

XIAMETER(R) ECE-3650 SYLGARD HVIC WHITE

Version	Revision Date:	MSDS Number:	Date of last issue: 10/27/2014
1.1	12/22/2014	676399-00002	Date of first issue: 10/27/2014

SECTION 1. IDENTIFICATION

Product name : XIAMETER(R) ECE-3650 SYLGARD HVIC WHITE
000000000004086104

Product code : DCC000011140

Manufacturer or supplier's details

Company name of supplier : Dow Corning Corporation

Address : South Saginaw Road
Midland Michigan 48686

Telephone : (989) 496-6000

Emergency telephone : 24 Hour Emergency Telephone : (989) 496-5900
CHEMTREC : (800) 424-9300

Recommended use of the chemical and restrictions on use

Recommended use : Electrical industry and electronics

SECTION 2. HAZARDS IDENTIFICATION**GHS Classification**

Flammable liquids : Category 3

Skin sensitization : Category 1

Carcinogenicity : Category 2

Reproductive toxicity : Category 2

Specific target organ
systemic toxicity - repeated
exposure (Oral) : Category 2 (Blood)

GHS Label element

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.
H317 May cause an allergic skin reaction.
H351 Suspected of causing cancer.
H361 Suspected of damaging fertility or the unborn child.

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H373 May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.

Precautionary Statements
: Prevention:

P201 Obtain special instructions before use.
 P202 Do not handle until all safety precautions have been read and understood.
 P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking.
 P233 Keep container tightly closed.
 P241 Use explosion-proof electrical/ ventilating/ lighting/ equipment.
 P242 Use only non-sparking tools.
 P243 Take precautionary measures against static discharge.
 P260 Do not breathe spray.
 P271 Use only outdoors or in a well-ventilated area.
 P272 Contaminated work clothing must not be allowed out of the workplace.
 P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
 P308 + P313 IF exposed or concerned: Get medical advice/ attention.
 P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention.
 P363 Wash contaminated clothing before reuse.

Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.
 P405 Store locked up.

Disposal:

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

Other hazards

Vapors may form explosive mixture with air.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture
 Chemical nature : Silicone dispersion

Hazardous ingredients

Chemical Name	CAS-No.	Concentration (%)
Aluminum hydroxide	21645-51-2	>= 30 - < 50
Distillates (petroleum), hydrotreated light	64742-47-8	>= 5 - < 10
Methyltri(ethylmethylketoxime)silane	22984-54-9	>= 5 - < 10
Stoddard solvent	8052-41-3	>= 1 - < 5
Methyltri(ethylmethylketoxime)silane isomers and oligomers	Not Assigned	>= 0.1 - < 1

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Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	>= 0.1 - < 1
Ethyl methyl ketoxime	96-29-7	>= 0.1 - < 1
Octamethylcyclotetrasiloxane	556-67-2	>= 0.1 - < 1

SECTION 4. FIRST AID MEASURES

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.
When symptoms persist or in all cases of doubt seek medical advice.
- If inhaled : If inhaled, remove to fresh air.
Get medical attention if symptoms occur.
- 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 : Flush eyes with water as a precaution.
Get medical attention if irritation develops and persists.
- If swallowed : If swallowed, DO NOT induce vomiting.
Get medical attention if symptoms occur.
Rinse mouth thoroughly with water.
- Most important symptoms and effects, both acute and delayed : May cause an allergic skin reaction.
Suspected of causing cancer.
Suspected of damaging fertility or the unborn child.
May cause damage to organs through prolonged or repeated exposure if swallowed.
- 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.
- Notes to physician : Treat symptomatically and supportively.

SECTION 5. FIRE-FIGHTING MEASURES

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
Dry chemical
Carbon dioxide (CO₂)
- Unsuitable extinguishing media : High volume water jet
- Specific hazards during fire : Do not use a solid water stream as it may scatter and spread

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fighting	fire. Flash back possible over considerable distance. Vapors may form explosive mixtures with air. Exposure to combustion products may be a hazard to health.
Hazardous combustion products	: Metal oxides Carbon oxides Silicon oxides Formaldehyde Nitrogen oxides (NOx)
Specific extinguishing methods	: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. 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 fire-fighters	: In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	: Remove all sources of ignition. Use personal protective equipment. Follow safe handling advice and personal protective equipment recommendations.
Environmental precautions	: Discharge into the environment must be avoided. 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	: Non-sparking tools should be used. Soak up with inert absorbent material. Suppress (knock down) gases/vapors/mists with a water spray jet. For large spills, provide diking or other appropriate containment to keep material from spreading. If diked 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.

