




Page: 1	
 <b>Ashland</b> always solving	
<b>SAFETY DATA SHEET</b>	Revision Date: 04/14/2020
	Print Date: 6/22/2021
	SDS Number: R0171550
Pliogrip™ 6611 ADHESIVE ™ Trademark, Ashland or its subsidiaries, registered in various countries 149153	Version: 1.9

29 CFR 1910.1200 (OSHA HazCom 2012)

**SECTION 1. PRODUCT AND COMPANY IDENTIFICATION**

**Product identifier**

Trade name : Pliogrip™ 6611  
 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered in various countries

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

Recommended use : Adhesives

<p><b>Details of the supplier of the safety data sheet</b>          Ashland          P.O. Box 2219          Columbus, OH 43216          United States of America (USA)          +1-905-336-6925</p> <p>EHSProductSafety@ashland.com</p>	<p><b>Emergency telephone number</b>          1-800-ASHLAND (1-800-274-5263)</p> <p><b>Regulatory information</b>          1-614-790-3333</p> <p><b>Product Information</b>          +1-905-336-6925</p>
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**SECTION 2. HAZARDS IDENTIFICATION**

**GHS Classification**

Skin irritation : Category 2  
 Eye irritation : Category 2A  
 Respiratory sensitization : Category 1  
 Skin sensitization : Category 1  
 Reproductive toxicity : Category 2

**GHS label elements**

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

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.  
 Suspected of damaging fertility or the unborn child.

Precautionary Statements

: **Prevention:**  
 Obtain special instructions before use.  
 Do not handle until all safety precautions have been read and understood.  
 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.  
 Wash skin thoroughly after handling.  
 Contaminated work clothing must not be allowed out of the workplace.  
 Wear protective gloves/ protective clothing/ 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: If breathing is difficult, 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 exposed or concerned: Get medical advice/ attention.  
 If skin irritation or rash occurs: Get medical advice/ attention.  
 If eye irritation persists: Get medical advice/ attention.  
 Take off contaminated clothing and wash before reuse.  
**Storage:**  
 Store locked up.  
**Disposal:**  
 Dispose of contents/ container to an approved waste disposal plant.

**Other hazards**

None known.

**SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS**

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

Substance / Mixture : Mixture

**Hazardous components**

Chemical name	CAS-No.	Classification	Concentration (%)
ETHYLENEDIAMINE, ETHOXYLATED AND PROPOXYLATED	26316-40-5	Eye Irrit. 2A; H319  Skin Sens. 1; H317	31.473
SILICA COLLOIDAL AMORPHOUS	112945-52-5	This material is not considered hazardous under the OSHA Hazard Communication Standard (HazCom 2012).	5.843
PIPERAZINE	110-85-0	Flam. Sol. 1; H228  Comb Dust Skin Corr. 1B; H314  Eye Dam. 1; H318  Resp. Sens. 1B; H334  Skin Sens. 1B; H317  Repr. 2; H361	1.665

**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.
- If inhaled : 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.

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

- In case of skin contact : 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.
- If swallowed : 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 : Signs and symptoms of exposure to this material through breathing, swallowing, and/or passage of the material through the skin may include:  
 stomach or intestinal upset (nausea, vomiting, diarrhea)  
 irritation (nose, throat, airways)  
 Cough  
 bronchitis  
 Headache  
 Shortness of breath  
 confusion  
 seizures  
 Convulsions  
 Difficulty in breathing  
 Causes skin irritation.  
 May cause an allergic skin reaction.  
 Causes serious eye irritation.  
 May cause allergy or asthma symptoms or breathing difficulties if inhaled.  
 Suspected of damaging fertility or the unborn child.
- Notes to physician : No hazards which require special first aid measures.

