



SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: SILCOLEASE PSA 401

Synonyms, Trade Names: SILCOLEASE PSA 401

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

Identified uses: Manufacture of adhesive tape.

Uses advised against: None known.

Details of the supplier of the safety data sheet:**Manufacturer:**

BLUESTAR SILICONES Usines Rhône-Alpes
1-55 rue des Frères PERRET
F-69 192 SAINT FONS Cedex

Telephone: +33 (0) 4 72 73 74 75

Fax: +33 (0) 4 72 73 75 99

e-mail: fds.sil@bluestarsilicones.com

Supplier:

BLUESTAR SILICONES France S.A.S
21, avenue Georges Pompidou
F-69 003 LYON

Telephone: +33 (0) 4 72 13 19 00

Fax: +33 (0) 4 72 13 19 88

Emergency telephone number: +33 (0) 1 45 42 59 59

SECTION 2: Hazards identification

Classification of the substance or mixture:

The product has been classified according to the legislation in force.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended:

F; R11 Xi; R38 Xn; R48/20 R63 R67

Hazard summary:

Physical hazards: Highly Flammable

Health hazards:

Inhalation: Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Eye contact: No specific symptoms noted.

Skin contact: Irritant.

Ingestion: No data available.

Other Health Effects: No other information noted.

Environmental hazards: Not regarded as dangerous for the environment.

Label elements:**Contains:** toluene

Highly Flammable



Harmful

R11	Highly flammable.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R63	Possible risk of harm to the unborn child.
R67	Vapours may cause drowsiness and dizziness.
S9	Keep container in a well-ventilated place.
S16	Keep away from sources of ignition - No smoking.
S23	Do not breathe vapor.
S36/37	Wear suitable protective clothing and gloves.
S38	In case of insufficient ventilation, wear suitable respiratory equipment.
S62	If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Other hazards: No data available.**SECTION 3: Composition/information on ingredients****Mixtures:****General information:** Mixture of Polyorganosiloxanes.

Chemical name	Concentration	CAS-No.	EC No.	REACH Registration No.	Notes
toluene	<50%	108-88-3	203-625-9		#

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

This substance has workplace exposure limit(s).

PBT: persistent, bioaccumulative and toxic substance.

vPvB: very persistent and very bioaccumulative substance.

Classification:

Chemical name	Classification		Notes
toluene	DPD:	F; R11 Repr. 3; R63 Xi; R38 Xn; R48/20, R65 R67	
	CLP:	Flam. Liq. 2;H225, Repr. 2;H361d, STOT RE 2;H373, Asp. Tox. 1;H304, Skin Irrit. 2;H315, STOT SE 3;H336	

DPD: Directive 67/548/EEC.

CLP: Regulation No. 1272/2008.:

The full text for all R/H-phrases is displayed in section 16.

SECTION 4: First aid measures**General:** Get medical attention if symptoms occur. Contaminated clothing to be placed in closed container until disposal or decontamination.**Description of first aid measures:****Inhalation:** Move into fresh air and keep at rest. Get medical attention.**Eye contact:** In the event of contact with the eyes, rinse thoroughly with clean water. Continue to rinse for at least 15 minutes.

Skin contact:	Remove contaminated clothing and shoes. Wash with soap and water. Get medical attention if irritation persists after washing.
Ingestion:	Do not induce vomiting. Rinse mouth thoroughly.
Most important symptoms and effects, both acute and delayed:	No data available.
Indication of any immediate medical attention and special treatment needed:	
Hazards:	No specific recommendations.
Treatment:	No specific recommendations.

SECTION 5: Firefighting measures

General fire hazards:	No specific recommendations.
Extinguishing media:	
Suitable extinguishing media:	Extinguish with foam, carbon dioxide or dry powder.
Unsuitable extinguishing media:	Do not use water jet as an extinguisher, as this will spread the fire.
Special hazards arising from the substance or mixture:	Highly flammable.
Advice for firefighters:	
Special Fire Fighting Procedures:	Water spray should be used to cool containers.
Special protective equipment for fire-fighters:	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

SECTION 6: Accidental release measures

Personal precautions, protective equipment and emergency procedures:	Do not breathe vapor. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.
Environmental precautions:	Collect spillage. Do not discharge into drains, water courses or onto the ground.
Methods and material for containment and cleaning up:	Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Container must be kept tightly closed. Use explosion-proof electrical/ventilating/lighting/.../ equipment. Absorb with sand or other inert absorbent. To clean the floor and all objects contaminated by this material, use an appropriate solvent.(cf. : § 9) Flush area with plenty of water. Incinerate in suitable combustion chamber.
Notification Procedures:	Caution: Contaminated surfaces may be slippery. For waste disposal, see section 13 of the MSDS.