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SECTION 7. HANDLING AND STORAGE

- Technical measures : See Engineering measures under EXPOSURE CONTROLS/PERSONAL PROTECTION section.
- Local/Total ventilation : Use with local exhaust ventilation.
Use only in an area equipped with explosion proof exhaust ventilation.
- Advice on safe handling : Do not get on skin or clothing.
Do not breathe vapors or spray mist.
Do not swallow.
Avoid contact with eyes.
Handle in accordance with good industrial hygiene and safety practice.
Non-sparking tools should be used.
Keep container tightly closed.
Keep away from water.
Protect from moisture.
Keep away from heat and sources of ignition.
Take precautionary measures against static discharges.
Take care to prevent spills, waste and minimize release to the environment.
- Conditions for safe storage : Keep in properly labeled containers.
Keep tightly closed.
Keep in a cool, well-ventilated place.
Store in accordance with the particular national regulations.
Keep away from heat and sources of ignition.
- Materials to avoid : Do not store with the following product types:
Strong oxidizing agents
Organic peroxides
Flammable solids
Pyrophoric liquids
Pyrophoric solids
Self-heating substances and mixtures
Substances and mixtures which in contact with water emit flammable gases
Explosives
Gases

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION
Ingredients with workplace control parameters

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Aluminum hydroxide	21645-51-2	TWA (Respirable fraction)	1 mg/m ³ (Aluminum)	ACGIH

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Distillates (petroleum), hydrotreated light	64742-47-8	TWA	200 mg/m ³ (as total hydrocarbon vapor)	ACGIH
		TWA (Mist)	5 mg/m ³	OSHA Z-1
		TWA (Mist)	5 mg/m ³	NIOSH REL
		ST (Mist)	10 mg/m ³	NIOSH REL
Stoddard solvent	8052-41-3	TWA	100 ppm	ACGIH
		TWA	350 mg/m ³	NIOSH REL
		C	1,800 mg/m ³	NIOSH REL
		TWA	500 ppm 2,900 mg/m ³	OSHA Z-1
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	TWA	0.1 mg/m ³ (Tin)	OSHA Z-1
		TWA	0.1 mg/m ³ (Tin)	ACGIH
		STEL	0.2 mg/m ³ (Tin)	ACGIH
		TWA	0.1 mg/m ³ (Tin)	NIOSH REL
Ethyl methyl ketoxime	96-29-7	TWA	10 ppm	DCC OEL
	Further information: Skin sensitization			
		TWA	10 ppm	US WEEL
Octamethylcyclotetrasiloxane	556-67-2	TWA	10 ppm	DCC OEL

Hazardous components without workplace control parameters

Ingredients	CAS-No.
Methyltri(ethylmethylketoxime) silane	22984-54-9
Methyltri(ethylmethylketoxime) silane isomers and oligomers	Not Assigned

Occupational exposure limits of decomposition products

Ingredients	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethyl methyl ketoxime	96-29-7	TWA	10 ppm	DCC OEL
	Further information: Skin sensitization			
		TWA	10 ppm	US WEEL

Engineering measures : Processing may form hazardous compounds (see section 10).
 Minimize workplace exposure concentrations.
 Use only in an area equipped with explosion proof exhaust ventilation.
 Use with local exhaust ventilation.

Personal protective equipment

Respiratory protection : General and local exhaust ventilation is recommended to maintain vapor exposures below recommended limits. Where concentrations are above recommended limits or are unknown, appropriate respiratory protection should be worn. Follow OSHA respirator regulations (29 CFR 1910.134) and use NIOSH/MSHA approved respirators. Protection provided

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by air purifying respirators against exposure to any hazardous chemical is limited. Use a positive pressure air supplied respirator if there is any potential for uncontrolled release, exposure levels are unknown, or any other circumstance where air purifying respirators may not provide adequate protection.

