Polyester Stopper, Spray putty
25.01.2016 Version No. 2

SAFETY DATA SHEET

1 Identification of chemical product and information on the manufacturer and/or supplier

1.1 Product Name: **Polyester Stopper, Spray putty**

Manufacturer / supplier: **ECOPOL LLC.**
35, Suvorova str., Dzerzhinsk, Nizhny Novgorod region, 606010, Russia
Telephone: (8313) 230351; 230839; 230781; 230746
Tel./fax: (8313) 254103; 274016

1.2 Relevant identified uses of the substance or mixture and recommended the use of
The product is intended only for industrial or professional use.

1.3 Emergency phone:
In an emergency, contact the National Center for Emergency Care.

2 Hazard (hazards) identification

2.1 Classification of the substance or mixture
· **Classification according to Regulation (EC) No 1272/2008**

H226:	Flammable liquid. Vapours form explosive mixtures with air.	Highly flammable liquid. Hazard category 3
H315:	Irritant to skin.	Skin corrosion/irritation. Hazard category 2
H361d:	Potentially harmful to fecundity or unborn children.	Reproductive toxicity. Hazard Class 2
H372:	Harmful to organs (hearing organs). Reasons for damage to organs through prolonged or repeated exposure.	Specific target organ toxicity. Hazard category 1. (Inhalation)
H319:	Discernible irritant to eyes.	Serious eye damage / eye irritation. Hazard category 2
H336:	May cause drowsiness or dizziness.	Specific target organ toxicity. Hazard category 3.

· **2.2 Label elements**
· **Labelling according to Regulation (EC) No 1272/2008**
This product is classified and labelled according to the Regulation on the classification, labelling and packaging of substances and mixtures (CLP).
· **Hazard pictograms**

GHS02 GHS07 GHS08
· **Signal word** *Danger*
· **Hazard-determining components of labelling:**
Styrene

· **Hazard statements**
H226: Flammable liquid. Vapours form explosive mixtures with air
H315: Causes skin irritation.
H319: Discernible irritant to eyes.
H336: May cause drowsiness or dizziness.
H361d: Potentially harmful to fecundity or unborn children.
H372: Causes damage to organs (hearing organs). Reasons for damage to organs through prolonged or repeated exposure.

· **Precautionary statements**
- P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking;
- P261: Avoid breathing dust/fumes/gas/mist/vapours/spray.
- P271: Use only outdoors or in a well-ventilated area.
- P280: Wear protective gloves/protective clothing/eye protection/face protection (type to be indicated by manufacturer/supplier)
- P312: Get medical advice if you feel unwell.

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- P273: Avoid release to the environment.
- P102: Store out of children's reach.

· ***2.3 Other hazards***
No information available.

3 Composition (information on ingredients)

· ***3.2 Chemical characterization: Mixtures***
· ***Description:*** *Mixture of substances listed below with nonhazardous additives.*
· ***Contained hazardous substances:***

Chemical name	***H-statements***		***Pictograms, signal word (codes)***
Ethenyl benzene (styrene) *Concentration, % (by weight) 10-30* *CAS No. 100-42-5* *EINECS No. 202-851-5* *Index Number 601-026-00-0* *REACH № 01-2119457861-32-XXXX*	*Flam. Liq. 3* *Skin Irrit. 2* *Eye Irrit. 2* *Acute Tox. 4 ** *Repr. 2* *STOT RE 1 (hearing organs)*	*H226* *H315* *H319* *H332* *H361d* *H372*	 *GHS02*  *GHS07*  *GHS08* *Dgr*
Ethyl acetate *Concentration, % (by weight) 1-10* *CAS No. 141-78-6* *EINECS No. 205-500-4* *Index Number 607-022-00-5* *REACH No. 01-2119475103-46 - XXXX*	*Flam. Liq. 2* *Eye Irrit. 2* *STOT SE 3*	*H225* *H319* *H336*	 *GHS02*  *GHS07* *Dgr*

4 First aid measures

· ***4.1 Description of first aid measures***
· ***General advice:***
Immediately remove any clothing contaminated by this product.
Symptoms of poisoning may even occur after several hours; therefore
medical observation for at least 48 hours after the emergency (accident).
· ***After inhalation:***
Supply fresh air or oxygen; call for doctor.
In case of unconsciousness bring patient into stable side position for transport.
· ***After skin contact:***
Immediately wash with water and soap and rinse thoroughly.
Seek medical help.
· ***After eye contact:***
Rinse opened eye for several minutes under running water; then consult doctor.
Remove contact lenses if any, continue rinsing.
· ***After swallowing:***
Rinse mouth and drink plenty of water. DO NOT induce vomiting. Get medical attention.
· ***4.2 Most important symptoms and effects, both acute and delayed***
No further relevant information available.
· ***4.3 Indication of any immediate medical attention and special treatment needed***
Symptomatic treatment

