

بوليكيم انترناشيونال لصنعة الرانتجات (ش.ز.م.م)

Polychem Resins International Industries LLC

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MATERIAL SAFETY DATA SHEET

1. Chemical Product and Company Identification

Trade name : PolyPol -1015

Chemical Name: Orthophthalic Unsaturated Polyester Resin Solution in Styrene

Manufacturer: Polychem Resins International Industries LLC,

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2. Composition/Information on Ingredients

Preparation: Esterification reaction of diacids and diols, Unsaturated polyester

resin

ComponentsCAS-No.LabelingConcentrationStyrene100-42-5Xn;R10-R20-R36/3835 – 46 %

Component or Impurity contributing to hazard

Components	CAS-No.	OSHA	ACGIH TLV	Concentration
Styrene	100-42-5	100 ppm	s,50 ppm/100STEL	35 - 46 %

3. Hazard Identification

(a) Flammable (b) Harmful if inhaled(c) Irritating to eyes and skin (d) The mixture of product vapour and air could be explosive. (e) Keep away from source of ignition.

4. First Aid Measures

Inhalation: Remove from area to fresh air. If respiratory irritation develops or

breathing becomes difficult, seek medical attention immediately.

Skin Contact: After contact with skin, wash immediately with plenty of soap and

water. If irritation develops and persists, seek medical attention.

Remove all the contaminated clothing.

Eye Contact: For eye contact, flush eyes with running water for atleast 15 minutes.

Hold eyelids apart to ensure rising of entire surface of the eyes and lids

with water. If irritation persists consult ophthalmologist.

Ingestion: If vomiting occurs naturally, have victim lean forward to reduce risk of

aspiration. Call a physician.



5. Fire Fighting Measures

Suitable extinguishing media: Dry powder, Carbon dioxide (CO₂), foam, water spray, .

Do not use solid water stream.

Specific hazard during fire : Hazardous gases produced in fire under conditions that

Fighting produce incomplete combustion may consists of

Carbon Monoxide and aromatic hydrocarbons.

Special protective

equipment for fire-fighting

: Use personal protective equipment. Do not breath fumes .

Explosive vapours in air.

Additional advise : Water mist may be used to cool closed containers.

6. Accidental Release Measures

Personal precautions : Use personal protective equipment. Keep people away from

and upwind of spill/leak. Remove all sources of ignition.

Avoid inhalation of vapours.

Environmental precautions: Keep spill out of sewers and open bodies of water. Do not

wash remainder with water.

Methods for cleaning up : Absorb spill with inert material (sand, saw dust, earth, etc.)

and give the liquid and soil in separate containers for recovery or disposal. Keep spill out of sewers and open

bodies of water.

7. Handling and Storage Handling

Safe handling Advice : Provide sufficient air exchange and/or exhaust in

work rooms. Avoid contact with skin. No smoking.

Keep container tightly closed

Advise on protection against fire and

explosion

: Danger! Flammable material. Keep away from heat and sources of ignition. To avoid ignition of vapours by static electricity discharge, all metal parts of the equipment must be grounded. Incomplete with

oxidising agents.

Storage

Requirements for storage areas and direct containers

: Keep in a dry, cool and well-ventilated place. To maintain product quality, do not store in heat or and Sunlight. Do not store at temperature exceeding

25 ° C in original container only.

Other data

Storage stability

Stable at normal conditions

Keep container tightly closed.



8. Exposure Controls/Personal Protection

Components with workplace control parameter

Styrene : CAS No. : 100-42-5)

ACGIH-TLV

Exposure Limits : 20 ml/m³, 85 mg/ m³ Short Term exposure limit : 40 ml/m³, 170 mg/ m³

Personal Protective Equipment

Hygiene measures : Avoid contact with skin, eyes and clothing. Do not breath

vapour. Wash hands before breaks and immediately after handling the product. Remove working clothes after work

for body protection.

Respiratory Protection : Mask with A-type filter for organic vapours

Hand protection : Solvent –resistant gloves

Eye Protection : Safety glasses

9. Physical and Chemical Properties

Appearance

State of aggregation : Liquid(@ 25°C)

Form

Colour : bluish colour Odour : Styrene like

Safety relevant Data

Boiling point range : *145 ° C @ 760 mm of Hg

Density : > 1g/cm³ @ 25 ° C

Relative vapour density : *3.6

Vapour pressure : *7 mbar(20° C)

Water solubility : *0.30 gm/lit in soluble

pH : Not Applicable

Viscosity, Dynamic : < 1000 mPa.s@25 °C by Brookfield viscometer



Flash point : *31.5 ° C
Upper Explosion Limit : *8 % (V)
Lower Explosion Limit : *1.1 % (V)
Ignition temperature : *490 ° C

(* This data is for Styrene)

10. Stability and Reactivity

Hazardous Reactions : Stable under normal storage conditions.

When heated at relatively high temperature the resin polymerises spontaneously. This reaction could be strongly exothermic. Avoid leaving mass

of catalysed material.

Decomposition Products

: Carbon Dioxides, Aromatic hydrocarbons : Heat

Conditions to avoid

Material to Avoid

: Strong oxidising agents. Never mix organic

peroxide with accelerator.

11. Toxicological Information

The following toxicological data refer to:

Styrene : (CAS No. : 100-42-5)

Acute oral toxicity (LD₅₀) : 2650 mg/Kg Acute inhalation toxicity : 12mg/lit

(LC₅₀) Species : Rat

Exposure time: 4 hours

Skin Irritation : Mild Irritant

Species: Rabbit

12. Ecological and Ecotoxicological Information

Additional advice : At present there is no ecotoxicological information

available



13. Disposal Considerations

Waste from residue : Do not empty into drains . This material must be

disposed off as hazardous waste. Dispose of in

compliance with all federal, state and local laws and

regulations.

14. Transport Information

ADR : Class 3/Item: 31.5 ° C

Packaging group : III

Label: Flammable liquid No.3

HI No.: 30

RID: : Class 3/Item: 31.5 ° C

Packaging group : III Label : Flammable liquid No.3

HI No.: 30

IATA Cargo : Class : 3

Packaging group: III

Label: Flammable Liquid No.3

Packing instructions (passenger aircraft): 305

IMDG-Code : Class 3.3

Packaging group: III

Label: Flammable Liquid No.3

Ems: 3-05 MFAG: 310

UN/ID No. : 1866

Proper shipping name : Resin Solution, flammable



15. Regulatory Information

Hazardous Material : Yes

Additional Advice : Data indicated is for Styrene. Classification and labelling

according Directive 88/379/EEC:

EU Index No. : 601-026-00-0

Symbols/Indications of danger:







R-phrase(s) R10 : flammable

R20 : Harmful by inhalation

R36/38: Irritation by eyes and skin

S-Phrase(s) S23 : Do not breath vapour

16. Other Information

Other

Instructions/regulations : The product is a preparation . The components are listed

in TSCA and EINECS

The information contained herein is believed to be correct and corresponds to the latest state of scientific and technical knowledge. However, no warranty is made, either express or implied, regarding its accuracy or the results to be obtained from the use of such information.



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