according to 29 CFR 1910.1200(g)

Pur Black

Revision date: 29.05.2019

1. Identification

Product identifier

Pur Black

Recommended use of the chemical and restrictions on use

Use of the substance/mixture

Adhesives, sealants

Details of the supplier of the safety data sheet

Company name:	Todol Products
Street:	25 Washington Ave
Place:	USA Natick, MA 01760
Post-office box:	PO BOX 398
	USA Natick, MA 01760
Telephone:	1-800-252-3818
e-mail:	info@todol.com
Emergency phone number:	24/7 USA: 800-535-5053
	24/7 Global: 352-323-3500

2. Hazard(s) identification

Classification of the chemical

29 CFR Part 1910.1200

Flammable aerosols: Flam. Aerosol 1 Gases under pressure: Compressed gas Skin corrosion/irritation: Skin Irrit. 2 Serious eye damage/eye irritation: Eye Irrit. 2A Respiratory or skin sensitization: Resp. Sens. 1 Respiratory or skin sensitization: Skin Sens. 1 Carcinogenicity: Carc. 2 Specific target organ toxicity single exposure: STOT SE 3 (respiratory tract irritation) Specific target organ toxicity repeated or prolonged exposure: STOT RE 2

Label elements

29 CFR Part 1910.1200

Signal word:





Hazard statements

Extremely flammable aerosol Contains gas under pressure; may explode if heated 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
- Suspected of causing cancer

May cause damage to organs through prolonged or repeated exposure

Precautionary statements

If medical advice is needed, have product container or label at hand.

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Keep out of reach of children. Read label before use.

Keep away from heat/sparks/open flames/hot surfaces. - No smoking.

Do not spray on an open flame or other ignition source.

Pressurized container: Do not pierce or burn, even after use.

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash hands 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/protective clothing/eye protection/face protection.

Wear respiratory protection.

If on skin: Wash with plenty of water.

Take off contaminated clothing and wash it before reuse.

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.

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

Store locked up.

Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.

Dispose of contents/container to an appropriate recycling or disposal facility.

Hazards not otherwise classified

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

Persons already sensitised to diisocyanates may develop allergic reactions when using this product. Persons suffering from asthma, eczema or skin problems should avoid contact, including dermal contact, with this product. This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

3. Composition/information on ingredients

Mixtures

Hazardous components

CAS No	Components	
9016-87-9	Diphenylmethanediisocyanate, isomers and homologues	
13674-84-5	84-5 Tris (2-Chloroisopropyl) Phosphate	
86675-46-9	Halogenated Polyether polyole	< 2 %

4. First-aid measures

Description of first aid measures

General information

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

After inhalation

Provide fresh air.

After contact with skin

After contact with skin, wash immediately with plenty of water and soap.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

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After ingestion

Do NOT induce vomiting. Call a physician immediately.

Most important symptoms and effects, both acute and delayed

May cause sensitization by inhalation and skin contact. Danger of sticking eyes and skin due to curing foam.

Indication of any immediate medical attention and special treatment needed

First Aid, decontamination, treatment of symptoms.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Carbon dioxide (CO2), Foam, Extinguishing powder

Unsuitable extinguishing media

Full water jet

Specific hazards arising from the chemical

In case of fire may be liberated: Nitrogen oxides (NOx), Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon dioxide (CO2), Carbon monoxide. Vapors may form explosive mixtures with air.

Special protective equipment and precautions for fire-fighters

In case of fire and/or explosion do not breathe fumes. Wear a self-contained breathing apparatus and chemical protective clothing.

Additional information

Use water spray/stream to protect personnel and to cool endangered containers. Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Provide adequate ventilation. Remove all sources of ignition.

Avoid contact with skin, eyes and clothes. Do not breathe vapor or spray.

Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

Methods and material for containment and cleaning up

Provide adequate ventilation. Allow stiffening. Take up mechanically.

Reference to other sections

Safe handling: see section 7 Personal protection equipment (PPE): see section 8 Disposal: see section 13

7. Handling and storage

Precautions for safe handling

Advice on safe handling

Provide adequate ventilation as well as local exhaustion at critical locations. Do not use in enclosed rooms.

Advice on protection against fire and explosion

Pressurised container: May burst if heated. Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F. Do not spray on an open flame or other ignition source. Do not pierce or burn, even after use. Vapors may form explosive mixtures with air. Take precautionary measures against static discharges.

Conditions for safe storage, including any incompatibilities

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Requirements for storage rooms and vessels

Keep in a cool, well-ventilated place.

