

**NEUTRAL SILICONE WEATHER SEALANT
BLACK**

Version 3.3 Revision Date: 11/12/2020 SDS Number: 977112-00004 Date of last issue: 09/01/2019
Date of first issue: 10/25/2016

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : NEUTRAL SILICONE WEATHER SEALANT BLACK
Product code : 089253882

Manufacturer or supplier's details

Company : Wurth Lanka (PVT) LTD
Address : 375/B, High Level Road
Makumbura, Pannipitya, Sri Lanka
Telephone : 0094-112894930
Emergency telephone number : 0094-777328880
E-mail address : prodsafe@wuerth.com
Telefax : 0094-112894955


Recommended use of the chemical and restrictions on use

Recommended use : Sealant

2. HAZARDS IDENTIFICATION**GHS Classification**

Serious eye damage/eye irritation : Category 2A
Skin sensitisation : Category 1
Carcinogenicity : Category 2
Specific target organ toxicity - repeated exposure : Category 1 (Blood)

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H317 May cause an allergic skin reaction.
H319 Causes serious eye irritation.
H351 Suspected of causing cancer.

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H372 Causes damage to organs (Blood) through prolonged or repeated exposure.

Precautionary statements :

Prevention:

P203 Obtain, read and follow all safety instructions before use.
P260 Do not breathe mist or vapours.
P264 Wash skin thoroughly after handling.
P270 Do not eat, drink or smoke when using this product.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

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.
P318 IF exposed or concerned, get medical advice.
P333 + P317 If skin irritation or rash occurs: Get medical help.
P337 + P317 If eye irritation persists: Get medical help.
P362 + P364 Take off contaminated clothing and wash it before reuse.

Storage:

P405 Store locked up.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Components

Chemical name	CAS-No.	Concentration (% w/w)
Distillates (petroleum), hydrotreated middle	64742-46-7	>= 10 - < 20
Butan-2-one O,O',O''-(methylsilylidyne)trioxime	22984-54-9	>= 2.5 - < 5
Ethyl methyl ketoxime	96-29-7	>= 1 - < 2.5
Butan-2-one O,O',O''-(vinylsilylidyne)trioxime	2224-33-1	>= 0.25 - < 1
3-(2-Aminoethylamino) propyltrimethoxysilane	1760-24-3	>= 0.25 - < 1

4. FIRST AID MEASURES

General advice : In the case of accident or if you feel unwell, seek medical advice immediately.

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- When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention.
- In case of skin contact : In case of contact, immediately flush skin with soap and plenty of water.
Remove contaminated clothing and shoes.
Get medical attention.
Wash clothing before reuse.
Thoroughly clean shoes before reuse.
- In case of eye contact : In case of contact, immediately flush eyes with plenty of water for at least 15 minutes.
If easy to do, remove contact lens, if worn.
Get medical attention.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
Causes serious eye irritation.
Suspected of causing cancer.
Causes damage to organs through prolonged or repeated exposure.
- Protection of first-aiders : First Aid responders should pay attention to self-protection, and use the recommended personal protective equipment when the potential for exposure exists (see section 8).
- Notes to physician : Treat symptomatically and supportively.

5. FIREFIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Carbon dioxide (CO₂)
Dry chemical
- Unsuitable extinguishing media : None known.
- Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health.
- Hazardous combustion products : Carbon oxides
Silicon oxides
Nitrogen oxides (NO_x)
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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Use water spray to cool unopened containers.
Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.
Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.
Follow safe handling advice (see section 7) and personal protective equipment recommendations (see section 8).

Environmental precautions : Avoid release to the environment.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up : Soak up with inert absorbent material.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped, store recovered material in appropriate container.
Clean up remaining materials from spill with suitable absorbent.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in the cleanup of releases. You will need to determine which regulations are applicable.
Sections 13 and 15 of this SDS provide information regarding certain local or national requirements.

7. HANDLING AND STORAGE

Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.

