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29 CFR 1910.1200 (OSHA HazCom 2012)

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Trade name : Pliogrip™ 1900 LM EXP

ADHESIVE

™ Trademark, Bostik or its subsidiaries, registered in

various countries

Relevant identified uses of the substance or mixture and uses advised against

Recommended use : Adhesives

Details of the supplier of the safety data sheet
Sheet
Bostik, Inc.
11320 W Watertown Plank Road
Wauwatosa, WI 53226
United States of America (USA)
+1(800)843-0844; +1(414)774-2250

Emergency telephone number
Chemtrec 1-800-424-9300, outside US 1-703-527-3887

Regulatory information
Rocky Mountain Poison center: 1-866-767-5089

SECTION 2. HAZARDS IDENTIFICATION

GHS Classification

Skin irritation : Category 2

Eye irritation : Category 2A

Respiratory sensitization : Category 1

Skin sensitization : Category 1

Specific target organ toxicity

- single exposure

: Category 3 (Respiratory system)

Specific target organ toxicity

- repeated exposure

(Inhalation)

: Category 2 (Respiratory system, Respiratory Tract)

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GHS label elements

Hazard pictograms





Signal Word : Danger

Hazard Statements : Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing difficulties

if inhaled.

May cause respiratory irritation.

May cause damage to organs (Respiratory system, Respiratory

Tract) through prolonged or repeated exposure if inhaled.

Precautionary Statements

: Prevention:

Do not breathe mist or vapors.

Wash skin thoroughly after handling.

Use only outdoors or in a well-ventilated area.

Contaminated work clothing must not be allowed out of the workplace.

Wear protective gloves/ eye protection/ face protection. In case of inadequate ventilation wear respiratory protection.

Response:

IF ON SKIN: Wash with plenty of soap and water.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/ doctor if you feel

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation or rash occurs: Get medical advice/ attention.

If eye irritation persists: Get medical advice/ attention.

If experiencing respiratory symptoms: Call a POISON CENTER/

doctor.

Take off contaminated clothing and wash before reuse.

Storage:

Store in a well-ventilated place. Keep container tightly closed. Store locked up.

Disposal:

Dispose of contents/ container to an approved waste disposal plant.

Other hazards

None known.

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SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Hazardous components

Hazardous components			
Chemical name	CAS-No.	Classification	Concentration (%)
ALUMINUM SILICATES	254504001-5709	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	>= 5.00 - < 10.00
POLYMER	254504001-5759	Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319 Resp. Sens. 1A; H334 Skin Sens. 1A; H317 STOT SE 3; H335 STOT RE 2; H373	>= 1.50 - < 5.00
ORGANOSILOXANE	800986-5522P	Eye Dam. 1; H318	>= 1.50 - < 5.00

The identity and concentration of one or more component(s) is being withheld under business confidentiality.

TALC	Not a hazardous substance or mixture.	15.05
4,4'-DIPHENYLMETHANE DIISOCYANATE	Comb Dust Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2A; H319	11.392

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Resp. Sens. 1; H334	
Skin Sens. 1; H317	
STOT SE 3; H335	
STOT RE 2; H373	

SECTION 4. FIRST AID MEASURES

General advice : Move out of dangerous area.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended. Move out of dangerous area.

Call a POISON CENTRE or doctor/physician if exposed or

you feel unwell.

Show this safety data sheet to the doctor in attendance.

Do not leave the victim unattended.

If inhaled : Call a physician or poison control centre immediately.

If unconscious, place in recovery position and seek medical

advice.

Move to fresh air.

Call a physician or poison control centre immediately.

Keep patient warm and at rest.

If unconscious, place in recovery position and seek medical

advice.

In case of skin contact : If skin irritation persists, call a physician.

If on skin, rinse well with water.
If on clothes, remove clothes.

Remove contaminated clothing. If irritation develops, get

medical attention.

If on skin, rinse well with water.

Wash contaminated clothing before re-use.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

Keep eye wide open while rinsing.

If eye irritation persists, consult a specialist.

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Immediately flush eye(s) with plenty of water.

Remove contact lenses. Protect unharmed eye.

If swallowed : Keep respiratory tract clear.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician. Take victim immediately to hospital.

Obtain medical attention.

Do not give milk or alcoholic beverages.

Never give anything by mouth to an unconscious person.

If symptoms persist, call a physician.