Hints on joint storage

Do not store together with: Oxidising agent

Further information on storage conditions

15 - 23 °C. Storage above 23 °C will reduce shelf life significantly, depending on temperature and duration.

8. Exposure controls/personal protection

Control parameters

Exposure limits

CAS No.	Substance	ppm	mg/m³	f/cc	Category	Origin
75-28-5	Isobutane	800	1900		TWA (8 h)	REL
74-98-6	Propane	1000	1800		TWA (8 h)	PEL
		1000	1800		TWA (8 h)	REL

Exposure controls





Appropriate engineering controls

Personal protective equipment has to be chosen in accordance with workplace specific conditions, e. g. concentration of the product. Chemical resistance has to be clarified with the supplier of protective equipment.

Protective and hygiene measures

Wash hands before breaks and after work. When using do not eat, drink, smoke, sniff. Remove contaminated, saturated clothing immediately.

Eye/face protection

Wear eye/face protection.

Hand protection

Suitable material: Butyl caoutchouc (butyl rubber)

Thickness of the glove material 0,4 mm

Breakthrough time (maximum wearing time) > 480 min.

The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances.

Skin protection

Wear anti-static footwear and clothing

Respiratory protection

Respiratory protection necessary at: Particle filter device (DIN EN 143).

Environmental exposure controls

See section 7. No additional measures necessary.

9. Physical and chemical properties

Information on basic physical and chemical properties

Physical state: Color:

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Odor:	characteristic			
pH-Value:	not applicable			
Changes in the physical state				
Melting point/freezing point:	not applicable			
Initial boiling point and boiling range:	not applicable			
Flash point:	not applicable			
Flammability				
Solid:	not applicable			
Gas:	not applicable			
Explosive properties In use, may form flammable/explosi	ve vapor-air mixture.			
Lower explosion limits:	1,5 vol. %			
Upper explosion limits:	26,2 vol. %			
Ignition temperature:	> 230 °C			
Auto-ignition temperature				
Solid: Gas:	not applicable not applicable			
Decomposition temperature:	not determined			
Oxidizing properties	not determined			
Not oxidising.				
Vapor pressure:	5500 - 6000 hPa			
Density:	not determined			
Water solubility:	practically insoluble			
Solubility in other solvents not determined				
Partition coefficient:	not determined			
Viscosity / dynamic:	not applicable			
Viscosity / kinematic:	not applicable			
Vapor density:	not determined			
Evaporation rate:	not determined			
Other information				
none/none				
10. Stability and reactivity				
Reactivity There are no data available on the r	mixtura itself			
Chemical stability				
Stability:	Stable			
The product is stable under storage at normal ambient temperatures.				

Possibility of hazardous reactions

Hazardous reactions: May occur

Oxidising agent, strong. In use, may form flammable/explosive vapor-air mixture.

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Conditions to avoid

Do not expose to temperatures above 50 °C. Heating causes rise in pressure with risk of bursting.

Incompatible materials

Exothermic reaction with: Oxidising agent, strong.

Hazardous decomposition products

Nitrogen oxides (NOx), Hydrogen chloride (HCl), Hydrogen cyanide (hydrocyanic acid), Carbon dioxide (CO2), Carbon monoxide

11. Toxicological information

Information on toxicological effects

Toxicocinetics, metabolism and distribution

There are no data available on the mixture itself.

Acute toxicity

Based on available data, the classification criteria are not met.

CAS No	Components						
	Exposure route	Dose		Species	Source	Method	
9016-87-9	Diphenylmethanediisocy	Diphenylmethanediisocyanate, isomers and homologues					
	oral	LD50 mg/kg	>10000	Rat			
	dermal	LD50 mg/kg	> 10000	Rabbit			
	inhalation vapour	ATE	11 mg/l				
	inhalation aerosol	ATE	1,5 mg/l				
13674-84-5	Tris (2-Chloroisopropyl) Phosphate						
	oral	LD50 2000 mg/kg	630 -	Rat	Manufacturer		
	dermal	LD50 mg/kg	> 5000	Rabbit	Manufacturer	OECD 402	
86675-46-9	Halogenated Polyether polyole						
	oral	LD50 mg/kg	917	Rat			

Irritation and corrosivity

Causes skin irritation

Causes serious eye irritation

Sensitizing effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled (Diphenylmethanediisocyanate, isomers and homologues)

May cause an allergic skin reaction (Diphenylmethanediisocyanate, isomers and homologues) Does not apply to the cured foam.

