

Revision Date: 2016/07/06

ELEMENT14* PDMS 5-A

SAFETY DATA SHEET

1. Identification of the substance or mixture and of the supplier

GHS Product identifier: ELEMENT14* PDMS 5-A

Recommended use of the chemical and restrictions on use

Recommended use: Industrial use

Recommended restrictions: None known.

Supplier's details

Manufacturer Momentive Performance Materials GmbH

Chempark Leverkusen Gebaeude V7

DE - 51368 Leverkusen

Germany

Distributor Information : DC Products Pty Limited

Unit 117 45 Gilby Road

Mount Waverley 3149 Australia

Contact person Viren Kumar

Telephone +61 3 95588898

Emergency telephone number

Supplier 61 418 529 118

2. Hazard(s) identification

GHS classification of substance or mixture, and national or regional information:

Not classified

GHS label elements

Hazard symbol(s): No symbol

Signal Word: none

Hazard Statement(s): not applicable

Precautionary statement(s):

Prevention: not applicable

Response: not applicable

Storage: not applicable

Disposal: not applicable

None.

Other hazards which do not

result in GHS classification:

3. Composition/information on ingredients

Substance(s) formed under

Polydimethylsiloxane

the conditions of use:

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Substance

Composition Comments: No hazardous ingredients.

4. First-aid measures

Description of necessary first-aid measures

Ingestion: Call a physician or poison control center immediately. Only induce vomiting

at the instruction of medical personnel. Never give anything by mouth to an

unconscious person.

Inhalation: "If inhaled, move victim to fresh air and seek medical attention."

Skin Contact: Wash area with soap and water. Get medical attention if symptoms occur.

Eye contact: Rinse immediately with plenty of water. Get medical attention if symptoms

occur.

Most important symptoms/effects, acute and delayed

Symptoms: Treatment is symptomatic and supportive.

Hazards: No data available.

Indication of immediate medical attention and special treatment needed

Treatment: Treatment is symptomatic and supportive.

5. Fire-fighting measures

General Fire Hazards: Collect contaminated fire extinguishing water separately. This must not be

discharged into drains.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Extinguish with foam, carbon dioxide, dry powder or water fog.

Unsuitable extinguishing

media:

Avoid water in straight hose stream; will scatter and spread fire.

Specific hazards arising from

the chemical:

No data available.

Special protective action for fire fighters

Special fire fighting

No data available.

procedures:

Special protective

Wear self-contained breathing apparatus and protective clothing.

equipment for fire-fighters:

6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures:

Keep container closed. Avoid contact with skin and eyes. Attention: Not for

injection into humans.

Environmental Precautions:

Do not allow runoff to sewer, waterway or ground.

Methods and material for containment and cleaning up: Collect spillage with granulates, sawdust, rags or other absorbent. Shovel

up and place in a container for salvage or disposal.

7. Handling and storage

Precautions to ensure safe

handling:

Good personal hygiene is necessary. Wash hands and contaminated areas

with water and soap before leaving the work site.

Conditions for safe storage,

including any incompatibilities:

Keep container tightly closed in a cool, well-ventilated place.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

None of the components have assigned exposure limits.

Biological Limit Values

None of the components have assigned exposure limits.

Appropriate Engineering Controls:

Eye wash facilities and emergency shower must be available when handling this product. Ventilation and other forms of engineering controls are preferred for controlling exposures. Respiratory protection may be needed for nonroutine or emergency situations.

Individual protection measures, such as personal protective equipment

Eye/face protection: Safety glasses with side shields

Skin Protection

Hand Protection: Chemical resistant gloves

Other: Wear suitable protective clothing and eye/face protection.

Respiratory Protection: Wear suitable respiratory protection.

Hygiene measures: Avoid contact with eyes, skin, and clothing. Wash hands after handling.

When using do not eat, drink or smoke.

9. Physical and chemical properties

Appearance

Physical state: liquid Form: liquid Color: Colorless Odorless Odor:

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Odor threshold: No data available. pH: not applicable Melting point/freezing point: ca. -100 °C

Initial boiling point and boiling range: No data available.

