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SS4191A

SAFETY DATA SHEET

1. Identification

Product identifier: SS4191A

Other means of identification

Synonyms: Polydimethylsiloxane in toluene

Recommended use and restriction on use

Recommended use: Paper release product

Restrictions on use: Not known.

Manufacturer/Importer/Distr :

ibutor Information

Momentive Performance Materials LLC

260 Hudson River Road Waterford NY 12188

Contact person : commercial.services@momentive.com

Telephone : General information

+1-800-295-2392

Emergency telephone

number

Supplier : CHEMTREC

1-800-424-9300

2. Hazard(s) identification

Hazard Classification

Physical Hazards

Flammable liquids Category 2

Health Hazards

Skin Corrosion/Irritation Category 2
Toxic to reproduction Category 2
Specific Target Organ Toxicity - Category 3^{1.}

Single Exposure

Specific Target Organ Toxicity - Category 2²

Repeated Exposure

Target Organs

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- 1. Narcotic effect.
- 2. Central nervous system.

Unknown toxicity - Health

| Acute toxicity, oral | 0 % |
|--|-----|
| Acute toxicity, dermal | 0 % |
| Acute toxicity, inhalation, vapor | 0 % |
| Acute toxicity, inhalation, dust or mist | 0 % |

Label Elements

Hazard Symbol:



Signal Word: Danger

Hazard Statement: H225; Highly flammable liquid and vapor.

H315; Causes skin irritation.

H336; May cause drowsiness or dizziness.

H361fd; Suspected of damaging fertility. Suspected of damaging the

unborn child.

H373; May cause damage to organs through prolonged or repeated

exposure.

Precautionary Statements

Prevention: Keep away from heat, hot surfaces, sparks, open flames and other ignition

sources. No smoking. Keep container tightly closed. Ground and bond

container and receiving equipment. Use explosion-proof

[electrical/ventilating/lighting/] equipment. Use non-sparking tools. Take action to prevent static discharges. Wear protective gloves/protective clothing/eye protection/face protection. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust or mists.

Response: IF INHALED: Remove person to fresh air and keep comfortable for

breathing. If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. If

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skin irritation occurs: Get medical advice/attention. IF SWALLOWED: Call a POISON CENTRE/doctor/ if you feel unwell. Rinse mouth. Call a POISON CENTRE/doctor/ if you feel unwell. Specific treatment (see this label). Take

off contaminated clothing. In case of fire: Use ... to extinguish.

Storage: Store in well-ventilated place. Keep cool. Store locked up. Keep container

tightly closed.

Disposal: Dispose of contents/container to an appropriate treatment and disposal

facility in accordance with applicable laws and regulations, and product

characteristics at time of disposal.

Other hazards which do not result in GHS classification:

Static accumulating flammable liquid can become electrostatically charged even in bonded and grounded equipment. Sparks may ignite liquid and

vapor. May cause flash fire or explosion.

Substance(s) formed under the

conditions of use:

Mixture

3. Composition/information on ingredients

Mixtures

| Chemical Identity | CAS number | Content in percent (%)* | Notes |
|------------------------------|------------|-------------------------|---|
| Toluene | 108-88-3 | 50 - <100% | # This substance has workplace exposure limit(s). |
| Octamethylcyclotetrasiloxane | 556-67-2 | 0.1 - <1% | No data available. |

^{*} All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First-aid measures

Ingestion: Do NOT induce vomiting. If conscious, drink plenty of water. Do not give

victim anything to drink if he is unconscious.

Inhalation: Move the exposed person to fresh air at once. When breathing is difficult,

properly trained personnel may assist affected person by administering

100% oxygen. Get medical attention.

Skin Contact: Wash off promptly and flush contaminated skin with water. Promptly

remove clothing if soaked through and flush skin with water. Get medical

attention. Wash contaminated clothing before reuse.

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Eye contact: Rinse immediately with plenty of water, also under the eyelids, for at least

15 minutes. Obtain medical attention without delay, preferably from an

ophthalmologist.