Carcinogenic/mutagenic/toxic effects for reproduction

Suspected of causing cancer (Diphenylmethanediisocyanate, isomers and homologues) Germ cell mutagenicity: Based on available data, the classification criteria are not met. Reproductive toxicity: Based on available data, the classification criteria are not met.

Specific target organ toxicity (STOT) - single exposure

May cause respiratory irritation (Diphenylmethanediisocyanate, isomers and homologues)

Specific target organ toxicity (STOT) - repeated exposure

May cause damage to organs through prolonged or repeated exposure (Diphenylmethanediisocyanate, isomers and homologues)

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Carcinogenicity (OSHA):	No ingredient of this mixture is listed.	
Carcinogenicity (IARC):	Polymethylene polyphenyl isocyanate (CAS 9016-87-9) is listed in group 3.	
Carcinogenicity (NTP):	No ingredient of this mixture is listed.	
Aspiration hazard Based on available data, the o	classification criteria are not met.	
12. Ecological information		
Ecotoxicity		
There are no data available o	n the mixture itself.	
Persistence and degradability		
There are no data available o	n the mixture itself.	
Bioaccumulative potential		
There are no data available o	n the mixture itself.	
Mobility in soil		
There are no data available o	n the mixture itself.	
Other adverse effects		
none/none		
13. Disposal considerations		
Waste treatment methods		
Advice on disposal		
Dispose of waste according to	o applicable legislation.	
14. Transport information		
US DOT 49 CFR 172.101		
UN/ID number:	UN 1950	
Proper shipping name:	Aerosols, flammable, (each not exceeding 1 L capacity)	
Transport hazard class(es):	2.1	
Packing group:	-	
Hazard label:	2.1	
Marine transport (IMDG)		
UN number:	UN 1950	
UN proper shipping name:	AEROSOLS	
Transport hazard class(es):	2.1	
Packing group:	-	
Hazard label:	2.1	
	2	
Marine pollutant:	-	
Limited quantity: Excepted quantity:	1000 mL E0	
Excepted quantity. EmS:	F-D, S-U	
Air transport (ICAO-TI/IATA-DGR)		
UN number:	UN 1950	
UN proper shipping name:	AEROSOLS	
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Transport hazard class(es):	2.1	
Packing group:	-	
Hazard label:	2.1	
Limited quantity Passenger: Passenger LQ: Excepted quantity:	30 kg G Y203 E0	
IATA-packing instructions - Passenger:	203	
IATA-max. quantity - Passenger:	75 kg	
IATA-packing instructions - Cargo:	203	
IATA-max. quantity - Cargo:	150 kg	
ENVIRONMENTALLY HAZARDOUS:	no	
Special precautions for user see chapter 6 - 8		
Transport in bulk according to Annex II of I	MARPOL 73/78 and the IBC Code	
not relevant		
15. Regulatory information U.S. Regulations		
National regulatory information		
SARA Section 311/312 Hazards:		
	yanate (9016-87-9): Delayed (chronic) health hazard, Immediate (acute)	
health hazard		
Iris (2-Chioroisopropyi) Phosphat Isobutane (75-28-5): Fire hazard	e (13674-84-5): Immediate (acute) health hazard	
Propane (74-98-6): Fire hazard		
	6675-46-9): Immediate (acute) health hazard	
SARA Section 313 Toxic release inve Polymeric diphenylmethane diisoc	ntory: yanate (9016-87-9): De minimis limit = 1.0 %, Reportable threshold =	
Standard		
Clean Air Act Section 112(r): Isobutane (75-28-5): Threshold gu	antities = 10,000 lbs.	
Propane (74-98-6): Threshold qua		
SARA		
Section 313 Toxic Release Chemicals Polymeric diphenylmethane diisocya		
State Regulations		
-	nent Act of 1986 (Proposition 65, State of California)	
other reproductive harm.	nemicals known to the State of California to cause cancer, birth defects or	
Additional information		
CAS No. 86675-46-9 registered in TS	CA as CAS No. 68441-62-3.	
16. Other information		
Hazardous Materials Information Label	(HMIS)	

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Flammability:	3	
Physical Hazard:	0	
Personal Protection:	Х	
NFPA Hazard Ratings		
Health:	3	3
Flammability:	3	
Reactivity:	0	$\mathbf{\overline{\mathbf{v}}}$
Unique Hazard:		\sim
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Revision No:	9,04	
Other data		

Other data

Data sources: Data arise from reference works and literature.

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)