Most important symptoms and effects, both acute and delayed

: Causes skin irritation.

May cause an allergic skin reaction.

Causes serious eye irritation.

May cause allergy or asthma symptoms or breathing

difficulties if inhaled.

May cause respiratory irritation.

May cause damage to organs through prolonged or repeated

exposure if inhaled.

Severe allergic skin reactions, bronchiospasm and

anaphylactic shock

Symptoms may be delayed.

Rash tearing Nasal irritation Blurred vision Irritation Redness Itching Dermatitis allergic rhinitis Local irritation

burning or stinging of the eye

Notes to physician : Treat symptomatically.

SECTION 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

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Unsuitable extinguishing

media

: High volume water jet

Hazardous combustion

products

: Carbon dioxide (CO2) Carbon monoxide Nitrogen oxides (NOx)

Hydrogen cyanide (hydrocyanic acid)

Isocyanates Hydrocarbons Formaldehyde Methanol Silicon oxides

Specific extinguishing

methods

:

Standard procedure for chemical fires.

Further information : Standard procedure for chemical fires.

Use extinguishing measures that are appropriate to local

circumstances and the surrounding environment.

Special protective equipment

for firefighters

: Wear self-contained breathing apparatus for firefighting if

necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures : Use personal protective equipment. Ensure adequate ventilation.

Environmental precautions : Prevent product from entering drains.

Prevent further leakage or spillage if safe to do so.

If the product contaminates rivers and lakes or drains inform

respective authorities.

Methods and materials for containment and cleaning up

: Soak up with inert absorbent material (e.g. sand, silica gel,

acid binder, universal binder, sawdust).

Keep in suitable, closed containers for disposal.

Other information : Comply with all applicable federal, state, and local regulations.

SECTION 7. HANDLING AND STORAGE

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Advice on protection against :

fire and explosion

Normal measures for preventive fire protection.

Advice on safe handling : Avoid formation of aerosol.

Do not breathe vapours/dust.

Avoid exposure - obtain special instructions before use.

Avoid contact with skin and eyes. For personal protection see section 8.

Smoking, eating and drinking should be prohibited in the

application area.

Provide sufficient air exchange and/or exhaust in work rooms. Dispose of rinse water in accordance with local and national

regulations.

Persons susceptible to skin sensitisation problems or asthma, allergies, chronic or recurrent respiratory disease should not be employed in any process in which this mixture is being

used.

Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated

place.

Observe label precautions.

Electrical installations / working materials must comply with

the technological safety standards.

Further information on

storage stability

No decomposition if stored and applied as directed.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components with workplace control parameters						
Components	CAS-No.	Value type (Form of	Control parameters /	Basis		
		exposure)	Permissible concentration			
ALUMINUM SILICATES	254504001-	TWA	1 mg/m3	ACGIH		
	5709		Respirable			
			particulate matter			
			(Aluminium)			
The identity and concentration of one or more component(s) is being withheld under business confidentiality.						
TALC	14807-96-6	l TWA	20 Million	OSHA Z-3		
TALC	14807-96-6	IVVA	particles per cubic	USHA 2-3		
			foot Dust			
	1		Dusi	1		

TWA

2 mg/m3

OSHA P0

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			respirable dust fraction	
		TWA	2 mg/m3 Respirable	NIOSH REL
		PEL	2 mg/m3 Respirable dust	CAL PEL
		TWA	2 mg/m3 Respirable particulate matter	ACGIH
4,4'-DIPHENYLMETHANE DIISOCYANATE	101-68-8	TWA	0.005 ppm	ACGIH

Hazardous components without workplace control parameters

Components	CAS-No.
POLYMER	254504001-
	5759
ORGANOSILOXANE	800986-
	5522P

Personal protective equipment

Respiratory protection : In the case of vapour formation use a respirator with an

approved filter within the capabilities of the respirator/filter

combination.

Where concentrations are above recommended limits or are unknown, or a cartridge type respirator is not adequate, wear

a positive-pressure supplied-air respirator.

Hand protection

Material : butyl-rubber
Break through time : 480 min
Glove thickness : > 0.5 mm

Remarks : The exact break through time can be obtained from the

protective glove producer and this has to be observed. Gloves should be discarded and replaced if there is any indication of

degradation or chemical breakthrough.

Eye protection : Eye wash bottle with pure water

Tightly fitting safety goggles

Wear face-shield and protective suit for abnormal processing

problems.