Local/Total ventilation : Use only with adequate ventilation.

Advice on safe handling : Do not get on skin or clothing.
Do not breathe mist or vapours.
Do not swallow.
Do not get in eyes.
Wash skin thoroughly after handling.
Handle in accordance with good industrial hygiene and safety practice, based on the results of the workplace exposure assessment
Keep away from water.
Protect from moisture.

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Do not eat, drink or smoke when using this product.
Take care to prevent spills, waste and minimize release to the environment.

- Conditions for safe storage : Keep in properly labelled containers.
Store locked up.
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store with the following product types:
Strong oxidizing agents
-

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Contains no substances with occupational exposure limit values.

- Engineering measures** : Processing may form hazardous compounds (see section 10).
Ensure adequate ventilation, especially in confined areas.
Minimize workplace exposure concentrations.

Personal protective equipment

Respiratory protection : If adequate local exhaust ventilation is not available or exposure assessment demonstrates exposures outside the recommended guidelines, use respiratory protection.

Filter type : Combined particulates and organic vapour type

Hand protection

Material : Nitrile rubber
Break through time : 10 - 60 min
Glove thickness : > 0.1 mm

Material : butyl-rubber
Break through time : > 480 min
Glove thickness : > 0.3 mm

Remarks : Choose gloves to protect hands against chemicals depending on the concentration and quantity of the hazardous substance and specific to place of work. For special applications, we recommend clarifying the resistance to chemicals of the aforementioned protective gloves with the glove manufacturer. Wash hands before breaks and at the end of workday.

Eye protection : Wear the following personal protective equipment:
Safety goggles

Skin and body protection : Select appropriate protective clothing based on chemical resistance data and an assessment of the local exposure potential.
Skin contact must be avoided by using impervious protective

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clothing (gloves, aprons, boots, etc).

Hygiene measures : If exposure to chemical is likely during typical use, provide eye flushing systems and safety showers close to the working place.
When using do not eat, drink or smoke.
Contaminated work clothing should not be allowed out of the workplace.
Wash contaminated clothing before re-use.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: paste
Colour	: coloured
Odour	: strong
Odour Threshold	: No data available
pH	: ca. 7
Melting point/freezing point	: No data available
Initial boiling point and boiling range	: No data available
Flash point	: > 250 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: Not applicable
Flammability (liquids)	: No data available
Upper explosion limit / Upper flammability limit	: No data available
Lower explosion limit / Lower flammability limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: 1.00 (23 °C)
Density	: 1.00 g/cm ³ (23 °C)

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Solubility(ies)
Water solubility : hydrolyses, Decomposes in contact with water.

Partition coefficient: n-
octanol/water : Not applicable

Auto-ignition temperature : ca. 430 °C
Method: DIN 51794

Decomposition temperature : > 150 °C

Viscosity
Viscosity, kinematic : > 20.5 mm²/s (40 °C)

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

Particle size : Not applicable

10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : Use at elevated temperatures may form highly hazardous
tions : compounds.
Can react with strong oxidizing agents.
Methyl Ethyl Ketoxime (MEKO) is formed upon contact with
water or humid air.
Hazardous decomposition products will be formed upon con-
tact with water or humid air.

Conditions to avoid : Exposure to moisture

Incompatible materials : Oxidizing agents
Water

Hazardous decomposition products

Contact with water or humid : Ethyl methyl ketoxime
air

11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation
exposure : Skin contact
Ingestion
Eye contact

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Acute toxicity

Not classified based on available information.

