

SAFETY DATA SHEET

1. Chemical product identification and manufacturer and/or supplier information

1.1 Product Name: Putty multi (putty zink pro, putty bumper flex)
 Manufacturer / Supplier: ECOPOL LLC
 Suvorov str. 35, Dzerzhinsk, 606010, Nizhny Novgorod Region, Russia
 Telephone number: +7 (8313) 230351; 230839; 230781; 230746
 Phone/Fax: +7 (8313) 254103; 274016

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

The product is intended for industrial or professional use only.

1.3 Emergency Phone No.:
 In case of emergency contact with the National Emergency Center.

2. Hazard(s) identification

2.1 Classification of the substance or mixture

· Classification according to Regulation (EC) No. 1272/2008:

H226:	Flammable liquid and vapour	Flammable liquid. Hazard Category 3
H315:	Causes skin irritation	Skin corrosion/irritation, Hazard Category 2
H319:	Causes serious eye irritation	Serious eye damage/eye irritation, Hazard Category 2
H361d:	Suspected of damaging the unborn child	Reproductive toxicity, hazard categories 2
H372:	Causes damage to organs (hearing organs) through prolonged or repeated exposure	Specific target organ toxicity — Repeated exposure, Hazard Category 1

2.2 Label elements

· Labeling according to Regulation (EC) No. 1272/2008:

This product is classified and labeled according to the Regulations for Substance and Mixture Classification, Labeling, and Packaging (CLP).

· Safety icons:



GHS02 GHS07 GHS08

· Signal word: Danger

· Hazard-determining components of labeling:
styrene

· Hazard warnings:

H226:	Flammable liquid and vapour
H315:	Causes skin irritation.
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H372:	Causes damage to organs (hearing organs) through prolonged or repeated exposure

· Precautions:

P210:	Keep away from heat/sparks/open flames/hot surfaces. — No smoking;
P261:	Avoid breathing dust/fume/gas/mist/vapours/spray;
P271:	Use only outdoors or in a well-ventilated area;
P280:	Wear protective gloves/protective clothing/eye protection/face protection;
P312:	Call a POISON CENTER or doctor/physician if you feel unwell;
P273:	Avoid release to the environment;
P102:	Keep out of reach of children.

2.3 Other hazards:



No information.


3. Composition (information on ingredients)

3.2 Chemical characterization: Mixtures

· Description: Mixture of below-listed substances with non-hazardous additives.

· Hazardous substances contained:

Chemical Name	H-Phrases	Icons and Signal Word (Codes)
Ethylbenzene (styrene)	Flam. Liq. 3	 GHS02  GHS07
Concentration, % (by weight) 6-19	Skin Irrit. 2	
CAS No. 100-42-5	Eye Irrit. 2	
EINECS No. 202-851-5	Acute Tox. 4 *	

Index Number 601-026-00-0 REACH No. 01-2119457861-32-XXXX	Repr. 2 STOT RE 1 (hearing organs)	H361d H372	 GHS08 Dgr
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4. First aid measures

· 4.1 Description of the first aid measures

· General guides:

Remove the pieces of clothing contaminated with this product immediately.

Toxicity symptoms may appear after many hours, therefore medical supervision is necessary for at least 48 hours after accident (casualty).

· After inhalation:

Supply fresh air or oxygen, seek medical care.

In loss of consciousness (syncopal state), put a patient on the side in stable position for transportation.

· After skin contact:

Wash with water and soap immediately, rinse well.

Get medical attention.

· After eye contact:

Wash an open eye with running water for several minutes. Remove contact lenses, if any, continue eye washing, and get medical advice.

· In case of ingestion:

Rinse mouth and drink a plenty of water. DO NOT induce vomiting. Get medical advice.

· 4.2 The most critical symptoms and effects, both immediate and subsequent:

There is no any respective information.

· 4.3 Indication of immediate medical attention and special treatment:

symptomatic treatment.

5. Fire-fighting measures

· 5.1 Extinguishing facilities

· Suitable extinguishing media:

CO₂, extinguishing powder or fine-sprayed (-sprinkled) water jet.

Large fire extinguishing with fine-sprayed (-sprinkled) water jet or alcohol foam.

· Extinguishing media unsuitable for safety reasons:

Full-jet water.

· 5.2 Special hazards from substance or mixture

In case of fire, the following can be released:

Carbon monoxide (CO) and carbon dioxide (CO₂).

· 5.3 Advice for firefighters

· Protective equipment: Put on a self-contained respiratory protection unit.