Skin and body protection : Impervious clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Wear resistant gloves (consult your safety equipment

supplier).

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Hygiene measures : When using do not eat or drink.

When using do not smoke.

Wash hands before breaks and at the end of workday.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : liquid

Physical state : liquid

Colour : tan

Odour : No information available.

Odour Threshold : No data available

pH : No data available

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : > 93.4 °C

Method: ASTM D3278

Evaporation rate : not determined

Upper explosion limit : Upper explosion limit

not determined

Lower explosion limit : Lower explosion limit

not determined : not determined

Relative vapour density : not determined

Relative density : 1.2 (23 °C)

Density : not determined

Bulk density : 1.2 kg/m3

Solubility(ies)

Vapour pressure

Water solubility : not determined

Solubility in other solvents : No data available

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Partition coefficient: n-

octanol/water

: not determined

Thermal decomposition : No data available

Viscosity

Viscosity, dynamic : not determined

not determined

Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

Molecular weight : No data available

SECTION 10. STABILITY AND REACTIVITY

Reactivity : No dangerous reaction known under conditions of normal use.

No decomposition if stored and applied as directed.

Chemical stability : Stable under normal conditions.

Stable under recommended storage conditions.

Possibility of hazardous

reactions

: Product will not undergo hazardous polymerization.

Conditions to avoid : Protect from frost, heat and sunlight.

Incompatible materials : Strong bases

Oxidizing agents Strong acids

Hazardous decomposition

products

Carbon monoxide Carbon dioxide (CO2) Nitrogen oxides (NOx) hydrogen bromide

Hydrocarbons Acetone

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SECTION 11. TOXICOLOGICAL INFORMATION

Information on likely routes of : Inhalation

exposure

Skin contact Eye contact Ingestion

Acute toxicity

Not classified based on available information.

Components:

POLYMER:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 425

GLP: yes

Acute inhalation toxicity : Symptoms: Increased heart rate, Rapid respiration,

Drowsiness, Headache, Nausea, Vomiting

Assessment: The component/mixture is classified as acute

inhalation toxicity, category 4.

Acute dermal toxicity : (Rabbit): > 9,400 mg/kg

Remarks: Information given is based on data obtained from

similar substances.

ORGANOSILOXANE:

Acute oral toxicity : LD50 (Rat): 8,025 mg/kg

Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5.3 mg/l

Exposure time: 4 h

Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Acute dermal toxicity : LD50 (Rabbit): 4,250 mg/kg

Components:

TALC:

Acute oral toxicity : LD50 (Rat): > 5,000 mg/kg

Method: OECD Test Guideline 423

4,4'-DIPHENYLMETHANE DIISOCYANATE:

Acute oral toxicity : LD50 (Rat): 9,200 mg/kg

Acute inhalation toxicity : LC50 (Rat): > 2.24 mg/l

Exposure time: 1 h

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Test atmosphere: dust/mist

Method: OECD Test Guideline 403

Assessment: The component/mixture is classified as acute

inhalation toxicity, category 4.

Acute dermal toxicity : LD50 (Rabbit): > 7,900 mg/kg

Symptoms: Redness, Swelling of tissue, Itching, Blistering,

Pain

Skin corrosion/irritation

Causes skin irritation.

Product:

Remarks: May cause skin irritation and/or dermatitis.

Remarks: May cause skin irritation and/or dermatitis.

Components:

ALUMINUM SILICATES:

Result: Slight, transient irritation

POLYMER:

Result: Irritating to skin.

Remarks: Information given is based on data obtained from similar substances.

ORGANOSILOXANE:

Result: Slight, transient irritation

Components:

TALC:

Species: reconstructed human epidermis (RhE)

Result: No skin irritation

4,4'-DIPHENYLMETHANE DIISOCYANATE:

Result: Irritating to skin.

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Remarks: May cause irreversible eye damage.

Remarks: Vapours may cause irritation to the eyes, respiratory system and the skin., Causes serious eye irritation.

Components:

ALUMINUM SILICATES:

Result: Slight, transient irritation

POLYMER:

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Result: Irritating to eyes.

ORGANOSILOXANE:

Result: Irreversible effects on the eye

Components:

TALC:

Species: Rabbit

Result: Slight, transient irritation Method: OECD Test Guideline 405

4,4'-DIPHENYLMETHANE DIISOCYANATE:

Result: Irritating to eyes.