SECTION 7: Handling and storage:

Precautions for safe handling:	Use explosion-proof electrical/ventilating/lighting/.../ equipment. Ground container and transfer equipment to eliminate static electric sparks. Keep away from heat, sparks and open flame. Nitrogen blanketing of containers is required. Avoid forming spray/aerosol mists. Adequate ventilation should be provided so that exposure limits are not exceeded.
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Conditions for safe storage, including any incompatibilities:

Avoid discharge into drains, water courses or onto the ground. Store in a cool, dry place with adequate ventilation. Keep away from incompatible materials, open flames, and high temperatures. Store in tightly closed original container. Material should be stored under an inert atmosphere. Avoid contact with oxidizing agents. For further information, refer to section 10: "Stability and Reactivity". Suitable containers: Steel drums coated with epoxy-resin.

Specific end use(s):

No data available.

SECTION 8: Exposure controls/personal protection**Control parameters:****Occupational exposure limits:**

Chemical name	Type	Exposure Limit values	Source
toluene	NPK-P	500 mg/m ³	Czech Republic. OELs. Government Decree 361 (12 2007)
	PEL	200 mg/m ³	Czech Republic. OELs. Government Decree 361 (12 2007)
	STEL	100 ppm 384 mg/m ³	EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents. (12 2009)
	TWA	50 ppm 192 mg/m ³	EU. Indicative Exposure and Directives relating to the protection of risks related to work exposure to chemical, physical, and biological agents. (12 2009)

Exposure controls:**Appropriate engineering controls:**

Provide adequate ventilation. Observe Occupational Exposure Limits and minimize the risk of inhalation of vapors. Use engineering controls to reduce air contamination to permissible exposure level. Get medical advice/attention.

Individual protection measures, such as personal protective equipment:**General information:**

Provide sufficient ventilation during operations which cause vapor formation.

Eye/face protection:

Wear safety glasses with side shields (or goggles).

Skin protection:**Hand protection:**

Rubber gloves are recommended.

Other:

Wear appropriate clothing to prevent any possibility of skin contact.

Respiratory Protection:

If ventilation is insufficient, suitable respiratory protection must be provided. Self-contained breathing apparatus.

Hygiene measures:

Provide eyewash station and safety shower.

Environmental Controls:

No data available.

SECTION 9: Physical and chemical properties**Information on basic physical and chemical properties:****Appearance:****Physical State:**

Liquid

Form:

Viscous.

Color:

Colourless to pale yellow.

Odor:

Aromatic

Odor Threshold:	No data available.
pH:	Not applicable
Freezing point:	No data available.
Boiling Point:	110 °C Approximate
Flash Point:	6 °C (Closed cup according to method Afnor T 60103.) Toluene.
Evaporation Rate:	No data available.
Flammability (solid, gas):	No data available.
Flammability Limit - Upper (%)—:	7 %(V) Toluene.
Flammability Limit - Lower (%)—:	1,2 %(V) Toluene.
Vapor pressure:	30 hPa (20 °C) Toluene.
Vapor density (air=1):	1,065
Relative density:	1,010 (20 °C)
Solubility(ies):	
Solubility in Water:	Slightly Soluble
Solubility (other):	Acetone.: Practically Insoluble Ethanol.: Practically Insoluble Aliphatic hydrocarbons.: Miscible (in all proportions). Aromatic hydrocarbons.: Miscible (in all proportions). Chlorinated solvents.: Miscible (in all proportions).
Partition coefficient (n-octanol/water):	No data available.
Autoignition Temperature:	552 °C Toluene.
Decomposition Temperature:	No data available.
Viscosity:	No data available.
Explosive properties:	No data available.
Oxidizing properties:	According to the data on the components Not considered as oxidizing. (evaluation by structure-activity relationship)

SECTION 10: Stability and reactivity

Reactivity:	Not relevant.
Chemical stability:	Stable
Possibility of hazardous reactions:	Not known.
Conditions to avoid:	No other information noted.
Incompatible materials:	Strong oxidizing agents. Strong acids. Halogenated materials.
Hazardous decomposition products:	Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. Amorphous silica.

SECTION 11: Toxicological information

Information on likely routes of exposure

Inhalation:	No data available.
Ingestion:	No data available.
Skin contact:	No data available.
Eye contact:	No data available.

Information on toxicological effects:

Acute Toxicity:**Oral:****Product:** No data available.**Specified substance(s):**
toluene No data available.**Dermal:****Product:** No data available.**Specified substance(s):**
toluene No data available.**Inhalation:****Product:** No data available.**Specified substance(s):**
toluene LC 50 (Rat, 4 h): < 20 mg/l**Repeated dose toxicity:****Product:** No data available.**Specified substance(s):**
toluene No data available.**Skin corrosion/irritation:****Product:** No data available.**Specified substance(s):**
toluene No data available.**Serious eye damage/eye irritation:****Product:** No data available.**Specified substance(s):**
toluene No data available.**Respiratory or skin sensitization:****Product:** No data available.**Specified substance(s):**
toluene Not a skin sensitizer.**Germ cell mutagenicity:****In vitro:****Product:** No data available.**Specified substance(s):**
toluene No mutagenic components identified**In vivo:****Product:** No data available.**Specified substance(s):**
toluene No mutagenic components identified**Carcinogenicity:****Product:** No data available.**Specified substance(s):**
toluene Not classified**Reproductive toxicity:****Product:** No data available.