· Further information:

Cool exposed tanks with fine-sprinkled water jet.

Fire residues and contaminated water must be disposed of according to the instructions of administrative services.

6. Accidental release measures

· 6.1 Personal precautions, protective equipment, and emergency procedures:

Put on protective equipment. Keep unprotected people away.

Provide for sufficient ventilation.

Keep away from ignition sources.

Use a unit for respiratory protection against vapor / dust / aerosol.

Avoid contact with skin and eyes.

· 6.2 Environmental precautions:

Do not allow entering sewers/ surface or ground water/ ditches and basements.

If entered water basins or sewers, communicate it to the respective services.

· 6.3 Methods and materials for containment and cleaning up:

Provide for sufficient ventilation.

Collect using liquid-binding material (sand, kizelgur, acid restringent, multi-purpose restringents, and sawdust).

Send it for recovery or disposal in suitable tanks.

Dispose of collected material according to the instructions.

· 6.4 Reference to other sections:

For safe handling information, see Chapter 7.

For personal protective equipment information, see Chapter 8.

For disposal information, see Chapter 13.

7. Chemical product storage and handling regulations

· 7.1 Precautions for safe handling:

Ensure good ventilation/exhaustion at the workplace.

Ensure good air ventilation, especially at the floor level (vapors are heavier than air)

Amount of stock at the workplace should be limited.

Use exclusively in well-ventilated areas.

Avoid contact with skin and eyes.

Do not breathe smoke / aerosol.

Make sure that the entire area used of a production premise is examined.

· Fire and explosion protection guides:

Vapors with air may form explosive mixtures.

In empty container, air-gas mixtures able to ignite may form.

Keep away from the sources of ignition/heating/ sparks/open fire. Do not smoke.

Take precautionary measures against static discharge.

Use explosion-proof instruments / fittings and sparkless tools.

· 7.2 Conditions for safe storage including any incompatibilities

· Storage:

· The requirements imposed on warehouse premises and containers:

Store in a cool location.

Adhere to the flammable liquid storage regulations.

Adhere to the water-blocking regulations.

· Guides on compatibility with other substances in storage:

Adhere to the flammable liquid storage regulations.

· Further data for storage conditions:

Store the tank in well-ventilated area.

Store in tightly closed container at cool and dry area.

Protect against heating and direct sunlight.

8. Substance impact limitation and control / personal protective equipment

· 8.1 Control parameters

· The components with limit values requiring in-place monitoring:

CAS No. 100-42-5 styrene

MPC (RF) maximal one-time: 30 mg/m³

Shift-average: 10 mg/m³

DNEL values

CAS No. 100-42-5: styrene

Application: employee (inhalation)

Potential health effect: Long exposure - systemic effects: 85 mg/m³

Long exposure - local effects: 100 mg/m³

Application: employee (inhalation)

Potential health effect: Short exposure - systemic and local effects: 100 mg/m³

Application: employee (dermatitis)

Potential health effect: Long exposure - systemic effects: 406 mg/kg of body weight/day

Application: employee (dermatitis)

Potential health effect: Short exposure - local effects: low-hazard

PNEC values

CAS No. 100-42-5: styrene

freshwater: 0,028-0,04 mg/l

marine water: 0,014 - 0,04 mg/l

soil 0,146-0,2 mg/kg of soil dry weight

· Further instructions:

The data up-to-date when written was as a basis.

· 8.2 Exposure Controls / Personal Protection

· Personal protection equipment:

· General exposure-protection and hygienic measures:

Keep away from foodstuffs, beverages and animal feed.

During work, do not eat, drink, smoke or sniff tobacco.

Remove all the clothes contaminated and impregnated with harmful substances.

Do not breathe gases/vapors/aerosols.

Avoid contact with skin and eyes.

Wash hands before breaks and at the end of work.

Do not keep product-impregnated dusters / cleaning rags at the pockets of trousers.

· Respiratory Protection:

If the workplaces are well-ventilated, then no precautions are required.

· Hand protection:

Rubber gloves.

· Eye protection: Closely fitting goggles

· Body protection:

Protective work clothing

Body protection must be selected according to activity type and possible exposure.

· Ecological impact limitation and control:

Do not allow to enter sewers/ surface or ground water.