Hand protection
Material

: Impervious gloves

Flame retardant gloves

Remarks

: Choose gloves to protect hands against chemicals depending on the concentration specific to place of work. Breakthrough time is not determined for the product. Change gloves often! 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.
Wear the following personal protective equipment:
Flame retardant antistatic protective clothing.
Skin contact must be avoided by using impervious protective clothing (gloves, aprons, boots, etc).

Hygiene measures

: Ensure that eye flushing systems and safety showers are located close to the working place.
When using do not eat, drink or smoke.
Wash contaminated clothing before re-use.
These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.
For further information regarding the use of silicones / organic oils in consumer aerosol applications, please refer to the guidance document regarding the use of these type of materials in consumer aerosol applications that has been developed by the silicone industry (www.SEHSC.com) or contact the Dow Corning customer service group.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid
Color : white, milky
Odor : solvent

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Odor Threshold : No data available

pH : No data available

Melting point/freezing point : No data available

Initial boiling point and boiling range : > 35 °C

Flash point : 41 °C
Method: closed cup

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable

Upper explosion limit : No data available

Lower explosion limit : No data available

Vapor pressure : No data available

Relative vapor density : No data available

Relative density : 1.22

Solubility(ies)
Water solubility : No data available

Partition coefficient: n-octanol/water : No data available

Autoignition temperature : No data available

Thermal decomposition : No data available

Viscosity
Viscosity, dynamic : 4,000 mPa.s

Explosive properties : Not explosive

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

Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : Stable under normal conditions.

Possibility of hazardous reac- : Flammable liquid and vapor.

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Reactions	Vapors may form explosive mixture with air. Use at elevated temperatures may form highly hazardous compounds. Can react with strong oxidizing agents. Hazardous decomposition products will be formed upon contact with water or humid air. Hazardous decomposition products will be formed at elevated temperatures.
Conditions to avoid	: Exposure to moisture. Heat, flames and sparks.
Incompatible materials	: Oxidizing agents Water
Hazardous decomposition products	
Contact with water or humid air	: Ethyl methyl ketoxime
Thermal decomposition	: Formaldehyde

SECTION 11. TOXICOLOGICAL INFORMATION
Information on likely routes of exposure

Inhalation
Skin contact
Ingestion
Eye contact

Acute toxicity

Not classified based on available information.

Product:

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

Ingredients:
Aluminum hydroxide:

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

Acute inhalation toxicity : LC50 (Rat): > 2.3 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Assessment: The substance or mixture has no acute inhalation toxicity

Distillates (petroleum), hydrotreated light:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg
Acute dermal toxicity : LD50 (Rabbit): > 3,160 mg/kg

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Assessment: The substance or mixture has no acute dermal toxicity

Methyltri(ethylmethylketoxime)silane:

Acute oral toxicity : LD50 (Rat): > 2,520 mg/kg
 Assessment: The substance or mixture has no acute oral toxicity
 Remarks: Based on test data

Stoddard solvent:

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

Acute inhalation toxicity : LC50 (Rat): > 5.5 mg/l, > 934 ppm
 Exposure time: 4 h
 Test atmosphere: vapor
 Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 : > 5,000 mg/kg

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Acute oral toxicity : LD50 (Rat): 894 mg/kg
 Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 (Rat): > 2,000 mg/kg
 Method: OECD Test Guideline 402
 Assessment: The substance or mixture has no acute dermal toxicity

Ethyl methyl ketoxime:

Acute oral toxicity : LD50 (Rat): 2,326 mg/kg
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 4.83 mg/l
 Exposure time: 4 h
 Test atmosphere: vapor
 Method: OECD Test Guideline 403
 Assessment: The substance or mixture has no acute inhalation toxicity

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

Octamethylcyclotetrasiloxane:

Acute oral toxicity : LD50 (Rat): > 4,800 mg/kg
 Assessment: The substance or mixture has no acute oral toxicity
 Remarks: Based on test data

Acute inhalation toxicity : LC50 (Rat): 2975 ppm
 Exposure time: 4 h
 Test atmosphere: vapor
 Assessment: The substance or mixture has no acute inhalation toxicity
 Remarks: Based on test data

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Acute dermal toxicity : LD50 (Rabbit): > 2.5 ml/kg
Assessment: The substance or mixture has no acute dermal toxicity
Remarks: Based on test data

Skin corrosion/irritation

Not classified based on available information.