Specified substance(s):

toluene

Suspected of damaging the unborn child.

Specific target organ toxicity - single exposure:**Product:**

No data available.

Specified substance(s):

toluene

No data available.

Specific target organ toxicity - repeated exposure:**Product:**

No data available.

Specified substance(s):

toluene

No data available.

Aspiration hazard:**Product:**

No data available.

Specified substance(s):

toluene

No data available.

Other adverse effects:**SECTION 12: Ecological information****Toxicity:****Acute toxicity:****Fish:****Product:**

No data available.

Specified substance(s):

toluene

LC 50 (Fish, 96 h): 5,5 mg/l

Aquatic invertebrates:**Product:**

No data available.

Specified substance(s):

toluene

EC50 (Water flea (Daphnia magna), 48 h): 3,78 mg/l

Chronic Toxicity:**Fish:****Product:**

No data available.

Specified substance(s):

toluene

No data available.

Aquatic invertebrates:**Product:**

No data available.

Specified substance(s):

toluene

NOEL (Water flea (Daphnia magna), 7 d): 0,74 mg/l

Toxicity to Aquatic Plants:**Product:**

No data available.

Specified substance(s):

toluene

IC50 (Alga, 72 h): 10 mg/l

Persistence and degradability:**Biodegradation:****Product:**

No data available.

Specified substance(s):

toluene

The product is easily biodegradable.

BOD/COD ratio:**Product:**

No data available.

Specified substance(s):

toluene

No data available.

Bioaccumulative potential:**Product:**

No data available.

Specified substance(s):

toluene

Bioconcentration factor (BCF): 90 Potential to bioaccumulate is low.

Mobility in soil:

No data available.

Known or predicted distribution to environmental compartments:

toluene

No data available.

Results of PBT and vPvB assessment:

toluene

No data available.

No data available.

Other adverse effects:

No data available.

SECTION 13: Disposal considerations**Waste treatment methods:****General information:**

The user's attention is drawn to the possible existence of local regulations regarding disposal.

Disposal Methods:

Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Incinerate.

Contaminated packages should be as empty as possible. Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. Recycle following cleaning or dispose of at an authorised site.

European Waste Codes:**Unused product:**

Data available upon request.

SECTION 14: Transport information**ADR/RID**

UN number:	1133
UN proper shipping name:	ADHESIVES
Transport hazard class(es):	3
Tunnel restriction code:	(D/E)
Packing group:	II
Label(s):	3
Hazard No. (ADR)	33

IMDG

UN number: 1133
UN proper shipping name: ADHESIVES
Transport hazard class(es): 3
Subsidiary risk label:
Packing group: II
Label(s):
Marine Pollutant:
EmS No.: F-E,S-D

IATA

UN number: 1133
Proper Shipping Name: ADHESIVES
Transport hazard class(es): 3
Subsidiary risk label:
Packing group: II
Label(s): 3

Environmental hazards: No Marine Pollutant

Special precautions for user: No special precautions.

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code: Not applicable.

SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture:

National Regulations:

Chemical safety assessment: No data available.

SECTION 16: Other information

Revision Information: Not relevant.

Key literature references and sources for data: No data available.

Wording of the R-phrases and H-statements in section 2 and 3:

H225	Highly flammable liquid and vapor.
H226	Flammable liquid and vapor.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361f	Suspected of damaging fertility.
H373	May cause damage to organs through prolonged or repeated exposure.
H413	May cause long lasting harmful effects to aquatic life.
R11	Highly flammable.
R38	Irritating to skin.
R48/20	Harmful: danger of serious damage to health by prolonged exposure through inhalation.
R53	May cause long-term adverse effects in the aquatic environment.
R62	Possible risk of impaired fertility.
R63	Possible risk of harm to the unborn child.
R65	Harmful: may cause lung damage if swallowed.
R67	Vapours may cause drowsiness and dizziness.

Training information: No data available.

Inventory Status

Australia AICS:	On or in compliance with the inventory
Canada DSL Inventory List:	On or in compliance with the inventory
EU EINECS List:	On or in compliance with the inventory
Japan (ENCS) List:	Not in compliance with the inventory.
China Inv. Existing Chemical Substances:	On or in compliance with the inventory
Korea Existing Chemicals Inv. (KECI):	On or in compliance with the inventory
Philippines PICCS:	On or in compliance with the inventory
US TSCA Inventory:	On or in compliance with the inventory
New Zealand Inventory of Chemicals:	On or in compliance with the inventory
Japan ISHL Listing:	Not in compliance with the inventory.

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SDS No:

Disclaimer: The information given is based on data available for the material, the components of the material, and similar materials. The information is believed to be correct. It is given in good faith. This information should be used to make an independent determination of the methods to safeguard workers and the environment.