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: Do not use water jet as an extinguisher, as this will spread the fire. Use

water spray to keep fire-exposed containers cool.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

All standard extinguishing agents are suitable.

Unsuitable extinguishing

media:

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

Specific hazards arising from

the chemical:

Vapors are flammable and heavier than air. Vapors may travel across the ground and reach remote ignition sources causing a flashback fire danger. Ground container and transfer equipment to eliminate static electric sparks.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Product may charge electrostatically during pouring or filling. All equipment used when handling the product must be grounded.

Special protective equipment

for fire-fighters:

Firefighters must wear NIOSH/MSHA approved positive pressure selfcontained breathing apparatus with full face mask and full protective

clothing.

6. Accidental release measures

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Personal precautions, protective equipment and emergency procedures: Avoid contact with eyes, skin, and clothing. Keep out of reach of children.

Attention: Not for injection into humans.

Methods and material for containment and cleaning up:

Warn other workers of spill. Wear proper protective equipment as specified in the protective equipment section. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for

disposal.

Notification Procedures: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in

immediate area).

Environmental Precautions: Avoid discharge into drains, water courses or onto the ground.

7. Handling and storage

Precautions for safe handling: Sensitivity to static discharge is expected; material has a flash point below

200 F. Do not breathe vapor/spray. Do not taste or swallow. Avoid contact with eyes, skin, and clothing. See Section 8 of the SDS for Personal Protective Equipment. Wash hands after handling. Material can accumulate static charges which may cause an electrical spark (ignition source). Use

proper bonding and/or grounding procedures.

Conditions for safe storage,

including any incompatibilities:

Keep away from heat, sparks and open flame. Keep container closed. Store

in original container.

8. Exposure controls/personal protection

Control Parameters

Occupational Exposure Limits

| Chemical Identity | Туре | Exposure Limit Values | | Source |
|--------------------------|--------------|-----------------------|--|--|
| Toluene | TWA 20 ppm | | US. ACGIH Threshold Limit Values (03 2015) | |
| | STEL | 150 ppm | 560 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | REL | 100 ppm | 375 mg/m3 | US. NIOSH: Pocket Guide to Chemical Hazards (2010) |
| | TWA | 100 ppm | 375 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | STEL | 150 ppm | 560 mg/m3 | US. OSHA Table Z-1-A (29 CFR 1910.1000) (1989) |
| | TWA | 200 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) |
| | Ceiling | 300 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) |
| | MAX. CONC | 500 ppm | | US. OSHA Table Z-2 (29 CFR 1910.1000) (02 2006) |

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Biological Limit Values

| Chemical Identity | Exposure Limit Values | Source |
|---|--------------------------------|---------------------|
| Toluene (o-Cresol, with hydrolysis: Sampling time: End of shift.) | 0.3 mg/g (Creatinine in urine) | ACGIH BEI (03 2015) |
| Toluene (toluene: Sampling time: Prior to last shift of work week.) | 0.02 mg/l (Blood) | ACGIH BEI (03 2015) |
| Toluene (toluene: Sampling time: End of shift.) | 0.03 mg/l (Urine) | ACGIH BEI (03 2015) |

Appropriate Engineering

Controls

Provide eyewash station and safety shower. General (mechanical) room ventilation is expected to be satisfactory if handled at low temperatures or in covered equipment. Provide adequate ventilation if fumes or vapors are

generated.

Individual protection measures, such as personal protective equipment

General information: General (mechanical) room ventilation is expected to be satisfactory if

handled at low temperatures or in covered equipment.

Eye/face protection: Monogoggles

Skin Protection

Hand Protection: Chemical resistant gloves

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

Respiratory Protection: If exposure limits are exceeded or respiratory irritation is experienced,

NIOSH/MSHA approved respiratory protection should be worn. Supplied air respirators may be required for non-routine or emergency situations. Respiratory protection must be provided in accordance with OSHA

regulations (see 29CFR 1910.134).

