DOW CORNING

SAFETY DATA SHEET

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

Version: 4.0
Revision Date: 30.01.2014
Superseded date: 21.12.2011

DOW CORNING(R) 3145 RTV MIL-A-46146 ADHESIVE/SEALANT-CLEAR

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

1.1 Product name : DOW CORNING(R) 3145 RTV MIL-A-46146 ADHESIVE/SEALANT-CLEAR

1.2 Identified uses : Electrical and electronic applications
Adhesive, binding agents

Uses advised against : None known.

1.3 Company : Dow Corning Europe S.A.
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1.4 Emergency Phone Number :

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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:

R43 May cause sensitization by skin contact.

2.2 Label elements

Labelling according to EEC Directive

Contains : Trimethoxy(methyl)silane

Symbols : Xi Irritant.

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

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

3. COMPOSITION / INFORMATION ON INGREDIENTS

Chemical characterization: Silicone elastomer

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification	
Trimethylated silica	68909-20-6	272-697-1	-	24.0		R66
Trimethoxy(methyl)silane	1185-55-3	214-685-0	01-2119517436-40	7.0	F	R43 R11
Methanol	67-56-1	200-659-6	01-2119433307-44	0.1	F T	R11 R23/24/25 R39/23/24/25

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

Name	CAS-No.	EINECS/ ELINCS No.	REACH Registration Number	Conc. (% w/w)	Classification
Trimethylated silica	68909-20-6	272-697-1	-	24.0	Substance with a Community workplace exposure limit
Trimethoxy(methyl)silane	1185-55-3	214-685-0	01-2119517436-40	7.0	Flammable liquid: Category 2 - H225 Skin sensitization: Category 1 - H317
Methanol	67-56-1	200-659-6	01-2119433307-44	0.1	Flammable liquid: Category 2 - H225 Acute toxicity (Oral): Category 3 - H301 Acute toxicity (Dermal): Category 3 - H311 Acute toxicity (Inhalation - vapour): Category 3 - H331 Specific target organ toxicity - single exposure (Dermal): Category 1 (eye - retina, central nervous system) - H370 Specific target organ toxicity - single exposure (Inhalation - vapour): Category 1 (eye - retina, central nervous system) - H370 Specific target organ toxicity - single exposure (Oral): Category 1 (eye - retina, central nervous system) - H370

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.
On skin contact	:	Flush with water. Wipe off. Obtain medical attention.
If inhaled	:	Remove to fresh air.
On ingestion	:	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 small fires use carbon dioxide (CO2), dry chemical or water spray. On large fires use dry chemical, foam or water spray (fog). Water can be used to cool fire exposed containers.
Unsuitable extinguishing media	:	None known.
5.2 Hazards during fire fighting	:	None known.
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	:	Wear proper protective equipment.
6.2 Environmental precautions	:	Do not allow large quantities to enter drains or surface waters.
6.3 Methods and materials for containment and cleaning up	:	Scrape up and place in a container fitted with a lid. The spilled product produces an extremely slippery surface.

7. HANDLING AND STORAGE

7.1 Advice on safe handling : General ventilation is recommended. Local ventilation is recommended. Avoid skin and eye contact. Do not breathe vapour. Do not empty into drains.

7.2 Advice on storage : Do not store with oxidizing agents. Keep container closed and store away from water or moisture.
Storage temperature: 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
Trimethoxy(methyl)silane	1185-55-3	50 ppm (8h TWA) - Dow Corning recommendation.
Methanol	67-56-1	200 ppm TWA 250 ppm STEL 266 mg/m3 TWA 333 mg/m3 STEL

8.2 Exposure controls

Engineering Controls : Ventilation : Refer to Section 7.1

Personal protection equipment

Respiratory protection : Contact with water or humid air will form methanol. Please take into account any occupational exposure limits for methanol which are applicable in your country.
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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.
Depending on the working conditions, wear a respiratory mask with filter(s) AX 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 : Safety glasses should be worn.

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	:	These precautions are for room temperature handling. Use at elevated temperature or aerosol/spray applications may require added precautions.
Environmental exposure controls	:	Refer to section 6 and 12.

9. PHYSICAL AND CHEMICAL PROPERTIES

Form	:	Paste
Colour	:	Translucent white
Odour	:	Slight
Explosive properties	:	No
Specific Gravity	:	1.12
Oxidizing properties	:	No

The above information is not intended for use in preparing product specifications. Contact Dow Corning before writing specifications.

10. STABILITY AND REACTIVITY

10.1 Reactivity	:	This product releases methanol.
10.2 Stability	:	Stable under normal usage conditions.
10.3 Possibility of hazardous reactions	:	None known.
10.4 Conditions to avoid	:	None established.
10.5 Materials to avoid	:	Can react with strong oxidising agents. Keep from any possible contact with water. Protect from moisture
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	:	May cause temporary discomfort.

On skin contact	:	Large amount in contact with significant skin surface areas may cause systemic adverse effects.
If inhaled	:	May cause dizziness, drowsiness, confusion, headaches, nausea, and at high concentrations, unconsciousness.
On ingestion	:	Forms methanol. Swallowing large amounts may cause systemic adverse effects and blindness.
Dermal LD50 (Rabbit)	:	> 2,000 mg/kg

Chronic toxicity:

On skin contact	:	Prolonged or repeated dermal contact may cause systemic adverse effect. Repeated contact can cause sensitisation and allergic dermatitis.
If inhaled	:	Prolonged or repeated inhalation may cause systemic adverse effects.
On ingestion	:	Repeated swallowing may cause systemic adverse effects.
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. Product may emit formaldehyde vapour at temperatures above 180ºC in the presence of air. Formaldehyde vapour is a suspected carcinogen, toxic byinhalation and irritating to eyes and the respiratory system. Exposure limits should be strictly respected.

[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

Solid material, insoluble in water. No adverse effects are predicted.

12.3 Bioaccumulation

No bioaccumulation potential.

12.4 Release to waters / Mobility in soil

Fate and effects in waste water treatment plants:

No adverse effects on bacteria are predicted.

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)

Not subject to ADR/RID.

Sea transport (IMDG)

Not subject to IMDG code.

Air transport (IATA)

Not subject to IATA regulations.

15. REGULATORY INFORMATION

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

Status

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

EINECS : All ingredients listed or exempt.

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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 amendements, 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 Dow Corning product, it is the recipient's sole responsibility to ensure the transfer of all relevant information from the Dow Corning 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 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 Dow Corning 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. Should you have any question, please refer to your local Dow Corning supplier.

Source of information: Internal data and publically available information

R11 Highly flammable., **R23/24/25** Toxic by inhalation, in contact with skin and if swallowed., **R39/23/24/25** Toxic: danger of very serious irreversible effects through inhalation, in contact with skin and if swallowed., **R43** May cause sensitization by skin contact., **R66** Repeated exposure may cause skin dryness or cracking.

H225 Highly flammable liquid and vapour., **H301** Toxic if swallowed., **H311** Toxic in contact with skin., **H317** May cause an allergic skin reaction., **H331** Toxic if inhaled.

OCEAN CHIPS
Океан Электроники
Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

AVIC JONHON

«JONHON» (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

«FORSTAR» (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

FORSTAR®

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