Product:

Acute oral toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5,000 mg/kg
Method: Calculation method

Components:**Distillates (petroleum), hydrotreated middle:**

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 5,000 mg/m³
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Assessment: The substance or mixture has no acute dermal toxicity

Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime:

Acute oral toxicity : LD50 (Rat): 2,453 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 4.83 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 402

Ethyl methyl ketoxime:

Acute oral toxicity : LD50 (Rat): 2,326 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 4.83 mg/l
Exposure time: 4 h
Test atmosphere: vapour

Acute dermal toxicity : LD50 (Rabbit): > 1,000 - 1,800 mg/kg

Butan-2-one O,O',O''-(vinylsilyldiylidene)trioxime:

Acute oral toxicity : LD50 (Rat): > 2,000 mg/kg
Method: OECD Test Guideline 425

Acute inhalation toxicity : LC50 (Rat): > 4.83 mg/l
Exposure time: 4 h

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Test atmosphere: vapour
Method: OECD Test Guideline 403
Assessment: The substance or mixture has no acute inhalation toxicity
Remarks: Based on data from similar materials

Acute dermal toxicity : LD50 (Rat): > 2,009 mg/kg
Method: OECD Test Guideline 402

3-(2-Aminoethylamino) propyltrimethoxysilane:

Acute oral toxicity : LD50 (Rat, female): 1,897 mg/kg
Method: OPPTS 870.1100

Acute inhalation toxicity : LC50 (Rat): 1.49 - 2.44 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OPPTS 870.1300

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg
Method: OPPTS 870.1200

Skin corrosion/irritation

Not classified based on available information.

Components:**Distillates (petroleum), hydrotreated middle:**

Assessment : Repeated exposure may cause skin dryness or cracking.

Butan-2-one O,O',O''-(methylsilyldiylidene)trioxime:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Ethyl methyl ketoxime:

Species : Rabbit
Result : No skin irritation

Butan-2-one O,O',O''-(vinylsilyldiylidene)trioxime:

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

3-(2-Aminoethylamino) propyltrimethoxysilane:

Species : Rabbit
Method : OECD Test Guideline 404
Result : Mild skin irritation

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Serious eye damage/eye irritation

Causes serious eye irritation.

Components:**Distillates (petroleum), hydrotreated middle:**

Result : No eye irritation

Butan-2-one O,O',O''-(methylsilylidyne)trioxime:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritation to eyes, reversing within 21 days

Ethyl methyl ketoxime:

Species : Rabbit
Result : Irreversible effects on the eye

Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

3-(2-Aminoethylamino) propyltrimethoxysilane:

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

Respiratory or skin sensitisation**Skin sensitisation**

May cause an allergic skin reaction.

Respiratory sensitisation

Not classified based on available information.

Components:**Distillates (petroleum), hydrotreated middle:**

Test Type : Human repeat insult patch test (HRIPT)
Exposure routes : Skin contact
Result : negative

Butan-2-one O,O',O''-(methylsilylidyne)trioxime:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : positive

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

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Ethyl methyl ketoxime:

Test Type : Buehler Test
Exposure routes : Skin contact
Species : Guinea pig
Result : positive

Assessment : Probability or evidence of skin sensitisation in humans

Butan-2-one O,O',O''-(vinylsilyldi)trioxime:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Result : positive
Remarks : Based on data from similar materials

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

3-(2-Aminoethylamino) propyltrimethoxysilane:

Test Type : Maximisation Test
Exposure routes : Skin contact
Species : Guinea pig
Method : OECD Test Guideline 406
Result : positive

Assessment : Probability or evidence of low to moderate skin sensitisation rate in humans

Germ cell mutagenicity

Not classified based on available information.

Components:**Distillates (petroleum), hydrotreated middle:**

Genotoxicity in vitro : Test Type: In vitro sister chromatid exchange assay in mammalian cells
Result: negative

Butan-2-one O,O',O''-(methylsilyldi)trioxime:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative

Ethyl methyl ketoxime:

Genotoxicity in vitro : Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)
Method: OECD Test Guideline 482
Result: negative

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow

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cytogenetic test, chromosomal analysis)
Species: Rat
Application Route: Ingestion
Result: negative

Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:

Genotoxicity in vitro : Test Type: Chromosome aberration test in vitro
Method: OECD Test Guideline 473
Result: positive

Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Method: OECD Test Guideline 474
Result: negative

3-(2-Aminoethylamino) propyltrimethoxysilane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Method: OECD Test Guideline 471
Result: negative

Test Type: In vitro mammalian cell gene mutation test
Result: negative

Test Type: In vitro sister chromatid exchange assay in mam-
malian cells
Method: OPPTS 870.5900
Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo
cytogenetic assay)
Species: Mouse
Application Route: Intraperitoneal injection
Result: negative

Carcinogenicity

Suspected of causing cancer.