Ingredients:**Aluminum hydroxide:**

Species: Rabbit

Result: No skin irritation

Distillates (petroleum), hydrotreated light:

Assessment: Repeated exposure may cause skin dryness or cracking.

Methyltri(ethylmethylketoxime)silane:

Species: Rabbit

Result: No skin irritation

Remarks: Based on data from similar materials

Stoddard solvent:

Assessment: Repeated exposure may cause skin dryness or cracking.

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Species: Rabbit

Method: OECD Test Guideline 404

Result: No skin irritation

Ethyl methyl ketoxime:

Species: Rabbit

Result: No skin irritation

Octamethylcyclotetrasiloxane:

Species: Rabbit

Result: No skin irritation

Remarks: Based on test data

Serious eye damage/eye irritation

Not classified based on available information.

Ingredients:**Aluminum hydroxide:**

Species: Rabbit

Result: No eye irritation

Methyltri(ethylmethylketoxime)silane:

Species: Rabbit

Result: Irritation to eyes, reversing within 7 days

Remarks: Based on test data

Stoddard solvent:

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Species: Rabbit
Result: No eye irritation

Methyltri(ethylmethylketoxime)silane isomers and oligomers:

Species: Rabbit
Result: Irritation to eyes, reversing within 7 days
Remarks: Based on data from similar materials

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Species: Rabbit
Result: No eye irritation
Method: OECD Test Guideline 405

Ethyl methyl ketoxime:

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

Octamethylcyclotetrasiloxane:

Species: Rabbit
Result: No eye irritation
Remarks: Based on test data

Respiratory or skin sensitization

Skin sensitization: May cause an allergic skin reaction.
Respiratory sensitization: Not classified based on available information.

Ingredients:**Aluminum hydroxide:**

Test Type: Maximization Test (GPMT)
Routes of exposure: Skin contact
Species: Guinea pig
Result: negative

Methyltri(ethylmethylketoxime)silane:

Assessment: Probability or evidence of skin sensitization in humans

Test Type: Maximization Test (GPMT)
Species: Guinea pig
Remarks: Causes sensitization.
Based on test data

Stoddard solvent:

Routes of exposure: Skin contact
Species: Guinea pig
Result: negative

Methyltri(ethylmethylketoxime)silane isomers and oligomers:

Assessment: Probability or evidence of skin sensitization in humans

Test Type: Maximization Test (GPMT)
Species: Guinea pig
Remarks: Causes sensitization.

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Based on data from similar materials

Ethyl methyl ketoxime:

Test Type: Buehler Test
 Routes of exposure: Skin contact
 Species: Guinea pig
 Method: OECD Test Guideline 406
 Result: positive

Assessment: Probability or evidence of skin sensitization in humans

Octamethylcyclotetrasiloxane:

Assessment: Does not cause skin sensitization.

Test Type: Maximization Test (GPMT)
 Species: Guinea pig
 Remarks: Based on test data

Germ cell mutagenicity

Not classified based on available information.

Ingredients:
Aluminum hydroxide:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
 Method: OECD Test Guideline 476
 Result: negative

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
 Test species: Rat
 Application Route: Ingestion
 Method: OECD Test Guideline 474
 Result: negative

Methyltri(ethylmethylketoxime)silane:

Genotoxicity in vitro : Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
 Result: negative
 Remarks: Based on test data

Stoddard solvent:

Genotoxicity in vitro : Test Type: In vitro mammalian cell gene mutation test
 Result: negative
 Remarks: Based on data from similar materials

Genotoxicity in vivo : Test Type: Rodent dominant lethal test (germ cell) (in vivo)
 Test species: Mouse
 Application Route: Intraperitoneal injection
 Result: negative
 Remarks: Based on data from similar materials

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

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

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Result: negative

Ethyl methyl ketoxime:

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

Genotoxicity in vivo : Test Type: Mutagenicity (in vivo mammalian bone-marrow cytogenetic test, chromosomal analysis)
Test species: Rat
Application Route: Ingestion
Result: negative

Octamethylcyclotetrasiloxane:

Genotoxicity in vitro : Test Type: Bacterial reverse mutation assay (AMES)
Result: negative
Remarks: Based on test data