Hygiene measures: No data available.

9. Physical and chemical properties

Appearance

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

Odor threshold:

pH:

No data available.

not applicable

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Melting point/freezing point: not applicable

Initial boiling point and boiling range: ca. 111 °C Start of boiling

Flash Point: ca. 4.4 °C

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

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%): 7.00 %(V)
Flammability limit - lower (%): 1.20 %(V)

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

No data available.

No data available.

Vapor pressure: not applicable

Vapor density:No data available.Density:No data available.

Relative density: 0.89

Solubility(ies)

Solubility in water: Insoluble

Solubility (other): No data available.

Partition coefficient (n-octanol/water) Log No data available.

Pow

Auto-ignition temperature: 536.00 °C

Decomposition temperature:No data available.SADT:No data available.Viscosity, dynamic:No data available.Viscosity, kinematic:> 21 mm2/s (40 °C)VOC:No data available.

10. Stability and reactivity

Reactivity: No data available.

Chemical Stability: Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerisation does not occur.

Conditions to avoid: Keep away from sources of ignition - No smoking. Keep away from sources

of ignition - No smoking.

Incompatible Materials: Oxidizing agents.

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Hazardous Decomposition

Products:

Carbon dioxide Formaldehyde. Silicon dioxide. 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

Ingestion: No data available.

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: ATEmix: 7,067.14 mg/kg

Specified substance(s):

Toluene LD 50 (Rat, No data available.): 5,000 mg/kg

Octamethylcyclotetrasilox ane

LD 50 (Rat): 4,800 mg/kg LD 50 (Mouse): 1,700 mg/kg

Dermal

Product: not applicableNot classified for acute toxicity based on available data.

Specified substance(s):

Toluene LD 50 (Rabbit, No data available.): 12,124 mg/kg

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ane

LD 50 (Rat): 2,400 mg/kg

Inhalation

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Product: not applicableNot classified for acute toxicity based on available data.

Specified substance(s):

Toluene LC50 (Rat,): 30.6 mg/l

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tetrasilox LC50 (Rat): 12.1 mg/l LC50 (Rat): 36 mg/l

ane

Repeated dose toxicity

Product: No data available.

Skin Corrosion/Irritation

Product: No data available.

Serious Eye Damage/Eye Irritation

Product: No data available.

Respiratory or Skin Sensitization

Product: No data available.

Carcinogenicity

Product: No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

US. National Toxicology Program (NTP) Report on Carcinogens:

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

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Germ Cell Mutagenicity

In vitro

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox Ames-Test (OECD-Guideline 471 (Genetic Toxicology: Salmonella

ane typhimurium, Reverse Mutation Assay)): negative (not mutagenic)

Mouse Lymphoma Assay (OECD Guidline 476): negative (not mutagenic)

In vivo

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox Chromosomal aberration (OECD-Guideline 474 (Genetic Toxicology:

ane Micronucleus Test)) Inhalation (Rat, male and female): negative

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.

Target Organs

Specific Target Organ Toxicity - Single Exposure: Narcotic effect.

Specific Target Organ Toxicity - Repeated Exposure: Central nervous system.

Aspiration Hazard

Product: No data available.

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Other effects:

Octamethylcyclotetrasiloxane

Ingestion: Rodents given large doses via oral gavage of octamethylcyclotetrasiloxane (1600 mg/kg day, 14 days) developed liver weights relative to unexposed control animals due to hepatocellular hyperplasia (increased number of liver cells which appeared 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. 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 octamethylcyclotetrasiloxane (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.

Interim results from a two generation reproductive study in rats exposed to 500 and 700 ppm D4 (whole body inhalation, 70 days prior to mating through mating, gestation and lactation) resulted in a statistically significant decrease in live mean litter size as well as extended period of off-spring delivery (dystocia). These results were not observed at the 70 and 300 ppm dosing levels.

