~d,~OECD~310)~The~product~is~not~readily~biodegradable.}$

е

Octamethylcyclotetrasiloxane

3,7 % (28 d, OECD 310) The product is not considered to be readily

biodegradable.

BOD/COD Ratio:

Product:

No data available.

12.3 Bioaccumulative potential:

Product:

Composition/information on ingredients

Specified substance(s):

2-Pentanone, O,O',O"- Bioconcentration Factor (BCF): 69,21 The product is not

(ethenylsilylidyne)trioxime considered to have a bioaccumulative potential. Structure-activity

relationship (SAR)

2-Pentandione, O,O',O"-

(methylsilylidyne)trioxime

Bioconcentration Factor (BCF): 103,3 The product is not

considered to have a bioaccumulative potential. Structure-activity

relationship (SAR)

3-aminopropyltriethoxysilane

Common Carp, Bioconcentration Factor (BCF): 3,4 (OECD 305)

Decamethylcyclopentasiloxane

Pimephales promelas, Bioconcentration Factor (BCF): 16 200 (OECD 305) The product is not bioaccumulating.

Dodecamethylcyclohexasiloxane

Fathead Minnow, Bioconcentration Factor (BCF): 2 860 (OECD

305) Has the potential to bioaccumulate.

Composition/information on ingredients

Octamethylcyclotetrasiloxane

Fathead Minnow, Bioconcentration Factor (BCF): 14 900 (OECD 305) Not bioaccumulable based on the depuration rate constant

12.4 Mobility in soil: No data available.

12.5 Results of PBT and vPvB assessment:

Decamethylcyclopentasiloxane

Meets vPvB criteria

REACH (1907/2006) Ax

XIII



Version: 1.1

Revision Date: 2020-02-17

Dodecamethylcyclohexasiloxane Meets vPvB criteria REACH (1907/2006) Ax

XIII

XIII

Octamethylcyclotetrasiloxane Meets PBT REACH (1907/2006) Ax

(persistent/bioaccumulative/toxic)

criteria, Meets vPvB criteria

12.6 Other adverse effects: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

General information: The user's attention is drawn to the possible existence of local regulations

regarding disposal.

Disposal methods

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. Incinerate.

Contaminated Packaging: Contaminated packages should be as empty as possible. Dispose of

waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an

authorised site.

SECTION 14: Transport information

This material is not subject to transport regulations.

Other information: No special precautions.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code: Not applicable.

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as

amended: none

15.2 Chemical safety assessment:

No Chemical Safety Assessment has been carried out.

2020-02-17 EN 16/17



Version: 1.1

Revision Date: 2020-02-17

Inventory Status:

Australia AICS:

Canada DSL Inventory List:

EINECS, ELINCS or NLP:

Japan (ENCS) List:

China Inv. Existing Chemical Substances:

Not in compliance with the inventory.

On or in compliance with the inventory.

Not in compliance with the inventory.

Not in compliance with the inventory.

China Inv. Existing Chemical Substances:

Korea Existing Chemicals Inv. (KECI):

Philippines PICCS:

US TSCA Inventory:

Not in compliance with the 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.

SECTION 16: Other information

Revision Information: Not relevant.

References

PBT: persistent, bioaccumulative and toxic substance. vPvB: very persistent and very bioaccumulative substance.

Key abbreviations or acronyms used:

No data available.

Key literature references and No data available. sources for data:

Wording of the H-statements in section 2 and 3

H226 Flammable liquid and vapor. H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H361f Suspected of damaging fertility.

H372 Causes damage to organs through prolonged or

repeated exposure.

H373 May cause damage to organs through prolonged or

repeated exposure.

H413 May cause long lasting harmful effects to aquatic life.

Training information: No data available.

Issue Date: 05.09.2019

SDS No.:

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.

2020-02-17 EN 17/17