XIAMETER(R)
SAFETY DATA SHEET

According to article 31 and Annex II of the EU REACH Regulation

Version: 1.0
Revision Date: 20.01.2011
Superseded date: -

DOW CORNING(R) ECE-3650 SYLGARD HVIC WHITE

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY

1.1 Product name : DOW CORNING(R) ECE-3650 SYLGARD HVIC WHITE

1.2 Identified uses : Electrical and electronic applications

Uses advised against : None known.

1.3 Company : Dow Corning Europe S.A.
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2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

According to EU Directives 67/548/EEC or 1999/45/EC:

R10 Flammable.
R43 May cause sensitization by skin contact.

2.2 Label elements

Labelling according to EEC Directive

Contains : Methyltri(ethylmethylketoxime)silane

Symbols : Xi Irritant.

R-phrases : R10 Flammable.
R43 May cause sensitization by skin contact.

S-phrases : S23(S) Do not breathe spray.
S23(V) Do not breathe vapour.
S24/25 Avoid contact with skin and eyes.
S37 Wear suitable gloves.
S51 Use only in well-ventilated areas.

2.3 Other hazards

Vapours may form explosive mixtures with air.

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Silicone dispersion

According to EU Directives 67/548/EEC or 1999/45/EC:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification	
Aluminum hydroxide	21645-51-2	244-492-7	-	45.0	Substance with a Community workplace exposure limit	
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	-	9.5	Xn	R65 R10 R66 R67
Methyltri(ethylmethylketoxime)silane	22984-54-9	245-366-4	-	6.9	 Xi	R43 R36/38
Stoddard solvent; low boiling point naphtha	8052-41-3	232-489-3	-	4.0	Xn F	R65 R11
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	273-028-6	-	0.3	Xn T Xn, Toxic for reproduction - category 3.	R22 R48/25 R63 R53
1,2,4-Trimethylbenzene	95-63-6	202-436-9	-	0.28	 Xi Xn N	R10 R36/37/38 R20 R51/53

According to Regulation (EC) No. 1272/2008:

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Aluminum hydroxide	21645-51-2	244-492-7	-	45.0	Substance with a Community workplace exposure limit
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	-	9.5	Flammable liquid: Category 3 - H226 Specific target organ toxicity - single exposure (Inhalation - vapour): Category 3 (narcotic effects) - H336 Aspiration hazard: Category 1 - H304 EUH066
Methyltri(ethylmethylketoxime)silane	22984-54-9	245-366-4	-	6.9	Skin corrosion/irritation: Category 2 - H315 Serious eye damage/eye irritation: Category 2 - H319 Skin sensitization: Category 1 - H317
Stoddard solvent; low	8052-41-3	232-489-3	-	4.0	

boiling point naphtha					Aspiration hazard: Category 1 - H304
Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	273-028-6	-	0.3	Acute toxicity (Oral): Category 4 - H302 Reproductive toxicity (Oral): Category 2 - H361d Specific target organ toxicity - repeated exposure (Oral): Category 1 (central nervous system, thymus gland, kidney) - H372 Chronic aquatic hazard: Category 4 - H413
1,2,4-Trimethylbenzene	95-63-6	202-436-9	-	0.28	Flammable liquid: Category 3 - H226 Acute toxicity (Inhalation - vapour): Category 4 - H332 Skin corrosion/irritation: Category 2 - H315 Serious eye damage/eye irritation: Category 2 - H319 Specific target organ toxicity - single exposure (Inhalation - vapour): Category 3 (respiratory tract irritation) - H335 Chronic aquatic hazard: Category 2 - H411

For the full text of the R-phrases mentioned in this Section, see Section 16.
For the full text of the H-Statements mentioned in this Section, see Section 16.
CLP classifications are based on all current available data including from known international organizations. These classifications are subject to revision as more information becomes available.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures:

On contact with eyes : Flush with water. If eye irritation persists, consult a specialist.

On skin contact : Flush with water. Wipe off. Obtain medical attention.

If inhaled : Remove to fresh air.

On ingestion : Do not induce vomiting. Obtain medical attention.

4.2 Most important symptoms/effects, acute and delayed : May cause sensitization by skin contact.

5. FIRE-FIGHTING MEASURES

5.1 Suitable extinguishing media : On large fires use dry chemical, foam or water spray (fog). On small fires use carbon dioxide (CO2), dry chemical or water spray. Water can be used to cool fire exposed containers.

Unsuitable extinguishing media : None known.

5.2 Hazards during fire fighting : Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed.
Vapours may form explosive mixtures with air.