Flash Point: > 120 °C

Evaporation rate: No data available. No data available. Flammability (solid, gas):

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): No data available. Flammability limit - lower (%): No data available. Explosive limit - upper (%): No data available. Explosive limit - lower (%): No data available. 1.33 hPa (20 °C) Vapor pressure:

Vapor density: > 1.0

Density: No data available. No data available. Relative density:

Solubility(ies)

Solubility in water: Insoluble

Solubility (other): Soluble in toluene No data available.

Partition coefficient (n-octanol/water) Log

Auto-ignition temperature: No data available. **Decomposition temperature:** No data available. SADT: No data available. Viscosity, dynamic: 5 mPa·s (20 °C) No data available. Viscosity, kinematic:

10. Stability and reactivity

No data available. Reactivity:

Chemical Stability: Material is stable under normal conditions. Possibility of hazardous Hazardous polymerisation does not occur.

reactions:

Incompatible Materials: None known.

Hazardous Decomposition

Conditions to avoid:

In case of fire, gives off (emits): Carbon dioxide Silicon dioxide.

Keep away from heat, sparks and open flame.

Products: Measurements at temperatures above 150°C in presence of air (oxygen)

have shown that small amounts of formaldehyde are formed due to

oxidative degradation.

11. Toxicological information

Information on likely routes of exposure

No data available. Ingestion:

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Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Symptoms related to the physical, chemical and toxicological characteristics

Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

Product: LD 50 (Rat, male and female): > > 5,000 mg/kg Literature Reference

Dermal

Product: LD 50 (Rabbit): > 10,000 mg/kg

Literature Reference

Inhalation

Product: No data available.

Repeated dose toxicity

Product: (Mouse, Oral, 5 d): 25 mg/kg No adverse effects due to ingestion are

expected.

Skin Corrosion/Irritation

Product: (Rabbit): No skin irritation Literature Reference

Serious Eye Damage/Eye Irritation

Product: (Rabbit): No eye irritation Literature Reference

Respiratory or Skin Sensitization

Product: Magnusson-Kligmann, OECD-Guideline 406 (Skin Sensitisation) (Guinea

Pig): negative Did not cause sensitization on laboratory animals.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

ACGIH Carcinogen List:

No carcinogenic components identified

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Germ Cell Mutagenicity

In vitro

Product: Ames-Test: negative (not mutagenic) Literature Reference

In vivo

Product: Dominant lethal assay (OECD 478) (Mouse): negative (not mutagenic)

Reproductive toxicity

Product: No data available.

Specific Target Organ Toxicity - Single Exposure
Product:
No data available.

Specific Target Organ Toxicity - Repeated Exposure

Product: No data available.

Aspiration Hazard

Product: Not classified

Other effects: Octamethylcyclotetrasiloxane (D4) Ingestion: Rodents given large doses

via oral gavage of Octamethylcyclotetrasiloxane (1600mg/kg/day,14 days), developed increased liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appear normal) as well as hypertrophy (increased cell size). Inhalation: In

inhalation studies, laboratory rodents exposed to

Octamethylcyclotetrasiloxane (300 ppm five days/week, 90 days)