Respiratory or skin sensitisation

Skin sensitisation: May cause an allergic skin reaction.

Respiratory sensitisation: May cause allergy or asthma symptoms or breathing difficulties if

inhaled.

Components:

POLYMER:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: May cause sensitisation by skin contact. Result: The product is a skin sensitiser, sub-category 1A.

Assessment: May cause sensitisation by inhalation.

Result: The product is a respiratory sensitiser, sub-category 1A.

ORGANOSILOXANE: Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Components:

TALC:

Test Type: Maximisation Test

Species: Guinea pig

Assessment: Did not cause sensitisation on laboratory animals.

Method: OECD Test Guideline 406

4,4'-DIPHENYLMETHANE DIISOCYANATE:

Assessment: May cause sensitisation by inhalation.

Assessment: May cause sensitisation by skin contact.

Germ cell mutagenicity

Not classified based on available information.

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Components:

POLYMER:

Genotoxicity in vitro : Test Type: Ames test

Result: negative

Remarks: Information given is based on data obtained from

similar substances.

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Test species: Rat

Method: OECD Test Guideline 474

Remarks: Information given is based on data obtained from

similar substances.

ORGANOSILOXANE:

Genotoxicity in vitro : Test Type: Ames test

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation Method: Mutagenicity (Salmonella typhimurium - reverse

mutation assay) Result: positive

: Test species: mouse lymphoma cells

Metabolic activation: with and without metabolic activation

Method: OECD Test Guideline 476

Result: positive

Test species: Chinese hamster ovary cells

Method: OECD Test Guideline 479

Result: positive

Genotoxicity in vivo : Test Type: In vivo micronucleus test

Test species: Mouse (male and female)

Cell type: Bone marrow

Application Route: Intraperitoneal Method: OECD Test Guideline 474

Result: positive

Components:

TALC:

Genotoxicity in vitro : Test Type: In vitro gene mutation study in bacteria

Test species: Salmonella typhimurium

Metabolic activation: with and without metabolic activation

Result: negative

: Test Type: In vitro gene mutation study in bacteria

Test species: Saccharomyces cerevisiae

Metabolic activation: with and without metabolic activation

Result: negative

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Genotoxicity in vivo : Test Type: dominant lethal test

Test species: Rat (male) Cell type: Bone marrow

Result: negative

Carcinogenicity

Not classified based on available information.

Product:

Carcinogenicity -

Assessment

: Methylene bisphenylisocyanate (MDI) aerosol has been reported to be irritating to lungs at a concentration of 1 mg/m3 with no effect observed at 0.2 mg/m3. Although MDI has been reported to cause an increase in non-carcinogenic lung tumors and a single carcinogenic lung tumor at very high concentrations (6 mg/m3), it is not classified as a carcinogen

by IARC, NTP or OSHA.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

May cause respiratory irritation.

Components:

POLYMER:

Exposure routes: Inhalation
Target Organs: Respiratory Tract

Assessment: May cause respiratory irritation.

Components:

4,4'-DIPHENYLMETHANE DIISOCYANATE:

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause respiratory irritation.

STOT - repeated exposure

May cause damage to organs (Respiratory system, Respiratory Tract) through prolonged or repeated exposure if inhaled.

Components:

POLYMER:

Exposure routes: Inhalation Target Organs: Respiratory Tract

Assessment: May cause damage to organs through prolonged or repeated exposure.

Components:

4,4'-DIPHENYLMETHANE DIISOCYANATE:

Exposure routes: Inhalation

Target Organs: Respiratory system

Assessment: May cause damage to organs through prolonged or repeated exposure.

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Aspiration toxicity

Not classified based on available information.

Further information

Product:

Remarks: No data available

Remarks: No data available

Carcinogenicity:

IARC No component of this product present at levels greater than or

equal to 0.1% is identified as probable, possible or confirmed

human carcinogen by IARC.

OSHANo component of this product present at levels greater than or

equal to 0.1% is on OSHA's list of regulated carcinogens.

NTP No component of this product present at levels greater than or

equal to 0.1% is identified as a known or anticipated carcinogen

by NTP.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity

Product:

Ecotoxicology Assessment Short-term (acute) aquatic

hazard

: Not classified based on available information.

Long-term (chronic) aquatic

hazard

: Not classified based on available information.