Preliminary results from an ongoing 24-month combined chronic/oncogenicity study in rats exposed to 10, 30, 150 or 700 ppm D4 showed test-article related effects in the kidney (male and female) and uterus of rats exposed for 12 to 24 months. These effects include increased kidney weight and severity of chronic nephropathy, increased uterine weight, increased incidence of endometrial cell hyperplasia, and an increased incidence of enometrial adenomas. All of these effects were limited to the 700 ppm exposure group.

The relevance of this data to humans is unclear. Further studies are ongoing.

In developmental toxicity studies, rats and rabbits were exposed to octamethylcyclotetrasiloxane at concentrations up to 700 ppm and 500 ppm, respectively. No teratogenic effects (birth defects) were observed in either study.

,The metabolism of other solvents may be inhibited resulting in a potentiation of toxic effects of those chemicals. Uptake is directly proportional to the amount of body fat. Blood levels may be cumulative when exposure is extended. 11/19

,More severe effects if alcohol is consumed. None.



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Ingestion: No data available.

Inhalation: No data available.

Skin Contact: No data available.

Eye contact: No data available.

Oral

No data available.

Dermal

No data available.

Inhalation

No data available.

Repeated dose toxicity

No data available.

Skin Corrosion/Irritation

No data available.

Serious Eye Damage/Eye Irritation

No data available.

Respiratory or Skin Sensitization

No data available.

Carcinogenicity

No data available.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No data available.

US. National Toxicology Program (NTP) Report on Carcinogens:

No data available.

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US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No data available.

Germ Cell Mutagenicity

In vitro

No data available.

Germ Cell Mutagenicity

In vivo

No data available.

Reproductive toxicity

No data available.

Specific Target Organ Toxicity - Single Exposure

No data available.

Specific Target Organ Toxicity - Single Exposure

No data available.

Target Organs

Aspiration Hazard

No data available.

Other effects

No data available.

12. Ecological information

Ecotoxicity:

Acute hazards to the aquatic environment:

Fish

Product: No data available.

Specified substance(s):

Toluene LC0 (Leuciscus idus, 48 h): 52 mg/l

LC50 (Leuciscus idus, 48 h): 70 mg/l

LC50 (Pimephales promelas, 96 h): 34 mg/l

Aquatic Invertebrates

No data available. **Product:**

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Specified substance(s):

Toluene LC0 (Daphnia magna): 93 mg/l

(Daphnia magna): 270 mg/l

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.

Specified substance(s):

Octamethylcyclotetrasilox 3

 $3.7\ \%$ (29 d, 310 Ready Biodegradability - CO_2 in Sealed Vessels

(Headspace Test)) Not readily biodegradable.

BOD/COD Ratio

ane

Product: No data available.

Bioaccumulative potential

Bioconcentration Factor (BCF)

Product: No data available.

Specified substance(s):

Octamethylcyclotetrasilox Fathead Minnow, Bioconcentration Factor (BCF): 12.40

ane

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

Mobility in soil: No data available.

Known or predicted distribution to environmental compartments

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Toluene Octamethylcyclotetrasiloxa

ne

No data available. No data available.

Other adverse effects: No data available.

13. Disposal considerations

General information: The generation of waste should be avoided or minimized wherever

possible. Do not discharge into drains, water courses or onto the ground.

See Section 8 for information on appropriate personal protective

equipment.

Disposal instructions: Disposal should be made in accordance with federal, state and local

regulations.

Contaminated Packaging: Dispose of as unused product.

14. Transport information

DOT

UN Number: UN 1866 UN Proper Shipping Name: Resin solution

Transport Hazard Class(es)

Class: 3
Label(s): 3
Packing Group: II
Marine Pollutant: No

IMDG

UN Number: UN 1866

UN Proper Shipping Name: RESIN SOLUTION

Transport Hazard Class(es)

Class: 3 Label(s): 3

EmS No.: F-E, S-E

Packing Group: II
Marine Pollutant: No
Limited quantity 5.00L

Excepted quantity E2

IATA

UN Number: UN 1866
Proper Shipping Name: Resin solution

Transport Hazard Class(es):

Class: 3 Label(s): 3

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Packing Group:

Cargo aircraft only Packing 364

Instructions:

Passenger and cargo aircraft 364

Packing Instructions:

Limited quantity: 1.00L Packing Instructions: Y341

Excepted quantity E2

Environmental Hazards: Not regulated.