developed increased liver weights in female animals relative to unexposed control animals. When the exposure was stopped, liver weights returned to normal. Microscopic examination of the liver cells did not show any evidence of pathology. This response in rats, which does not affect the animal's health, is well-documented and widely recognized. It is related to an increase of liver enzymes that metabolize and eliminate a material from the body. The increased liver weight reverses even while the D4 exposure continues. The finding is not adverse, but is considered a natural adaptive change in rats, and does not represent a hazard to humans. Inhalation studies utilizing laboratory rabbits and guinea pigs showed no effects on liver weights. Inhalation exposures typical of industrial usage (5-10 ppm) showed no toxic effects in rodents. Range finding reproductive studies were conducted (whole body inhalation, 70 days prior to mating, through mating, gestation and lactation), with D4. Rats were exposed to 70 and 700 ppm. In the 700 ppm group, there was a statistically significant reduction in mean litter size and in implantation sites. No D4 related clinical signs were observed in the pups and no exposure related pathological findings were found. A two-year, combined chronic/carcinogenicity study, during which rats were exposed to D4 by inhalation, data showed a statistically significant increase in a benign uterine tumor in female rats exposed at the highest level--a level much higher than the low levels that consumers or workers may encounter. An expert panel of independent scientists who have reviewed the results of this research concur that the finding seen in the two-year study occurred through a biological pathway that is specific to the rat and is not relevant to humans. Therefore, this observed effect does not indicate a potential health hazard to humans. In developmental toxicity studies, rats and rabbits were exposed to D4 at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

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12. Ecological information

Ecotoxicity

Acute hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Chronic hazards to the aquatic environment

Fish

Product: No data available.

Aquatic Invertebrates

Product: No data available.

Toxicity to Aquatic Plants

Product: No data available.

Persistence and Degradability

Biodegradation

Product: No data available.

BOD/COD Ratio

Product: No data available.

Bioaccumulative Potential

Bioconcentration Factor (BCF)

Product: No data available.

Partition Coefficient n-octanol / water (log Kow)
Product:
No data available.

Mobility

Mobility in Soil: No data available.

Other Adverse Effects: No data available.

13. Disposal considerations

Disposal methods

Disposal instructions: Can be incinerated when in compliance with local regulations.

Contaminated Packaging: Dispose of as unused product.

14. Transport information

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Not regulated.

RID

Not regulated.

IATA

Not regulated.

IMDG

Not regulated.

Special precautions for user: This product is not regarded as dangerous goods according to the

national and international regulations on the transport of

dangerous goods. Keep away from foodstuffs and animal feed.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

not applicable

15. Regulatory information

Safety, health and environmental regulations specific for the product in question

Thailand. Hazardous Substances Prohibited from On-line Notification System (Notification of Ministry of Industry, B.E. 2547)

Not Regulated

Thailand. List of Hazardous Substances (Notification of Ministry of Industry Re: List of Hazardous Substances B.E. 2556, Annex: Schedules 1 - 6)

Not Regulated

Thailand. Hazardous Substances under Chapter 3, Duties and Civil Liabilities (Notification of Ministry of Industry Re: Hazardous Substances under Chapter 3 of Hazardous Substances Act)

Not Regulated

Thailand. Reportable Hazardous Substances (Notification of Ministry of Industry Re: Bases respecting report of quantity of hazardous materials under Department of Industrial Works, B.E. 2547)

Not Regulated

International regulations

Montreal protocol

not applicable

Stockholm convention

not applicable

Rotterdam convention

not applicable

Kyoto protocol

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not applicable

Inventory Status:

y (positive listing) Australia AICS: **EU EINECS List:** y (positive listing) Japan (ENCS) List: y (positive listing) China Inventory of Existing Chemical Substances: y (positive listing) Korea Existing Chemicals Inv. (KECI): y (positive listing) Canada DSL Inventory List: y (positive listing) Canada NDSL Inventory: n (Negative listing) y (positive listing) New Zealand Inventory of Chemicals: y (positive listing) Philippines PICCS: y (positive listing) US TSCA Inventory: y (positive listing) Taiwan. Taiwan inventory (CSNN):

16.Other information, including date of preparation or last revision

Issue Date: 2016/07/06

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Version #: 1.0

Source of information: No data available.

Further Information:

Disclaimer:

Wear suitable protective clothing, gloves and eye/face protection.

Notice to reader

Unless otherwise specified in section 1.2, Momentive Products are intended for industrial application only.

They are not intended for specific medical applications, neither for long-lasting (> 30 days) implantation into the human body, injected or directly ingested, nor for the manufacture of multiple usable contraceptives.

Further Information

Wear suitable protective clothing, gloves and eye/face protection. 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 given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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