**SECTION 5. FIREFIGHTING MEASURES**

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
 Water spray  
 Foam  
 Carbon dioxide (CO2)  
 Dry chemical

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

Version: 1.9

- Unsuitable extinguishing media : High volume water jet
- Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.  
Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Carbon dioxide (CO<sub>2</sub>)  
Carbon monoxide  
Nitrogen oxides (NO<sub>x</sub>)  
Hydrogen chloride gas  
Hydrocarbons
- Specific extinguishing methods :  
  
Product is compatible with standard fire-fighting agents.
- Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

**SECTION 6. ACCIDENTAL RELEASE MEASURES**

- Personal precautions, protective equipment and emergency procedures : Use personal protective equipment.  
Ensure adequate ventilation.  
Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
- 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.

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

**SECTION 7. HANDLING AND STORAGE**

- Advice on safe handling : Avoid formation of aerosol.  
 Provide sufficient air exchange and/or exhaust in work rooms.  
 Do not breathe vapours/dust.  
 Do not smoke.  
 Combination of nitrites or oxides of nitrogen with secondary or tertiary amines can form nitrosamines which are potential carcinogens.  
 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.  
 Container hazardous when empty.  
 Avoid exposure - obtain special instructions before use.  
 Avoid contact with skin and eyes.  
 Smoking, eating and drinking should be prohibited in the application area.  
 For personal protection see section 8.  
 Dispose of rinse water in accordance with local and national regulations.
- Conditions for safe storage : Keep container tightly closed in a dry and well-ventilated place.  
 Observe label precautions.

**SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Components with workplace control parameters**

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
SILICA COLLOIDAL AMORPHOUS	112945-52-5	TWA	20 Million particles per cubic foot Dust (Silica)	OSHA Z-3
		TWA	80 mg/m3 / %SiO2 Dust (Silica)	OSHA Z-3

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

		TWA	6 mg/m3 (Silica)	NIOSH REL
		PEL	6 mg/m3	CAL PEL
PIPERAZINE	110-85-0	TWA	0.03 ppm Inhalable fraction and vapor (piperazine)	ACGIH

**Hazardous components without workplace control parameters**

Components	CAS-No.
ETHYLENEDIAMINE, ETHOXYLATED AND PROPOXYLATED	26316-40-5

**Engineering measures** : Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

**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 : Wear chemical splash goggles when there is the potential for exposure of the eyes to liquid, vapor or mist.

Skin and body protection : Wear as appropriate:  
 Impervious clothing  
 Safety shoes  
 Choose body protection according to the amount and concentration of the dangerous substance at the work place.  
 Discard gloves that show tears, pinholes, or signs of wear.  
 Wear resistant gloves (consult your safety equipment)

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

supplier).

Hygiene measures : Wash hands before breaks and at the end of workday.  
 When using do not eat or drink.  
 When using do not smoke.

**SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance : liquid

Physical state : liquid

Colour : light green

Odour : slight

Odour Threshold : Not applicable

pH : No data available

Melting point/freezing point : not determined

Boiling point/boiling range : not determined

Flash point : > 93.4 °C  
 Method: Seta closed cup

Evaporation rate : 1  
 Ethyl Ether = 1

Flammability (liquids) : not determined

Upper explosion limit : Upper explosion limit  
 not determined

Lower explosion limit : Lower explosion limit  
 not determined

Vapour pressure : not determined

Relative vapour density : > 1(Air = 1.0)

Relative density : 1.08 (77.00 °F)

Density : 1.08 g/cm<sup>3</sup> (77.00 °F)



**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

Solubility(ies)  
 Water solubility : not determined

Solubility in other solvents : No data available

Partition coefficient: n-  
 octanol/water : not determined

Thermal decomposition : No data available

Viscosity  
 Viscosity, dynamic : not determined

Viscosity, kinematic : not determined

Oxidizing properties : Not applicable

**SECTION 10. STABILITY AND REACTIVITY**

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : Stable under recommended storage conditions.

Possibility of hazardous  
 reactions : Product will not undergo hazardous polymerization.

Incompatible materials : Acids  
 Aldehydes  
 chlorinated hydrocarbons  
 Copper  
 Copper alloys  
 Strong oxidizing agents

Hazardous decomposition  
 products : Hydrogen chloride gas  
 Nitrogen oxides (NOx)

**SECTION 11. TOXICOLOGICAL INFORMATION**

Information on likely routes of  
 exposure : Inhalation  
 Skin contact  
 Eye Contact  
 Ingestion

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

**Acute toxicity**

Not classified based on available information.