: Test Type: Mutagenicity (in vitro mammalian cytogenetic test)
Result: negative
Remarks: Based on test data

: Test Type: Chromosome aberration test in vitro
Result: negative
Remarks: Based on test data

: Test Type: In vitro sister chromatid exchange assay in mammalian cells
Result: negative
Remarks: Based on test data

: Test Type: DNA damage and repair, unscheduled DNA synthesis in mammalian cells (in vitro)
Result: negative
Remarks: Based on test data

Genotoxicity in vivo : Test Type: Mammalian erythrocyte micronucleus test (in vivo cytogenetic assay)
Test species: Rat
Application Route: inhalation (vapor)
Result: negative
Remarks: Based on test data

Test Type: Rodent dominant lethal test (germ cell) (in vivo)
Test species: Rat
Application Route: Ingestion
Result: negative
Remarks: Based on test data

Germ cell mutagenicity- Assessment : Animal testing did not show any mutagenic effects.

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Carcinogenicity

Suspected of causing cancer.

Ingredients:

Ethyl methyl ketoxime:

Species: Rat

Application Route: inhalation (vapor)

Exposure time: 26 Months

Result: positive

Carcinogenicity - Assessment : Limited evidence of carcinogenicity in animal studies

IARC

No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

NTP

No ingredient of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

Reproductive toxicity

Suspected of damaging fertility or the unborn child.

Ingredients:

Aluminum hydroxide:

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 fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

Methyltri(ethylmethylketoxime)silane:

Effects on fertility

: Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat, male and female
Application Route: Ingestion
Symptoms: No effects on fertility.
Remarks: Based on test data

Effects on fetal development : Test Type: Combined repeated dose toxicity study with the reproduction/developmental toxicity screening test
Species: Rat, male and female

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Application Route: Ingestion
Symptoms: No effects on fetal development.
Remarks: Based on test data

Reproductive toxicity - Assessment : No evidence of adverse effects on sexual function and fertility, or on development, based on animal experiments.

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Reproductive toxicity - Assessment : Some evidence of adverse effects on development, based on animal experiments.

Ethyl methyl ketoxime:

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

Effects on fetal development : Test Type: Embryo-fetal development
Species: Rat
Application Route: Ingestion
Result: negative

Octamethylcyclotetrasiloxane:

Effects on fertility : Test Type: Two-generation reproduction toxicity study
Species: Rat, male and female
Application Route: inhalation (vapor)
Symptoms: Effects on fertility.
Remarks: Based on test data

Effects on fetal development : Test Type: Prenatal development toxicity study (teratogenicity)
Species: Rabbit
Application Route: inhalation (vapor)
Symptoms: No effects on fetal development.
Remarks: Based on test data

Reproductive toxicity - Assessment : Some evidence of adverse effects on sexual function and fertility, based on animal experiments.

STOT-single exposure

Not classified based on available information.

Ingredients:
Stoddard solvent:

Assessment: May cause drowsiness or dizziness.

Ethyl methyl ketoxime:

Assessment: May cause drowsiness or dizziness.

STOT-repeated exposure

May cause damage to organs (Blood) through prolonged or repeated exposure if swallowed.

Ingredients:
Methyltri(ethylmethylketoxime)silane:

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Routes of exposure: Ingestion
Target Organs: Blood
Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

Methyltri(ethylmethylketoxime)silane isomers and oligomers:

Routes of exposure: Ingestion
Target Organs: Blood
Assessment: Shown to produce significant health effects in animals at concentrations of >10 to 100 mg/kg bw.

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Routes of exposure: Ingestion
Target Organs: Immune system, Central nervous system
Assessment: Shown to produce significant health effects in animals at concentrations of 10 mg/kg bw or less.

Ethyl methyl ketoxime:

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

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

Octamethylcyclotetrasiloxane:

Routes of exposure: Ingestion
Assessment: No significant health effects observed in animals at concentrations of 100 mg/kg bw or less.

Routes of exposure: inhalation (vapor)
Assessment: No significant health effects observed in animals at concentrations of 1 mg/l/6h/d or less.

Routes of exposure: Skin contact
Assessment: No significant health effects observed in animals at concentrations of 200 mg/kg bw or less.