Hazardous Combustion Products	:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.
5.3 Special protective equipment/procedures	:	A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Use water spray to keep fire exposed containers cool.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures	:	A self-contained respirator and protective clothing should be worn. Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition.
6.2 Environmental precautions	:	Prevent from spreading or entering into drains, ditches or rivers by using sand, earth or other appropriate barriers. Do not empty into drains.
6.3 Methods and materials for containment and cleaning up	:	Determine the need to evacuate or isolate the area according to your local emergency plan. Eliminate all possible sources of ignition. Very large spills should be contained by bunding, etc... procedures. Mop, wipe or soak up with absorbent material and place in a container with a lid. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

7.1 Advice on safe handling	:	General ventilation is required. Local ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour. Do not breathe spray or mist. Do not ingest. Do not empty into drains.
7.2 Advice on storage	:	Store in a flameproof, well ventilated area. Electrostatic charges may be generated during transfer of product from its container. Ensure that all equipment is electrically earthed. Keep container tightly closed. Vapours may form explosive mixtures with air. Storage temperature: minimum 5 °C, maximum 32 °C
7.3 Specific uses	:	Refer to technical data sheet available on request.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control parameters

Name	CAS-No.	Exposure Limits
Aluminum hydroxide	21645-51-2	4 mg/m3 TWA Respirable dust 10 mg/m3 TWA Inhalable dust
Methyltri(ethylmethylketoxime) silane	22984-54-9	as methylethyl ketoxim: 3 ppm (8h TWA, Allied Signal), 10 ppm (15 min STEL, Allied Signal).

Dimethylbis[(1-oxoneodecyl)oxy]stannane	68928-76-7	0.1 mg/m3 TWA as Sn 0.2 mg/m3 STEL as Sn
1,2,4-Trimethylbenzene	95-63-6	25 ppm TWA 125 mg/m3 TWA

8.2 Exposure controls

Engineering Controls : Ventilation : Refer to Section 7.1

Personal protection equipment

Respiratory protection : Suitable respiratory protection should be worn if the product is used in large quantities, confined spaces or in other circumstances where the OEL may be approached or exceeded.
A suitable respirator must be worn if the product is used in any circumstances where an aerosol or mist may be generated, such as during spraying or similar activities.
Depending on the working conditions, wear a respiratory mask with filter(s) AP or use a self-contained respirator.
The choice of a filter type depends on the amount and type of chemical being handled in the workplace. Regarding filter characteristics, contact your respiratory protection supplier.

Hand protection : Chemical protective gloves or gauntlets should be worn and removed correctly to avoid skin contamination: Silver shield(TM). 4H(TM). Regarding glove's breakthrough time,contact your chemical protective glove supplier.

Eye/face protection : Face shield or safety goggles.

Skin protection : Wear impervious overalls in circumstances where significant skin contact can occur.

Hygiene measures : Exercise good industrial hygiene practice. Wash after handling, especially before eating, drinking or smoking. Remove contaminated clothing immediately.

Additional information : The occupational exposure guideline for methylethylketoxime (MEKO) currently is under review by an expert review panel (WEEL - Workplace Environmental Exposure Level). Until advised of a revised figure, we recommend exposure levels should be maintained so as to comply with most recent vendor supplied occupational exposure limits. 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 types 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.

Environmental exposure controls : Refer to section 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form : Liquid

Colour	:	Milk white
Odour	:	Solvent odor.
Boiling point/range	:	> 35 °C
Flash point	:	41 °C (Closed Cup)
Explosive properties	:	No Vapours may form explosive mixtures with air.
Specific Gravity	:	1.22
Viscosity	:	4,000 mPa s at 25°C.
Oxidizing properties	:	No

The above information is not intended for use in preparing product specifications.

10. STABILITY AND REACTIVITY

10.1 Reactivity	:	None known.
10.2 Stability	:	Stable under normal usage conditions.
10.3 Possibility of hazardous reactions	:	None known.
10.4 Conditions to avoid	:	Eliminate all possible sources of ignition.
10.5 Materials to avoid	:	Can react with strong oxidising agents.
10.6 Hazardous decomposition products	:	Thermal breakdown of this product during fire or very high heat conditions may evolve the following decomposition products: Silica. Carbon oxides and traces of incompletely burned carbon compounds. Formaldehyde.

11. TOXICOLOGICAL INFORMATION

Acute toxicity:

On contact with eyes	:	Slightly irritating.
On skin contact	:	Slightly irritating. Large amount in contact with significant skin surface areas may cause systemic adverse effects.
If inhaled	:	Single exposure may cause transient drowsiness and dizziness.
On ingestion	:	Small amounts transferred to the mouth by fingers during use should not injure. Swallowing large amounts may cause systemic adverse effects.