**Components:****ETHYLENEDIAMINE, ETHOXYLATED AND PROPOXYLATED:**

Acute oral toxicity : LD50 (Rat): 3 - 5 g/kg

Acute dermal toxicity : LD50 (Rabbit): &gt; 2,000 mg/kg

**SILICA COLLOIDAL AMORPHOUS:**

Acute oral toxicity : LD50 (Rat): &gt; 5,000 mg/kg

Acute dermal toxicity : LD50 (Rabbit): > 2,000 mg/kg  
 Assessment: Not classified as acutely toxic by dermal  
 absorption under GHS.

**PIPERAZINE:**

Acute oral toxicity : LD50 (Rat): ca. 2,600 mg/kg  
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC0 (Rat, male and female): 1.61 mg/l  
 Exposure time: 8 h  
 Test atmosphere: vapour

**Skin corrosion/irritation**

Causes skin irritation.

**Product:**

Result: Irritating to skin.

Remarks: May cause skin irritation and/or dermatitis.

**Components:****SILICA COLLOIDAL AMORPHOUS:**

Result: No skin irritation

**PIPERAZINE:**

Result: Corrosive after 3 minutes to 1 hour of exposure

**Serious eye damage/eye irritation**

Causes serious eye irritation.

**Product:**

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

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

**Components:**

ETHYLENEDIAMINE, ETHOXYLATED AND PROPOXYLATED:

Result: Irritating to eyes.

SILICA COLLOIDAL AMORPHOUS:

Result: No eye irritation

PIPERAZINE:

Result: Corrosive

**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:**

ETHYLENEDIAMINE, ETHOXYLATED AND PROPOXYLATED:

Assessment: May cause sensitisation by skin contact.

PIPERAZINE:

Assessment: The product is a respiratory sensitiser, sub-category 1B.

Assessment: The product is a skin sensitiser, sub-category 1B.

Germ cell mutagenicity

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Suspected of damaging fertility or the unborn child.

**Components:**

PIPERAZINE:

Reproductive toxicity - : Some evidence of adverse effects on sexual function and  
 Assessment fertility, and/or on development, based on animal experiments.

**STOT - single exposure**

Not classified based on available information.

**STOT - repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Further information****Product:**

Remarks: No data available

**Carcinogenicity:****IARC**

No component of this product present at levels greater than or

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA**

No 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:**

ETHYLENEDIAMINE, ETHOXYLATED AND PROPOXYLATED:

Toxicity to fish : LC50 (Fish): > 100 mg/l  
 Exposure time: 96 h

SILICA COLLOIDAL AMORPHOUS:

Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 10,000 mg/l  
 Exposure time: 96 h  
 Method: OECD Test Guideline 203

PIPERAZINE:

Toxicity to fish : LC50 (Poecilia reticulata (guppy)): > 1,800 mg/l  
 Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 21 mg/l  
 Exposure time: 48 h  
 Method: OECD Test Guideline 202

Toxicity to algae : EC50 (Pseudokirchneriella subcapitata (green algae)): > 1,000 mg/l  
 Exposure time: 72 h  
 Method: OECD Test Guideline 201

Toxicity to daphnia and other : NOEC (Daphnia magna (Water flea)): 12.5 mg/l

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

aquatic invertebrates  
 (Chronic toxicity)

Exposure time: 21 d  
 Method: OECD Test Guideline 211

**Persistence and degradability****Components:****SILICA COLLOIDAL AMORPHOUS:**

Biodegradability : Result: The methods for determining biodegradability are not applicable to inorganic substances.

**PIPERAZINE:**

Biodegradability

: Result: Readily biodegradable.  
 Biodegradation: 70 %  
 Exposure time: 28 d  
 Method: OECD Test Guideline 301F

No data available

**Bioaccumulative potential****Components:**

No data available

**Mobility in soil****Components:**

No data available

**Other adverse effects**

No data available

**Product:**

Additional ecological information : No data available

**Components:****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.  
 Empty containers should be taken to an approved waste handling site for recycling or disposal.  
 Do not re-use empty containers.

