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## SILGRIP\* PSA590LD

# SAFETY DATA SHEET

## 1. Identification

Product identifier: SILGRIP\* PSA590LD

Other means of identification

Synonyms: Pressure Sensative Adhesive

Recommended use and restriction on use

Recommended use: Additive.
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<sup>1.</sup>

Single Exposure

Specific Target Organ Toxicity - Category 2<sup>2</sup>

Repeated Exposure

# **Target Organs**

1. Narcotic effect.

2. Central nervous system.

## **Unknown toxicity - Health**

7 touto toxiony, oral	Acute toxicity, oral	0 %
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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 vapour.

H315; Causes skin irritation.

H361; Suspected of damaging fertility or the unborn child.

H336; May cause drowsiness or dizziness.

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/fume/gas/mist/vapours/spray.

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

breathing. IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower]. If 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 on this label). Take off contaminated

clothing. In case of fire: Use dry chemical powder for extinction.

**Storage:** Store in a 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

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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.

# 3. Composition/information on ingredients

## **Mixtures**

Chemical Identity	CAS number	Content in percent (%)*	Notes
Toluene	108-88-3	20 - <50%	# This substance has workplace exposure limit(s).
Octamethylcyclotetrasiloxane	556-67-2	0.1 - <1%	No data available.

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

# 4. First-aid measures

General information: No action shall be taken involving any personal risk or without suitable

training.

Ingestion: If swallowed, do NOT induce vomiting. Give a glass of water.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration

using a barrier device. If breathing is difficult give oxygen. Get medical

attention.

**Skin Contact:** Wash contaminated clothing before reuse. Wash with soap and water.

Eye contact: In case of contact with eyes, rinse immediately with plenty of water and

seek medical advice.

# Most important symptoms/effects, acute and delayed

Symptoms: Contains toluene. More severe effects if alcohol is consumed.

Stimulants such as epinephrine may induce ventricular fibrillation. 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.

Hazards: No data available.

## Indication of immediate medical attention and special treatment needed

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Treatment: If ingested, material may be aspirated into the lungs and cause chemical

pneumonitis. Treat appropriately.

# 5. Fire-fighting measures

**General Fire Hazards:** Use standard firefighting procedures and consider the hazards of other

involved materials. Collect contaminated fire extinguishing water

separately. This must not be discharged into drains.

### Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Carbon dioxide Foam. Water mist

Unsuitable extinguishing

media:

Do not use water jet as an extinguisher, as this will spread the 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. In case of fire, carbon monoxide and carbon dioxide may be formed. Oxides of silicon. Measurements at temperatures above 150°C in presence of air (oxygen) have shown that small amounts of formaldehyde are formed due to oxidative degradation.

# Special protective equipment and precautions for firefighters

Special fire fighting procedures:

Keep away from sources of ignition - No smoking. All equipment used when

handling the product must be grounded.

Special protective equipment

for fire-fighters:

Flammable Firefighters must wear NIOSH/MSHA approved positive pressure self-contained breathing apparatus with full face mask and full

protective clothing.

# 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Recommended storage in original container below 30'C (85'F). Keep container closed. Avoid inhalation of vapors and spray mists. Avoid contact with skin and eyes. Use only in well-ventilated areas. Keep out of reach of children. See Section 8 of the SDS for Personal Protective Equipment.

Methods and material for containment and cleaning up:

Wear proper protective equipment as specified in the protective equipment section. Warn other workers of spill. Keep unauthorized personnel away. Wipe, scrape, or soak up in an inert material and put in a container

intended for flammable materials for disposal.

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# 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 in a cool, well-ventilated place. Keep container tightly closed. Use original container or packaging of similar material of construction

# 8. Exposure controls/personal protection

#### **Control Parameters**

**Occupational Exposure Limits** 

Chemical Identity	Туре	Exposure Lim	it 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)
Octamethylcyclotetrasiloxane	TWA	5 ppm		

#### **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

Eye wash facilities and emergency shower must be available when handling this product.

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## Individual protection measures, such as personal protective equipment

**General information:** Ventilation and other forms of engineering controls are preferred for

controlling exposures. Respiratory protection may be needed for non-

routine or emergency situations.

**Eye/face protection:** Safety glasses with side shields Monogoggles

**Skin Protection** 

Hand Protection: Rubber or plastics gloves

Other: rubber overcoat

**Respiratory Protection:** Use a NIOSH/MSHA approved respirator if there is a risk of exposure to

dust/fume at levels exceeding the exposure limits.

**Hygiene measures:** Observe good industrial hygiene practices. 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
Odor: Aromatic

Odor threshold:

pH:

No data available.

not applicable

Melting point/freezing point:

not applicable

Initial boiling point and boiling range:

Ca. 111 °C (1.013 hPa)

Flash Point:

2.00 °C (Closed Cup)

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:** ca. 22 hPa

Vapor density:No data available.Density:ca. 0.98 g/cm3

Relative density: 0.99

Solubility(ies)

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Solubility in water: Insoluble

Solubility (other): Soluble in toluene

Partition coefficient (n-octanol/water) Log

No data available.