Components:

POLYMER:

Toxicity to fish : LC50 (Oryzias latipes (Japanese medaka)): > 3,000 mg/l

Exposure time: 96 h
Test Type: semi-static test

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates

(Daphnia magna (Water flea)): > 1,000 mg/l

Exposure time: 24 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: Information given is based on data obtained from

similar substances.

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Toxicity to algae : NOEC (Desmodesmus subspicatus (green algae)): 1,640 mg/l

End point: Growth inhibition

Exposure time: 72 h Test Type: static test

Method: OECD Test Guideline 201

Remarks: Information given is based on data obtained from

similar substances.

ORGANOSILOXANE:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 55 mg/l

Exposure time: 96 h Test Type: semi-static test

Toxicity to daphnia and other

aquatic invertebrates

: EC50 (Daphnia (water flea)): 324 mg/l

Exposure time: 48 h Test Type: static test

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (microalgae)): 350

mg/l

Exposure time: 96 h Test Type: static test

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia (water flea)): 100 mg/l

Exposure time: 21 d

4,4'-DIPHENYLMETHANE DIISOCYANATE:

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): > 3,000 mg/l

Exposure time: 96 h
Test Type: semi-static test

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): > 100 mg/l

Exposure time: 24 h Test Type: static test

Method: OECD Test Guideline 202

Remarks: Information given is based on data obtained from

similar substances.

Toxicity to daphnia and other

aquatic invertebrates (Chronic toxicity)

: NOEC (Daphnia magna (Water flea)): > 10 mg/l

Exposure time: 21 d

End point: Reproduction Test Test Type: semi-static test

Method: OECD Test Guideline 211

Remarks: Information given is based on data obtained from

similar substances.

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Persistence and degradability

POLYMER:

Biodegradability : Result: Not readily biodegradable.

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 302C

ORGANOSILOXANE:

Biodegradability : aerobic

Result: Not readily biodegradable.

Biodegradation: 37 % Exposure time: 28 d

GLP: yes

TALC:

Biodegradability : Result: The methods for determining biodegradability are not

applicable to inorganic substances.

4,4'-DIPHENYLMETHANE DIISOCYANATE:

Biodegradability : Result: Not biodegradable

Biodegradation: 0 % Exposure time: 28 d

Method: OECD Test Guideline 302C

Remarks: Information given is based on data obtained from

similar substances.

No data available

Bioaccumulative potential

ORGANOSILOXANE:

Partition coefficient: n- : log Pow: Estimated 0.5 (20 °C)

octanol/water

No data available

Mobility in soil

No data available

Other adverse effects

No data available

Product:

Additional ecological

information

: No data available

No data available

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SECTION 13. DISPOSAL CONSIDERATIONS

Disposal methods

General advice : Do not dispose of waste into sewer.

Do not contaminate ponds, waterways or ditches with

chemical or used container.

Send to a licensed waste management company.

Dispose of in accordance with all applicable local, state and

federal regulations.

Contaminated packaging : Empty remaining contents.

Dispose of as unused product. Do not re-use empty containers.

SECTION 14. TRANSPORT INFORMATION

International transport regulations

REGULATION

ID NUMBER	PROPER SHIPPING NAME	*HAZARD CLASS	SUBSIDIARY HAZARDS	PACKING GROUP	MARINE POLLUTANT / LTD. QTY.
-----------	----------------------	------------------	-----------------------	------------------	------------------------------------

U.S. DOT - ROAD

0.0.20.
Not dangerous goods

CFR RAIL C

Not dangerous goods

U.S. DOT - INLAND WATERWAYS

Not dangerous goods	

TDG ROAD C

IDO_INOND_O	
	Not dangerous goods

TDG RAIL C

Not dangerous goods	

TDG_INWT_C

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Not dangerous goods			

INTERNATIONAL MARITIME DANGEROUS GOODS

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO

Not dangerous goods

INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER

Not dangerous goods

MX DG

Not dange	ous goods

*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID

Marine pollutant	no

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15. REGULATORY INFORMATION

TSCA list

No substances are subject to a Significant New Use Rule.

No substances are subject to TSCA 12(b) export notification requirements.

EPCRA - Emergency Planning and Community Right-to-Know Act

CERCLA Reportable Quantity

Components	CAS-No.	Component RQ	Calculated product RQ
		(lbs)	(lbs)
4,4'-DIPHENYLMETHANE	101-68-8	5000	43890
DIISOCYANATE			

SARA 304 Extremely Hazardous Substances Reportable Quantity

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This material does not contain any components with a section 304 EHS RQ.