5 Fire-fighting measures

· ***5.1 Extinguishing media***
· ***Suitable extinguishing agents:***

CO_2, extinguishing powder or water spray jet.
Fight larger fires with water spray jet or alcohol resistant foam.
· ***For safety reasons unsuitable extinguishing agents:***
Full water jet
· ***5.2 Special hazards arising from the substance or mixture***
The following substances can released in case of fire:
Carbon monoxide (CO) and carbon dioxide (CO_2)

· ***5.3 Advice for firefighters***
· ***Protective equipment:*** *Wear self-contained respiratory protective device.*
· ***Additional information***
Cool endangered containers with water spray jet.
Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

6 Accidental release measures

· ***6.1 Personal precautions, protective equipment and emergency procedures***
Wear protective clothing. Keep unprotected people away.
Provide for sufficient ventilation.
Keep away from ignition sources.
Use respiratory protective device against the effects of fumes/dust/aerosol.
Avoid contact with eyes and skin.
· ***6.2 Environmental precautions:***
Do not allow to enter sewers / surface or ground water / holes and cellars.
Inform respective authorities in case of seepage into water course or sewage system.
· ***6.3 Methods and materials for containment and cleaning up:***
Provide for sufficient ventilation.
Absorb with liquid-binding wet material (sand, diatomite, chemical binder based on calcium silicate, universal binders, sawdust).
Send for recovery or disposal in suitable containers.
Dispose contaminated material as waste according to guidelines.
· ***6.4 Reference to other sections***
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

7 Handling and storage of chemicals.

· ***7.1 Precautions for safe handling***
Ensure good ventilation/exhaustion at the workplace.
Ensure good interior ventilation, especially at floor level (fumes are heavier than air).
Limit the amount of stocks at the workplace.
Use only in well ventilated areas.
Avoid contact with eyes and skin.
Do not breathe smoke / spray.
Ensure the check of the total used area of the production premise.
· ***Information about fire and explosion protection:***
Fumes can combine with air to form an explosive mixture.
Flammable gas and air mixtures may be formed in empty containers.
Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
Take precautionary measures against static discharge.
Apply explosion-proof instruments / valves and sparkless tools.
· ***7.2 Conditions for safe storage, including any incompatibilities***
· ***Storage:***
· ***Storage requirements to be met by storerooms and containers:***
Store in a cool location.
Observe the rules for storage of flammable liquids.
Observe water protection rules.
· ***Information about storage in one common storage facility:***

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Observe the rules for storage of flammable liquids.
· ***Further information about storage conditions:***
Store receptacle in a well ventilated area.
Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.

8 Exposure controls/personal protection

· ***8.1 Control parameters***
· ***Ingredients with limit values that require monitoring at the workplace:***
CAS No. 1330-20-7 xylene (isomer mixture) 30/10
OEL (RF) short-term maximum: 30 mg/m³
shift-average: 10 mg/m³
CAS No. 141-78-6 ethyl acetate
OEL (RF) short-term maximum: 200 mg/m³
shift-average: 50 mg/m³

DNEL values
CAS No. 100-42-5: Styrene
Area of application: workers (Inhalation)
Potential effects on health: Long-term exposure, systemic effects: 85 mg/m³
Area of application: workers (Inhalation)
Potential effects on health: Short-term exposure - systemic effects: 289 mg/m³
Potential effects on health: Short-term exposure - local effects: 306 mg/m³
Area of application: workers (Dermatitis)
Potential effects on health: Long-term exposure, systemic effects: 406 mg/kg body weight/day
Area of application: workers (Dermatitis)
Potential effects on health: Short-term exposure - systemic and local effects: no information available
CAS No. 141-78-6 ethyl acetate
Area of application: workers (Inhalation)
Potential effects on health: Long-term exposure, systemic and local effects: 734 mg/m3
Area of application: workers (Inhalation)
Potential effects on health: Short-term exposure, systemic and local effects: 1468 mg/m³
Area of application: workers (Dermatitis)
Potential effects on health: Long-term exposure, systemic effects: 63 *mg/kg bw/day*
Area of application: workers (Dermatitis)
Potential effects on health: Short-term exposure, local effects: no information available