Repeated dose toxicity**Ingredients:****Aluminum hydroxide:**

Species: Rat
NOAEL: 302 mg/kg
Application Route: Ingestion
Exposure time: 28 d

Distillates (petroleum), hydrotreated light:

Species: Rat
NOAEL: > 1,000 mg/kg

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Application Route: Ingestion
Exposure time: 90 d

Methyltri(ethylmethylketoxime)silane:

Species: Rat
Application Route: Ingestion
Target Organs: Blood
Remarks: Based on test data

Stoddard solvent:

Species: Rat, male
LOAEL: 750 mg/kg
Application Route: Ingestion
Exposure time: 90 d

Methyltri(ethylmethylketoxime)silane isomers and oligomers:

Species: Rat
Application Route: Ingestion
Target Organs: Blood
Remarks: Based on data from similar materials

Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Species: Rat
NOAEL: < 1.6 mg/kg
Application Route: Ingestion
Exposure time: 90 d
Remarks: Based on data from similar materials

Ethyl methyl ketoxime:

Species: Rat
LOAEL: 0.36 mg/l
Application Route: inhalation (vapor)
Exposure time: 28 d

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

Octamethylcyclotetrasiloxane:

Species: Rat
Application Route: Ingestion
Remarks: Based on test data

Species: Rat
Application Route: inhalation (vapor)
Remarks: Based on test data

Species: Rabbit
Application Route: Skin contact
Remarks: Based on test data

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Aspiration toxicity

Not classified based on available information.

Ingredients:

Distillates (petroleum), hydrotreated light:

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.

Stoddard solvent:

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.

Further information

Product:

Remarks: During use of the material, small amounts of methylethylketoxime (MEKO) will be released. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver tumor rates.

Ingredients:

Octamethylcyclotetrasiloxane:

Remarks: Results from a 2 year repeated vapor inhalation exposure study to rats of octamethylcyclotetrasiloxane (D4) indicate effects (benign uterine adenomas) in the uterus of female animals. This finding occurred at the highest exposure dose (700 ppm) only. Studies to date have not demonstrated if these effects occur through pathways that are relevant to humans. Based on the available information on its potential to cause harm to human health, Health Canada, in a 2008 screening assessment, has concluded that octamethylcyclotetrasiloxane is not entering the environment in a quantity or concentration or under conditions that constitute or may constitute a danger in Canada to human life or health (<http://www.ec.gc.ca/ese-ees/default.asp?lang=En&n=2481B508-1>). Repeated exposure in rats to D4 resulted in protoporphyrin accumulation in the liver. Without knowledge of the specific mechanism leading to the protoporphyrin accumulation the relevance of this finding to humans is unknown.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Ingredients:

Aluminum hydroxide:

Toxicity to fish	: LC50 (Pimephales promelas (fathead minnow)): > 218.64 mg/l Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Selenastrum capricornutum (green algae)): > 100 mg/l Exposure time: 72 h

Methyltri(ethylmethylketoxime)silane:

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- Toxicity to fish : LC50 (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 : ErC50 (Selenastrum capricornutum (green algae)): 94 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 Remarks: Based on data from similar materials
- Ecotoxicology Assessment
 Acute aquatic toxicity : This product has no known ecotoxicological effects.
- Stoddard solvent:**
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1.4 mg/l
 Exposure time: 48 h
 Test substance: Water Accommodated Fraction
- Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): 1.2 mg/l
 Exposure time: 72 h
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR (Daphnia magna (Water flea)): 0.097 mg/l
 Exposure time: 21 d
 Method: OECD Test Guideline 211
 Remarks: Based on data from similar materials
- Dimethylbis[(1-oxoneodecyl)oxy]stannane:**
- Ecotoxicology Assessment
 Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.
- 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 : EC50 (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

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Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 100 mg/l
Exposure time: 21 d
Method: OECD Test Guideline 211

Toxicity to bacteria : EC50 (Pseudomonas putida): 281 mg/l
Exposure time: 17 h

Octamethylcyclotetrasiloxane:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): > 0.022 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia sp.): > 0.015 mg/l
Exposure time: 48 h
Remarks: No toxicity at the limit of solubility.

Toxicity to algae : EC50: > 0.022 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility.

NOEC: 0.022 mg/l
Exposure time: 96 h
Remarks: No toxicity at the limit of solubility.

Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): >= 0.0044 mg/l
Remarks: No toxicity at the limit of solubility.

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): > 0.0079 mg/l
Exposure time: 21 d
Remarks: No toxicity at the limit of solubility.

Toxicity to bacteria : IC50: > 10,000 mg/l
Method: ISO 8192

Ecotoxicology Assessment
Chronic aquatic toxicity : May cause long lasting harmful effects to aquatic life.

Persistence and degradability**Ingredients:****Methyltri(ethylmethylketoxime)silane:**

Biodegradability : Result: Not readily biodegradable.
Biodegradation: 14.5 %
Exposure time: 21 d
Method: OECD Test Guideline 302B
Remarks: Based on data from similar materials

Stoddard solvent:

Biodegradability : Result: Readily biodegradable.
Biodegradation: 75 %
Exposure time: 28 d

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Dimethylbis[(1-oxoneodecyl)oxy]stannane:

Biodegradability : Result: Not readily biodegradable.

Ethyl methyl ketoxime:

Biodegradability : Result: Not readily biodegradable.
 Biodegradation: 27 %
 Exposure time: 21 d
 Method: OECD Test Guideline 301C

Octamethylcyclotetrasiloxane:

Biodegradability : Result: Not readily biodegradable.
 Biodegradation: 3.7 %
 Exposure time: 28 d
 Method: OECD Test Guideline 310

Stability in water : Degradation half life: 69.3 - 144 h (24.6 °C) pH: 7
 Method: OECD Test Guideline 111

Bioaccumulative potential
Ingredients:
Methyltri(ethylmethylketoxime)silane:

Partition coefficient: n-octanol/water : log Pow: 11.2

Stoddard solvent:

Partition coefficient: n-octanol/water : log Pow: > 4
 Remarks: Expert judgment

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

Octamethylcyclotetrasiloxane:

Partition coefficient: n-octanol/water : log Pow: 6.48 (25.1 °C)

Mobility in soil

No data available

Other adverse effects
Ingredients:
Octamethylcyclotetrasiloxane:

Results of PBT and vPvB assessment : Remarks: Octamethylcyclotetrasiloxane (D4) meets the current REACH Annex XIII criteria for PBT and vPvB. In Canada, D4 has been assessed and deemed to meet the PiT criteria. However, D4 does not behave similarly to known PBT/vPvB

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substances. The weight of scientific evidence from field studies shows that D4 is not biomagnifying in aquatic and terrestrial food webs. D4 in air will degrade by reaction with naturally occurring hydroxyl radicals in the atmosphere. Any D4 in air that does not degrade by reaction with hydroxyl radicals is not expected to deposit from the air to water, to land, or to living organisms.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

- Resource Conservation and Recovery Act (RCRA) : When a decision is made to discard this material as supplied, it is classified as a RCRA hazardous waste.
- Waste Code : D001: Ignitability
- Waste from residues : Dispose of in accordance with local regulations.
- Contaminated packaging : Dispose of as unused product.
Empty containers should be taken to an approved waste handling site for recycling or disposal.
Do not burn, or use a cutting torch on, the empty drum.

SECTION 14. TRANSPORT INFORMATION

International Regulation

UNRTDG

- UN number : UN 1268
- Proper shipping name : PETROLEUM DISTILLATES, N.O.S.
- Class : 3
- Packing group : III
- Labels : 3

IATA-DGR

- UN/ID No. : UN 1268
- Proper shipping name : Petroleum distillates, n.o.s.
- Class : 3
- Packing group : III
- Labels : Flammable Liquids
- Packing instruction (cargo aircraft) : 366
- Packing instruction (passenger aircraft) : 355

IMDG-Code

- UN number : UN 1268
- Proper shipping name : PETROLEUM DISTILLATES, N.O.S.
- Class : 3

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Packing group	:	III
Labels	:	3
EmS Code	:	F-E, S-E
Marine pollutant	:	no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Domestic regulation
49 CFR

UN/ID/NA number	:	UN 1268
Proper shipping name	:	PETROLEUM DISTILLATES, N.O.S.