Components:**Butan-2-one O,O',O''-(methylsilyldiyl)trioxime:**

Species : Rat
Application Route : inhalation (vapour)
Exposure time : 26 Months
Result : positive
Remarks : Based on data from similar materials

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Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Ethyl methyl ketoxime:

Species : Rat
 Application Route : inhalation (vapour)
 Exposure time : 26 Months
 Result : positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:

Species : Rat
 Application Route : inhalation (vapour)
 Exposure time : 26 Months
 Result : positive
 Remarks : Based on data from similar materials

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

Reproductive toxicity

Not classified based on available information.

Components:

Butan-2-one O,O',O''-(methylsilylidyne)trioxime:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 422
 Result: negative

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
 Species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 422
 Result: negative

Ethyl methyl ketoxime:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
 Species: Rat
 Application Route: Ingestion
 Result: negative

Effects on foetal development : Test Type: Embryo-foetal development

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ment Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

Effects on foetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 422
Result: negative
Remarks: Based on data from similar materials

3-(2-Aminoethylamino) propyltrimethoxysilane:

Effects on fertility : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat
Application Route: Ingestion
Result: negative

Effects on foetal development : Test Type: Embryo-foetal development
Species: Rat
Application Route: Ingestion
Method: OECD Test Guideline 414
Result: negative

STOT - single exposure

Not classified based on available information.

Components:**Butan-2-one O,O',O''-(methylsilyldiyl)trioxime:**

Assessment : May cause drowsiness or dizziness.
Remarks : Based on data from similar materials

Ethyl methyl ketoxime:

Assessment : May cause drowsiness or dizziness.

Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:

Assessment : May cause drowsiness or dizziness.
Remarks : Based on data from similar materials

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STOT - repeated exposure

Causes damage to organs (Blood) through prolonged or repeated exposure.

Components:

Butan-2-one O,O',O''-(methylsilyldiyl)trioxime:

Exposure routes : Ingestion
 Target Organs : Blood
 Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.
 Remarks : Based on data from similar materials

Exposure routes : inhalation (vapour)
 Target Organs : Blood
 Assessment : Shown to produce significant health effects in animals at concentrations of 0.2 mg/l/6h/d or less.
 Remarks : Based on data from similar materials

Ethyl methyl ketoxime:

Exposure routes : Ingestion
 Target Organs : Blood
 Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

Exposure routes : inhalation (vapour)
 Target Organs : Blood
 Assessment : Shown to produce significant health effects in animals at concentrations of 0.2 mg/l/6h/d or less.

Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:

Exposure routes : Ingestion
 Target Organs : Blood
 Assessment : Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.
 Remarks : Based on data from similar materials

Exposure routes : inhalation (vapour)
 Target Organs : Blood
 Assessment : Shown to produce significant health effects in animals at concentrations of 0.2 mg/l/6h/d or less.
 Remarks : Based on data from similar materials

3-(2-Aminoethylamino) propyltrimethoxysilane:

Exposure routes : inhalation (dust/mist/fume)
 Target Organs : Respiratory Tract
 Assessment : Shown to produce significant health effects in animals at concentrations of >0.02 to 0.2 mg/l/6h/d.