Chronic toxicity:

On skin contact	:	Repeated contact can cause sensitisation and allergic dermatitis. Repeated or prolonged contact may cause defatting of the skin, leading to dermatitis. Can irritate on prolonged or repeated skin contact.
If inhaled	:	May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations, unconsciousness.
On ingestion	:	Repeated swallowing may cause systemic adverse effects. Repeated swallowing may cause gastrointestinal irritation and disturbance.
Toxicokinetics, metabolism and distribution	:	Dangerous amounts can be absorbed through the skin.
Other Health Hazard Information	:	This product contains (a) powder(s) hazardous by inhalation. This is not relevant to the current physical form of the product, which is not in a respirable form. Laboratory experiments on rodents have shown methylethylketoxime (MEKO) to temporarily affect the blood's ability to transport oxygen (methaemoglobinaemia). Inhalation can reduce the sense of smell (olfactory cells), which is reversible upon removal from exposure. Rodents exposed to chronic MEKO inhalation throughout their lifetimes showed significant increases in liver tumour rates.

[1] Based on product test data.
[2] Based on test data from similar products.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity effects

No adverse effects on aquatic organisms are predicted.

12.2 Persistence and degradability

The organic components contained in the product are biodegradable, however they are not classified as readily biodegradable. Siloxanes are removed from water by sedimentation or binding to sewage sludge. In soil, siloxanes are degraded. This product hydrolyses in water or moist air, releasing methylethylketoxime and organosilicons.

12.3 Bioaccumulation

Organotin compounds can bioaccumulate.

12.4 Release to waters / Mobility in soil

Fate and effects in waste water treatment plants:

No adverse effects on bacteria are predicted. The siloxanes in this product do not contribute to the BOD.

13. DISPOSAL CONSIDERATIONS

Product and packaging disposal : Dispose of in accordance with local regulations. According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.

14. TRANSPORT INFORMATION

Road / Rail (ADR/RID)

UN No. : UN 1268

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S.

Class : 3

Packing group : III

Labels : 3

Sea transport (IMDG)

UN No. : UN 1268

Proper Shipping Name : PETROLEUM DISTILLATES, N.O.S.

Class : 3

Packing group : III

Emergency Schedule (EmS) : F-E
S-E

Labels : flammable liquid

Air transport (IATA)

UN No. : UN 1268

Proper Shipping Name : Petroleum distillates, n.o.s.

Class : 3

Packing group : III

Labels : Flammable Liquid

15. REGULATORY INFORMATION

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

Status

EINECS	:	All ingredients listed, exempt or notified (ELINCS).
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, exempt or notified.
IECSC	:	All ingredients listed or exempt.
KECL	:	All ingredients listed, exempt or notified.

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16. OTHER INFORMATION

This product safety data sheet was prepared in compliance with article 31 and Annex II of the EU REACH Regulation as well as its relevant amendments, on the approximation of laws, regulations and administrative provisions relative to the classification, packaging and labelling of dangerous substances and preparations.

It is the responsibility of persons in receipt of this Product Safety Data Sheet to ensure that the information contained herein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. If the recipient subsequently produces a formulation containing the product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Product Safety Data Sheet to their own Product Safety Data Sheet in compliance with article 31 and Annex II of the EU REACH Regulation.

All information and instructions provided in this Safety Data Sheet (SDS) are based on the current state of scientific and technical knowledge at the date indicated on the present SDS. Dow Corning supplying entity shall not be held responsible for any defect in the product covered by this SDS , should the existence of such defect not be detectable considering the current state of scientific and technical knowledge.

As stated above, this Safety Data Sheet has been prepared in compliance with applicable European law. If you purchase this material outside Europe, where compliance laws may differ, you should receive from your local supplier a SDS applicable to the country in which the product is sold and intended to be used. Please note that the appearance and content of the SDS may vary - even for the same product - between different countries, reflecting the different compliance requirements.

Source of information: Internal data and publically available information

R10 Flammable., **R20** Harmful by inhalation., **R22** Harmful if swallowed., **R36/37/38** Irritating to eyes, respiratory system and skin., **R36/38** Irritating to eyes and skin., **R43** May cause sensitization by skin contact., **R48/25** Toxic: danger of serious damage to health by prolonged exposure if swallowed., **R51/53** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment., **R53** May cause long-term adverse effects in the aquatic environment., **R63** Possible risk of harm to the unborn child., **R65** Harmful: May cause lung damage if swallowed., **R66** Repeated exposure may cause skin dryness or cracking., **R67** Vapours may cause drowsiness and dizziness.

H226 Flammable liquid and vapour., **H302** Harmful if swallowed., **H304** May be fatal if swallowed and enters airways., **H315** Causes skin irritation., **H317** May cause an allergic skin reaction., **H319** Causes serious eye irritation., **H332** Harmful if inhaled., **H335** May cause respiratory irritation., **H336** May cause drowsiness or dizziness., **H361d** Suspected of damaging the unborn child., **H411** Toxic to aquatic life with long lasting effects., **H413** May cause long lasting harmful effects to aquatic life.

http://www.xiameter.com