PNEC values
CAS No. 100-42-5: Styrene
freshwater: 0.028 mg / l
marine water: 0.014 mg / l
Soil: 0.2 mg / kg of soil dry weight
CAS No. 141-78-6 ethyl acetate
freshwater: 0. 24 mg/l
marine water: 0.024 mg/l
soil 0.148 mg/kg of soil dry weight

· ***Additional information:***
The lists valid during manufacture were used as basis.
· ***8.2 Exposure controls / personal protection***
· ***Personal protective equipment:***
· ***General protective and hygienic measures:***
Keep away from foodstuffs, beverages and feed.
Do not eat, drink, smoke or sniff while working.
Immediately remove all soiled and contaminated clothing.
Do not inhale gases/fumes/sprays.
Avoid contact with eyes and with skin.
Wash hands before breaks and at the end of work.
Do not put the product-soaked rags in trouser pockets.

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· ***Respiratory protection:***
If workplaces are well-ventilated precautions are not required.
· ***Hand protection:***
Rubber gloves.
· ***Eye protection:*** *Tightly sealed safety glasses*
· ***Body protection:***
Protective work clothing
Body protection must be chosen depending on the type of activity and possible exposure.
· ***Environmental exposure controls***
Do not allow to enter sewers / surface or ground water.

9 Physical and chemical properties

· ***9.1 Information on basic physical and chemical properties***
· ***General information***

Appearance	*Liquid*
Colour	*Required*
Odour	*Of organic solvents*
pH	*Not specified*
Boiling point	*Not specified*
Flash point (Closed cup)	*Plus 30^{0}C (Ethenyl benzene)* *Minus 3 ℃ (ethyl acetate)*
Self-ignition temperature	*Plus 530^{0}C (Ethenyl benzene)* *Plus 400^{o}C (ethyl acetate))*
Density, g/cm^3	*1.6*
Viscosity (relative, sec)	*Not specified*
Lower explosion limit, % by volume	1.1 (*Ethenyl benzene)* *3.6 (ethyl acetate)*
Upper explosion limit, % by volume	*5.2 (Ethenyl benzene)* *16.8 (ethyl acetate)*
Vapour density (Pa/at 20°C)	*Not specified*
Solids content, % by weight	*Not specified*
Solubility in water	*Insoluble*

· ***9.2 Other information*** *No further relevant information available.*

10 Stability and reactivity

10.1 Chemical stability
Stable under recommended storage and handling conditions.
10.2 Chemical reactivity
None under recommended storage and handling conditions.
10.3 Conditions to avoid
Direct sunlight, high temperatures, open flames, sparks.
Contact with strong oxidizing agents, peroxides, strong acids and bases.
10.4 Hazardous decomposition products
Thermal decomposition can release carbon monoxide and other toxic gases.

11 Toxicological information

· ***11.1 Information on toxicological effects***
· ***Acute toxicity:***
· ***LD/LC50 (lethal dose/concentration) values relevant for classification:***

CAS No. 1330-20-7 xylene (isomer mixture)
Orally (by mouth) LD50 >6000 mg/kg (Syrian hamster)
Lethality: 6000 mg/kg live weight 3/23 animals died for 24 h (Syrian hamster)
No lethality: 4500 mg / kg (Syrian hamster)
Dermal (through the skin) LD50 >2000 mg/kg (rat)
Inhalation (breath) LC50/6 h. > 2.13 mg/m^3 (mice)
CAS No. 141-78-6 ethyl acetate
Oral (by mouth) LD50 10,200 mg/kg (rat)
Dermal (through the skin) LD50 > 20,000 mg/kg (rabbit)
Inhalation LC0/6 h >6000ppm (22.5 mg/l) (rat)

· ***Primary irritant effect:***
· ***on the skin:*** *Prolonged or repeated contact may defat the skin and result in dermatitis.*
· ***on the eye:*** *Irritant effect.*
· ***Subacute to chronic toxicity:*** *not classified*
· ***Additional toxicological information:***
The product shows the following hazards according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
Harmful
Irritant
Danger of skin absorption.

· ***Information on the following groups of potential effects:***
· *Sensitization No sensitizing effects known.*
· ***Repeated dose toxicity*** *not determined*
· ***Carcinogenicity, mutagenicity and toxicity for reproduction***
According to present knowledge no CMR-effects known.