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Repeated dose toxicity**Components:****Butan-2-one O,O',O''-(methylsilylidyne)trioxime:**

Species : Rat
LOAEL : 0.36 mg/l
Application Route : inhalation (vapour)
Exposure time : 28 Days
Remarks : Based on data from similar materials

Species : Rat
NOAEL : 4 mg/l
LOAEL : 20 mg/kg
Application Route : Ingestion
Exposure time : 28 Days
Remarks : Based on data from similar materials

Ethyl methyl ketoxime:

Species : Rat
NOAEL : 0.09 mg/l
Application Route : inhalation (vapour)
Exposure time : 28 Days

Species : Rat
NOAEL : 4 mg/kg
LOAEL : 20 mg/kg
Application Route : Ingestion
Exposure time : 28 Days

Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:

Species : Rat
LOAEL : 0.36 mg/l
Application Route : inhalation (vapour)
Exposure time : 28 Days
Remarks : Based on data from similar materials

Species : Rat
NOAEL : 4 mg/l
LOAEL : 20 mg/kg
Application Route : Ingestion
Exposure time : 28 Days
Remarks : Based on data from similar materials

3-(2-Aminoethylamino) propyltrimethoxysilane:

Species : Rat
NOAEL : >= 500 mg/kg
Application Route : Ingestion
Exposure time : 44 Days

Species : Rat
NOAEL : 0.015 mg/l

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LOAEL	:	0.045 mg/l
Application Route	:	inhalation (dust/mist/fume)
Exposure time	:	13 Weeks
Method	:	OECD Test Guideline 413

Aspiration toxicity

Not classified based on available information.

Components:**Distillates (petroleum), hydrotreated middle:**

The substance or mixture is known to cause human aspiration toxicity hazards or has to be regarded as if it causes a human aspiration toxicity hazard.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****Distillates (petroleum), hydrotreated middle:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): > 87,556 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 1,000 mg/l Exposure time: 48 h
Toxicity to algae/aquatic plants	:	EC50 (Selenastrum capricornutum (green algae)): > 1,000 mg/l Exposure time: 72 h
Toxicity to microorganisms	:	EC50: > 100 mg/l Exposure time: 3 h
Toxicity to fish (Chronic toxicity)	:	NOELR: > 1,000 mg/l Exposure time: 28 d
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOELR: 5 mg/l Exposure time: 21 d

Butan-2-one O,O',O''-(methylsilylidyne)trioxime:

Toxicity to fish	:	EC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 120 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 94

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- plants : mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (*Pseudokirchneriella subcapitata* (green algae)): 30 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50: > 1,000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
- Toxicity to fish (Chronic toxicity) : NOEC: >= 100 mg/l
Exposure time: 14 d
Species: *Oryzias latipes* (Orange-red killifish)
Method: OECD Test Guideline 204
Remarks: Based on data from similar materials
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 100 mg/l
Exposure time: 21 d
Species: *Daphnia magna* (Water flea)
Method: OECD Test Guideline 211
Remarks: Based on data from similar materials
- Ethyl methyl ketoxime:**
- Toxicity to fish : LC50 (*Oryzias latipes* (Japanese medaka)): > 100 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203
- Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 201 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : ErC50 (*Scenedesmus capricornutum* (fresh water algae)): 11.8 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (*Scenedesmus capricornutum* (fresh water algae)): 2.56 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- Toxicity to microorganisms : EC50 (*Pseudomonas putida*): 281 mg/l
Exposure time: 17 h
- Toxicity to fish (Chronic toxicity) : NOEC: 50 mg/l
Exposure time: 14 d
Species: *Oryzias latipes* (Japanese medaka)
Method: OECD Test Guideline 204
- Toxicity to daphnia and other : NOEC: > 100 mg/l

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aquatic invertebrates (Chronic toxicity)
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 211

Butan-2-one O,O',O''-(vinylsilyldiyl)trioxime:

Toxicity to fish : EC50 (Oncorhynchus mykiss (rainbow trout)): > 120 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203
 Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): > 120 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202
 Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 94 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): 30 mg/l
 Exposure time: 72 h
 Remarks: Based on data from similar materials