Pow:

Auto-ignition temperature: ca. 536 °C

Decomposition temperature:No data available.SADT:No data available.Viscosity, dynamic:No data available.Viscosity, kinematic:No data available.

**VOC:** 370 g/l ;

# 10. Stability and reactivity

**Reactivity:** No dangerous reaction if used as recommended.

**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.

**Incompatible Materials:** Oxidizing agents.

**Hazardous Decomposition** 

**Products:** 

Carbon dioxide Silicon dioxide. Hydrocarbons. 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.

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## Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Octamethylcyclotetrasilox

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

ane

**Dermal** 

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Toluene LD 50 (Rabbit): 12,124 mg/kg

Octamethylcyclotetrasilox

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

ane

Inhalation

**Product:** Not classified for acute toxicity based on available data.

Specified substance(s):

Toluene LC50 (Rat): 30.6 mg/l

Octamethylcyclotetrasilox

ane

LC50 (Rat): 36 mg/l

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.

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# 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

## **Germ Cell Mutagenicity**

In vitro

**Product:** No data available.

Specified substance(s):

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

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.

Other effects: No data available.

Specified substance(s):

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Octamethylcyclotetrasil oxane

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 welldocumented 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.

# 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** 

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**Product:** No data available.

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 3.7 % (29 d, 310 Ready Biodegradability - CO<sub>2</sub> in Sealed Vessels

ane (Headspace Test)) Not readily biodegradable.

**BOD/COD** Ratio

**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

Toluene No data available. Octamethylcyclotetrasiloxa No data available.

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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:** Dispose of according to all federal, state and local applicable 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
Packing Group: II
Cargo aircraft only Packing 364

Instructions:

Passenger and cargo aircraft 364

Packing Instructions:

Limited quantity: 1.00L Packing Instructions: Y341

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Excepted quantity E2

Environmental Hazards: Not regulated.

Marine Pollutant: No

**Special precautions for user:** Flammable Protect from moisture. Keep away from foodstuffs and

animal feed.

# 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.

#### 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**

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

Toluene 1,000 lbs.

# SARA 311/312 Hazardous Chemical

<u>Chemical Identity</u> <u>Threshold Planning Quantity</u>

Toluene 10000 lbs Octamethylcyclotetrasiloxa 10000 lbs

ne

## SARA 313 (TRI Reporting)

Reporting Reporting threshold for

threshold for manufacturing and

Chemical Identity other users processing

Toluene

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

Chemical Identity Reportable quantity

Toluene Reportable quantity: 1,000 lbs.

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## 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.

Benzene Maximum Allowable Dose Level

(MADL): 49 µg/day. Developmental toxin.

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

# **Chemical Identity**

Toluene

Siloxanes and Silicones, di-Me, hydroxy-terminated, reaction products with chlorotrimethylsilane, hydrochloric acid, iso-Pr alc. and sodium silicate

Octamethylcyclotetrasiloxane STODDARD SOLVENT

2-Ethylhexanoic acid, cerium salt

#### **US. Massachusetts RTK - Substance List**

# **Chemical Identity**

Toluene Benzene

# US. Pennsylvania RTK - Hazardous Substances

## **Chemical Identity**

Toluene

## **US. Rhode Island RTK**

# **Chemical Identity**

Toluene

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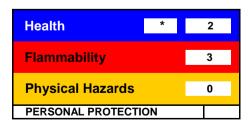
# SILGRIP\* PSA590LD

**Inventory Status:** 

iventory Status:	T	T =
Australia AICS:	On or in compliance with the inventory	Remarks: None.
Canada DSL Inventory List:	On or in compliance with the inventory	Remarks: None.
EINECS, ELINCS or NLP:	On or in compliance with the inventory	Remarks: None.
Japan (ENCS) List:	On or in compliance with the inventory	Remarks: None.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory	Remarks: None.
Korea Existing Chemicals Inv. (KECI):	Not in compliance with the inventory.	Remarks: None.
Canada NDSL Inventory:	Not in compliance with the inventory.	Remarks: None.
Philippines PICCS:	On or in compliance with the inventory	Remarks: None.
US TSCA Inventory:	On or in compliance with the inventory	Remarks: None.
New Zealand Inventory of Chemicals:	On or in compliance with the inventory	Remarks: None.
Taiwan Chemical Substance Inventory:	On or in compliance with the inventory	Remarks: None.
REACH:	If purchased from Momentive Performance Materials GmbH in Leverkusen, Germany, all substances in this product have been registered by Momentive Performance Materials GmbH or upstream in our supply chain or are exempt from registration under Regulation (EC) No 1907/2006 (REACH). For polymers, this includes the constituent monomers and other reactants.	Remarks: None.

# 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

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**Issue Date:** 02/19/2018

**Revision Date:** No data available.

Version #: 3.0

Further Information: No data available.

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**

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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