SARA 311/312 Hazards : Skin corrosion or irritation

Serious eye damage or eye irritation Respiratory or skin sensitisation

Specific target organ toxicity (single or repeated exposure)

SARA 302 : This material does not contain any components with a section

302 EHS TPQ.

SARA 313 The following components are subject to reporting levels

established by SARA Title III, Section 313:

4,4'-DIPHENYLMETHANE 101-68-8 11.39 %

DIISOCYANATE

US State Regulations

Pennsylvania Right To Know

ALUMINUM SILICATES 254504001-

5709

POLYMER 254504001-

5759

The identity and concentration of one or more component(s) is

being withheld under business confidentiality.

DIPHENYLMETHANE-4,4'-DIISOCYANATE 9048-57-1

POLYPROPYLENE GLYCOL POLYMER

TALC 14807-96-6

4,4'-DIPHENYLMETHANE DIISOCYANATE 101-68-8

New Jersey Right To Know

ALUMINUM SILICATES 254504001-

5709

POLYMER 254504001-

5759

The identity and concentration of one or more component(s) is

being withheld under business confidentiality.

DIPHENYLMETHANE-4,4'-DIISOCYANATE 9048-57-1

POLYPROPYLENE GLYCOL POLYMER

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TALC 14807-96-6

4,4'-DIPHENYLMETHANE DIISOCYANATE 101-68-8

California Prop. 65

WARNING: This product can expose you to chemicals including Talc (powder), Quartz, which is/are known to the State of California to cause cancer, and methanol, which is/are known to the State of California to cause birth defects or other reproductive harm. For more information go to www.P65Warnings.ca.gov.

The components of this product are reported in the following inventories:

TCSI : On the inventory, or in compliance with the inventory

TSCA : All substances listed as active on the TSCA inventory

AIIC : Not in compliance with the inventory

DSL : All components of this product are on the Canadian DSL

ENCS : On the inventory, or in compliance with the inventory

ISHL : Not in compliance with the inventory

KECI : On the inventory, or in compliance with the inventory

PICCS : On the inventory, or in compliance with the inventory

IECSC : On the inventory, or in compliance with the inventory

NZIoC : Not in compliance with the inventory

Inventories

AIIC (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TECI (Thailand), TSCA (USA)

Other regulations

US. Drug Enforcement Administration (DEA) Listed Precursor and Essential Chemicals (21 CFR 1310) Not applicable

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SECTION 16. OTHER INFORMATION

Further information

NFPA 704:

Health 2 0 Instability

Special hazard

HMIS® IV:

HEALTH	*	2
FLAMMABILITY		1
PHYSICAL HAZARD		0

HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

Full text of H-Statements

H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	May cause respiratory irritation.
H373	May cause damage to organs through prolonged or repeated exposure if inhaled.

Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DOT - Department of Transportation; DSL - Domestic Substances List (Canada); ECx - Concentration associated with x% response; EHS - Extremely Hazardous Substance; ELx - Loading rate associated with x% response; EmS -

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Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx -Concentration associated with x% growth rate response; ERG - Emergency Response Guide; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; HMIS - Hazardous Materials Identification System; IARC - International Agency for Research on Cancer; IATA -International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO -International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO -International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 -Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; MSHA - Mine Safety and Health Administration; n.o.s. - Not Otherwise Specified; NFPA -National Fire Protection Association; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NTP - National Toxicology Program; NZIoC - New Zealand Inventory of Chemicals; OECD -Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS -Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; RCRA - Resource Conservation and Recovery Act; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RQ - Reportable Quantity; SADT - Self-Accelerating Decomposition Temperature; SARA - Superfund Amendments and Reauthorization Act; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

This sds has been prepared by Bostik. (http://www.Bostik.com)

Sources of key data used to compile the Safety Data Sheet

Bostik internal data including own and sponsored test reports European Union Law with content from the Official Journal of the European Union.

European Chemicals Agency; the EU authority implementing the EU's chemicals legislation for companies.

The German Water Hazard Classes.

ReachCentrum; a series of support services to help comply with REACH regulations.

The European Commission; proposing legislation,

administering and implementing EU policies, and enforcing EU law.

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport. Cefic, the European Chemical Industry Council.

ESIS European Chemical Substances Information System

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