Marine Pollutant: No

15. Regulatory information

US Federal Regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

None present or none present in regulated quantities.

CERCLA Hazardous Substance List (40 CFR 302.4):

<u>Chemical Identity</u> <u>Reportable quantity</u>

Toluene 1,000 lbs.

<u>Chemical Identity</u> <u>Reportable quantity</u>

Toluene 1,000 lbs.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories

Fire Hazard

Immediate (Acute) Health Hazards Delayed (Chronic) Health Hazard

SARA 302 Extremely Hazardous Substance

None present or none present in regulated quantities.

SARA 304 Emergency Release Notification

Chemical Identity Reportable quantity

Toluene 1,000 lbs.

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SARA 311/312 Hazardous Chemical

Chemical Identity Threshold Planning Quantity

Toluene 10000 lbs Octamethylcyclotetrasiloxa 10000 lbs

ne

SARA 313 (TRI Reporting)

Reporting Reporting threshold for

threshold for manufacturing and

<u>Chemical Identity</u> <u>other users</u> <u>processing</u>

Toluene

Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

Chemical Identity Reportable quantity

Toluene Reportable quantity: 1,000 lbs.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

US State Regulations

US. California Proposition 65

This product contains chemical(s) known to the State of California to cause cancer and/or to cause birth defects or other reproductive harm.

Toluene Maximum Allowable Dose Level

(MADL): 13000 µg/day. Developmental toxin.

US. New Jersey Worker and Community Right-to-Know Act

Chemical Identity

Toluene

Siloxanes and Silicones, di-Me hydroxy terminated

Decamethylcyclopentasiloxane Dodecamethylcyclohexasiloxane Octamethylcyclotetrasiloxane

US. Massachusetts RTK - Substance List

Chemical Identity

Toluene

US. Pennsylvania RTK - Hazardous Substances

Chemical Identity

Toluene

US. Rhode Island RTK

Chemical Identity

Toluene

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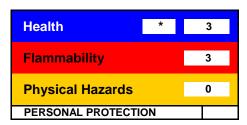
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Inventory Status:

| Australia AICS: | y (positive listing) | Remarks: None. |
|-------------------------------|----------------------|----------------|
| EU EINECS List: | y (positive listing) | Remarks: None. |
| Japan (ENCS) List: | y (positive listing) | Remarks: None. |
| China Inventory of Existing | y (positive listing) | Remarks: None. |
| Chemical Substances: | | |
| Korea Existing Chemicals Inv. | y (positive listing) | Remarks: None. |
| (KECI): | | |
| Canada DSL Inventory List: | y (positive listing) | Remarks: None. |
| Canada NDSL Inventory: | n (Negative listing) | Remarks: None. |
| Philippines PICCS: | y (positive listing) | Remarks: None. |
| US TSCA Inventory: | y (positive listing) | Remarks: None. |
| Taiwan. Taiwan inventory | y (positive listing) | Remarks: None. |
| (CSNN): | | |

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

HMIS Hazard ID



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe; RNP - Rating not possible; *Chronic health effect

Issue Date: 03/14/2017

Revision Date: No data available.

Version #: 2.0

Further Information: No data available.

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Disclaimer:

Notice to reader

Unless otherwise specified in section 1, Momentive products are intended for use in the manufacture and/or formulation of products and are not intended for direct consumer use. These products are not intended for long-lasting (> 30 days) implantation, injection or direct ingestion into the human body, nor for use in the manufacture of multiple use contraceptives. Keep out of the reach of children.

Further Information

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