Toxicity to microorganisms : EC50: > 1,000 mg/l
 Exposure time: 3 h
 Method: OECD Test Guideline 209
 Remarks: Based on data from similar materials

Toxicity to fish (Chronic toxicity) : NOEC: >= 100 mg/l
 Exposure time: 14 d
 Species: Oryzias latipes (Orange-red killifish)
 Method: OECD Test Guideline 204
 Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 100 mg/l
 Exposure time: 21 d
 Species: Daphnia magna (Water flea)
 Method: OECD Test Guideline 211
 Remarks: Based on data from similar materials

3-(2-Aminoethylamino) propyltrimethoxysilane:

Toxicity to fish : LC50 (Danio rerio (zebra fish)): > 100 mg/l
 Exposure time: 96 h
 Method: Directive 67/548/EEC, Annex V, C.1.
 Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): > 10 - 100 mg/l
 Exposure time: 48 h
 Test substance: Water Accommodated Fraction

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Method: Directive 67/548/EEC, Annex V, C.2.
Remarks: Based on data from similar materials

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): > 1 - 10 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

NOEC (Pseudokirchneriella subcapitata (green algae)): > 1 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
Remarks: Based on data from similar materials

Toxicity to microorganisms : EC10 (Pseudomonas putida): > 1 mg/l
Exposure time: 16 h
Method: DIN 38 412 Part 8
Remarks: Based on data from similar materials

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: >= 1 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Remarks: Based on data from similar materials

Persistence and degradability

Components:

Distillates (petroleum), hydrotreated middle:

Biodegradability : Result: Inherently biodegradable.

Butan-2-one O,O',O''-(methylsilylidyne)trioxime:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301A
Remarks: Based on data from similar materials

Ethyl methyl ketoxime:

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 27 %
Exposure time: 21 d

Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:

Biodegradability : Result: not rapidly degradable
Biodegradation: 0 %
Exposure time: 28 d
Method: OECD Test Guideline 301A
Remarks: Based on data from similar materials

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3-(2-Aminoethylamino) propyltrimethoxysilane:

Biodegradability : Result: Not readily biodegradable.
Method: Regulation (EC) No. 440/2008, Annex, C.4-A
Remarks: Based on data from similar materials

Bioaccumulative potential**Components:****Butan-2-one O,O',O''-(methylsilylidyne)trioxime:**

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 0.5 - 2.5
Remarks: Based on data from similar materials

Partition coefficient: n-
octanol/water : log Pow: 0.59 - 0.65

Ethyl methyl ketoxime:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 0.5 - 0.6
Method: OECD Test Guideline 305

Partition coefficient: n-
octanol/water : log Pow: 0.63

Butan-2-one O,O',O''-(vinylsilylidyne)trioxime:

Bioaccumulation : Species: Cyprinus carpio (Carp)
Bioconcentration factor (BCF): 0.5 - 2.5
Remarks: Based on data from similar materials

Partition coefficient: n-
octanol/water : log Pow: 0.59 - 0.65

3-(2-Aminoethylamino) propyltrimethoxysilane:

Partition coefficient: n-
octanol/water : log Pow: -3.3
Remarks: Calculation

Mobility in soil

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : Dispose of in accordance with local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

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If not otherwise specified: Dispose of as unused product.

14. TRANSPORT INFORMATION**International Regulations****UNRTDG**

Not regulated as a dangerous good

IATA-DGR

Not regulated as a dangerous good

IMDG-Code

Not regulated as a dangerous good

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****16. OTHER INFORMATION****Further information**

Sources of key data used to compile the Safety Data Sheet : Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, <http://echa.europa.eu/>

Date format : dd.mm.yyyy

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships;

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n.o.s. - Not Otherwise Specified; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and shall not be considered a warranty or quality specification of any type. The information provided relates only to the specific material identified at the top of this SDS and may not be valid when the SDS material is used in combination with any other materials or in any process, unless specified in the text. Material users should review the information and recommendations in the specific context of their intended manner of handling, use, processing and storage, including an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

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