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

**SECTION 14. TRANSPORT INFORMATION****International transport regulations****REGULATION**

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

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER**

Not dangerous goods

**INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO**

Not dangerous goods

**INTERNATIONAL MARITIME DANGEROUS GOODS**

Not dangerous goods

**TDG\_INWT\_C**

Not dangerous goods

**TDG\_RAIL\_C**

Not dangerous goods

**TDG\_ROAD\_C**

Not dangerous goods

**U.S. DOT - INLAND WATERWAYS**

Not dangerous goods

**CFR\_RAIL\_C**

Not dangerous goods



<b>SAFETY DATA SHEET</b>	Revision Date: 04/14/2020
	Print Date: 6/22/2021
	SDS Number: R0171550
Pliogrip™ 6611 ADHESIVE ™ Trademark, Ashland or its subsidiaries, registered in various countries 149153	Version: 1.9

**U.S. DOT - ROAD**

Not dangerous goods
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**\*ORM = ORM-D, CBL = COMBUSTIBLE LIQUID**

Marine pollutant	
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no
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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****EPCRA - Emergency Planning and Community Right-to-Know Act  
CERCLA Reportable Quantity**

This material does not contain any components with a CERCLA RQ.

**SARA 304 Extremely Hazardous Substances Reportable Quantity**

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  
Reproductive toxicity

**SARA 302** : This material does not contain any components with a section 302 EHS TPQ.

**SARA 313** This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

**California Prop. 65**

WARNING: This product can expose you to chemicals including Carbon black, which is/are known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

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

DSL : This product contains one or several components that are not on the Canadian DSL and have annual quantity limits.

AICS : Not in compliance with the inventory

ENCS : Not in compliance with the inventory

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

KECI	: Not in compliance with the inventory
PICCS	: Not in compliance with the inventory
IECSC	: Not in compliance with the inventory
TCSI	: Not in compliance with the inventory
TSCA	: On or in compliance with the active portion of the TSCA inventory

**Inventories**

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TCSI (Taiwan), TSCA (USA)  
 - On or in compliance with the active portion of the TSCA inventory

**SECTION 16. OTHER INFORMATION****Further information**

Revision Date: 04/14/2020

NFPA:	HMIS III:						
<p>Flammability</p> <p>Health</p> <p>Instability</p> <p>Special hazard</p>	<table border="1"> <tr> <td><b>HEALTH</b></td> <td></td> </tr> <tr> <td><b>FLAMMABILITY</b></td> <td></td> </tr> <tr> <td><b>PHYSICAL HAZARD</b></td> <td></td> </tr> </table> <p>0 = not significant, 1 =Slight,            2 = Moderate, 3 = High            4 = Extreme, * = Chronic</p>	<b>HEALTH</b>		<b>FLAMMABILITY</b>		<b>PHYSICAL HAZARD</b>	
<b>HEALTH</b>							
<b>FLAMMABILITY</b>							
<b>PHYSICAL HAZARD</b>							

**NFPA Flammable and Combustible Liquids Classification**

Combustible Liquid Class IIIB

**Full text of H-Statements**

H228	Flammable solid.
H314	Causes severe skin burns and eye damage.



**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
 in various countries  
 149153

H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361	Suspected of damaging fertility or the unborn child.

## Sources of key data used to compile the Safety Data Sheet

Ashland internal data including own and sponsored test reports

The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (1-800-325-3751).

**Full text of other abbreviations**

AICS - Australian Inventory of Chemical Substances; 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 - 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 -

**SAFETY DATA SHEET**

Revision Date: 04/14/2020

Print Date: 6/22/2021

SDS Number: R0171550

Version: 1.9

Pliogrip™ 6611 ADHESIVE  
 ™ Trademark, Ashland or its subsidiaries, registered  
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 149153

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; 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



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