12 Ecological information

· ***12.1 Toxicity***
CAS No. 100-42-5: Styrene
EC50/72 h 4.9 mg/l (Selenastrum capricornutum (new name: Pseudokirchnerella subcapitata))/growth rate / for algae
NOEC /96 h. 4.1 mg/l (amphipoda) / for aquatic invertebrates
LC0/96h 10 mg/l (Fathead Minnow)) /behavioral disorders; lethality control: 0% /for fish
CAS No. 141-78-6 ethyl acetate
EC50/48 h 5600 mg/l (Scenedesmus subspicatus (new name: Desmodesmus subspicatus)/ for algae
NOEC > 100 mg/l (Scenedesmus subspicatus (new name: Desmodesmus subspicatus)/ for algae
EC50/24 h 3090 mg/l (Daphnia magna) / for aquatic invertebrates
LC50/96 h 220 mg/l (Pimephales promelas) / for fish
· ***12.2 Persistance and degradability***
No further relevant information available.
· ***12.3 Bioaccumulative potential*** *No further relevant information available.*
· ***12.4 Mobility in soil*** *No further relevant information available.*
· ***Additional ecological information:***
· ***General notes:***
The product contains volatile organic components. Do not allow product to reach ground, water, water course or sewage system and biological treatment plants.
· ***12.5 Results of PBT and vPvB assessment***
· ***PBT:*** *No information available.*
· ***vPvB:*** *No information available.*
· ***12.6 Other adverse effects*** *No further relevant information available.*

13 Disposal considerations

· ***13.1 Waste treatment methods***
· *Recommendation:*
Disposal must be made according to official regulations.

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· European waste catalogue

Waste disposal key numbers have to be assigned depending on origin and processing.

· Uncleaned packaging:

· Recommendation:

Must not be disposed of together with household garbage. Contaminated packaging must be transported to the companies authorized to collect, recycle or dispose waste.

14 Transport information

		ADR/RID	*IMDG*	*IATA*
14.1	***UN number***	*1139*	*1139*	*1139*
14.2	***UN shipping name***		*COATING SOLUTION*	
14.3	***Transport classification***	*3*	*3*	*3*
14.4	***Packing Group***	*III*	*III*	*III*
14.5	***Environmental hazards:***	*No*	*No*	*No*
	· Marine pollutant:			

14.6 Special precautions for user

Do not transport together with materials of class 1; class 4.2; class 4.3; class 5.

Do not use open flame and no smoking

15 Regulatory information

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

· National regulations:

· Information about limitation of use:

Employment restrictions concerning juveniles must be observed.

· 15.2 Chemical safety assessment: *A Chemical Safety Assessment has not been carried out.*

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

ADR:	***European Agreement concerning the International Carriage of Dangerous Goods by Road***
RID:	***Regulations Concerning the International Transport of Dangerous Goods by Rail***
IMDG:	***International Maritime Code for Dangerous Goods***
IATA:	***International Air Transport Association***
GHS:	***Globally Harmonised System of Classification and Labelling of Chemicals***
EINECS:	***European Inventory of Existing Commercial Chemical Substances***
ELINCS:	***European List of Notified Chemical Substances***
CAS:	***Chemical Abstracts Service (division of the American Chemical Society)***
REACH:	***Registration Evaluation and Authorisation of Chemicals***
DNEL:	***Derived No-Effect Level (REACH)***
PNEC:	***Predicted No-Effect Concentration (REACH)***
NOEC:	***No observed effect concentration)***
LC50:	***Lethal concentration, 50 percent***
LD50:	***Lethal dose, 50 percent***
Flam. Liq. 3	***Flammable liquids, Hazard Category 3***
Skin Irrit. 2	***Skin corrosion/irritation, Hazard Category 2***
Eye Irrit. 2	***Serious Eye Damage / Eye Irritation Category 2***
Acute Tox. 4 *	***Acute toxicity, Hazard Category 4***
Repr. 2	***Reproductive Toxicity. Hazard Category 2***
STOT RE 1	***Specific target organ toxicity. Hazard Category 1***
Flam. Liq. 2	***Flammable liquids, Hazard Category 2***
STOT SE 3	***Specific target organ toxicity, Hazard Category 3***
GHS02	***Hazard pictogram: flame***
GHS07	***Hazard pictogram: exclamation mark***
GHS08	***Hazard pictogram: health hazard***
Dgr	***Danger***
H225:	***Highly flammable liquid and vapour. Vapours form explosive mixtures with air***
H226:	***Flammable liquid. Vapours form explosive mixtures with air***
H315:	***Irritant to skin.***

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H319:	***Causes serious eye irritation.***
H332:	***Harmful if inhaled.***
H336:	***May cause drowsiness or dizziness.***
H361d:	***Potentially harmful to fecundity or unborn children.***
H372:	***Causes damage to organs Reasons for damage to bodies through prolonged or repeated exposure.***