Class	:	CBL
Packing group	:	III
Labels	:	None
ERG Code	:	128
Marine pollutant	:	no
Remarks	:	Above applies only to containers over 119 gallons or 450 liters. Not regulated if shipped in packages less than or equal to 119 gallons (450 liters). If transporting by vessel or aircraft, unless other means of transportation is impracticable, then the product must be shipped as a flammable liquid.

SECTION 15. REGULATORY INFORMATION
EPCRA - Emergency Planning and Community Right-to-Know
CERCLA Reportable Quantity

This material does not contain any components with a CERCLA RQ.

SARA 304 Extremely Hazardous Substances Reportable Quantity

This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards	:	Fire Hazard Acute Health Hazard Chronic Health Hazard
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SARA 302	:	No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.
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SARA 313	:	This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
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US State Regulations
Pennsylvania Right To Know

Aluminum hydroxide	21645-51-2	30 - 50 %
Dimethyl siloxane, hydroxy-terminated	70131-67-8	30 - 50 %

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Distillates (petroleum), hydrotreated light	64742-47-8	5 - 10 %
Methyltri(ethylmethylketoxime)silane	22984-54-9	5 - 10 %
Stoddard solvent	8052-41-3	1 - 5 %
1,2,4-Trimethylbenzene	95-63-6	0.1 - 1 %

New Jersey Right To Know

Aluminum hydroxide	21645-51-2	30 - 50 %
Dimethyl siloxane, hydroxy-terminated	70131-67-8	30 - 50 %
Distillates (petroleum), hydrotreated light	64742-47-8	5 - 10 %
Methyltri(ethylmethylketoxime)silane	22984-54-9	5 - 10 %
Stoddard solvent	8052-41-3	1 - 5 %

California Prop 65

This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

The ingredients of this product are reported in the following inventories:

KECI : All ingredients listed, exempt or notified.

REACH : All ingredients (pre-)registered or exempt.

TSCA : All chemical substances in this material are included on or exempted from listing on the TSCA Inventory of Chemical Substances.

AICS : All ingredients listed or exempt.

IECSC : All ingredients listed or exempt.

ENCS/ISHL : All components are listed on ENCS/ISHL or exempted from inventory listing.

DSL : All chemical substances in this product comply with the CEPA 1999 and NSNR and are on or exempt from listing on the Canadian Domestic Substances List (DSL).

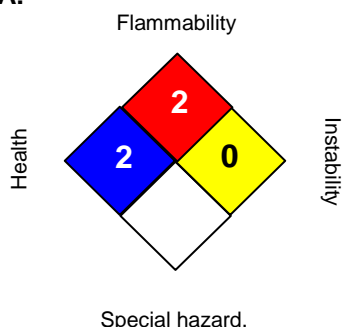
PICCS : All ingredients listed or exempt.

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

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SECTION 16. OTHER INFORMATION
Further information
NFPA:

HMIS III:

HEALTH	2*
FLAMMABILITY	2
PHYSICAL HAZARD	0

0 = not significant, 1 = Slight,
 2 = Moderate, 3 = High
 4 = Extreme, * = Chronic

Full text of other abbreviations

ACGIH	: USA. ACGIH Threshold Limit Values (TLV)
DCC OEL	: Dow Corning Guide
NIOSH REL	: USA. NIOSH Recommended Exposure Limits
OSHA Z-1	: USA. Occupational Exposure Limits (OSHA) - Table Z-1 Limits for Air Contaminants
US WEEL	: USA. Workplace Environmental Exposure Levels (WEEL)
ACGIH / TWA	: 8-hour, time-weighted average
ACGIH / STEL	: Short-term exposure limit
DCC OEL / TWA	: Time weighted average
NIOSH REL / TWA	: Time-weighted average concentration for up to a 10-hour workday during a 40-hour workweek
NIOSH REL / ST	: STEL - 15-minute TWA exposure that should not be exceeded at any time during a workday
NIOSH REL / C	: Ceiling value not be exceeded at any time.
OSHA Z-1 / TWA	: 8-hour time weighted average
US WEEL / TWA	: 8-hr TWA
Sources of key data used to compile the Material Safety Data Sheet	: Internal technical data, data from raw material SDSs, OECD eChem Portal search results and European Chemicals Agency, http://echa.europa.eu/
Revision Date	: 12/22/2014

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, in-

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cluding an assessment of the appropriateness of the SDS material in the user's end product, if applicable.

US / Z8