9. Physical and chemical properties

· 9.1 Information on the basic physical and chemical properties

· General information

Appearance	Liquid
Color	Intended
Odor	Natural to organic solvents
pH	Not specified
Boiling point	Not specified
Flash point (closed cup)	Plus 30°C (ethenylbenzene)
Self-ignition temperature	Plus 530°C (ethenylbenzene)
Density g/cm ³	1,8
Viscosity (relative, sec)	Not specified
Lower explosion limit, % volume	1,1(ethenylbenzene)
Upper explosion limit, % volume	5,2(ethenylbenzene)
Vapor Density (Pa/20°C):	Not specified
Non-volatile matter mass fraction content %	Not specified
Solubility in water	Insoluble

· 9.2 Other information: There is no any respective information.

10. Stability and reactivity

10.1 Chemical stability:

Stable under the recommended product storage and handling conditions.

10.2 Reactivity:

None under the recommended product storage and handling conditions.

10.3 Conditions to avoid:

Direct sunlight, high temperatures, open flame, and sparks.

Contact with strong oxidizers, peroxides, strong acids and bases.

10.4 Hazardous decomposition products:

Thermal decomposition may produce carbon monoxide and other toxic gases.

11. Toxicological data

· 11.1 Information on toxicological effects

· Acute toxicity:

· LD/LC50 values (lethal dose/concentration) necessary for classification:

CAS No. 100-42-5: styrene

Orally (by mouth) LD50 6000 mg/kg bw (hamster)

Dermally (dermal contact) LD50 2000 mg/kg bw (rat)

Inhalative (by breathing) no information

· Primary irritant effect:

· on skin: Long-time and repeated contacts may decrease skin and induce dermatitis.

· on eyes: Irritating effect.

· Toxicity - from subacute to chronic: not related.

· Additional toxicological directions:

Based on the calculation method of EC General Classification Directive for Preparations as revised (updated), the product poses the following hazard types:

Harmful to health.

Irritating.

Hazard through skin absorption.

· Information on the following potential impact groups:

· Sensitization: Unaware of sensitizing impact.

· Reintaking toxicity: not defined.

· Carcinogenic, heredity-changing and infertility-inducing action

As per contemporary knowledge, no CMR effects are known.

12. Ecological information

· 12.1 Toxicity

CAS No. 100-42-5: styrene

EC50 (72h) 4,9 mg/l / for algae

NOEC/21 days 1,01 mg/l / for aquatic invertebrates

LC50/96h 4,02-10 mg/l / for fish

- 12.2 Persistence and degradability:
There is no any respective information.
- 12.3 Bioaccumulative potential: There is no any respective information.
- 12.4 Mobility in soil: There is no any respective information.
- Additional ecological directions:
- General guides:
The product contains volatile organic components. Prevent the product from getting into earth, water, water basin, sewers, and biological treatment plants.
- 12.5 PBT (persistent bioaccumulative toxin) and vPvB (very persistent and very accumulative) evaluation results:
- PBT: No information.
- vPvB: No information.
- 12.6 Other harmful effects: There is no any respective information.

13. Disposal instructions

- 13.1 Waste processing techniques
- Recommendation:
Elimination (removal) according to the instructions of administrative services.
- European waste list:
Waste classification No. is assigned according to place of origin and recycling method.
- Contaminated tare:
- Recommendation:
Do not collect with household waste. Give a contaminated container to the subjects that have received waste collection, recycling, and neutralization permission from competent body.

14. Transport data

		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 threat: · Marine pollutant:	None	None	None
14.6	Special precautions for users: Do not carry together with Category 1; Category 4.2; Category 4.3; and Category 5 materials. Do not use open flame, do not smoke			

15. Prescriptions

- 15.1 Safety standards, workplace safety rules and ecological regulations or standards, applicable for substance or mixture
- National prescriptions:
- Information on use limitation:
Teenager employment limitations must be considered.
- 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16. Miscellaneous

The data is based on the up-to-date knowledge but it is not a guaranty of any specific properties of the product and establishes no legally effective contractual relations.

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 Category 2
STOT RE 1	Specific target organ toxicity, Hazard Category 1
GHS02	Hazard icon: flame
GHS07	Hazard icon: exclamation point
GHS08	Hazard icon: hazard for human health
Dgr	Danger
H226:	Flammable liquid and vapour
H315:	Causes skin irritation
H319:	Causes serious eye irritation
H332:	Harmful if inhaled
H361d:	Suspected of damaging the unborn child
H372:	Causes damage to organs through prolonged or repeated exposure
	Causes damage to organs (hearing organs) through prolonged or repeated exposure