

SAFETY DATA SHEET

ESGAL 4002

Date of Issue: 13.07.2023

Revision No: 00

SECTION 1 - CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

MANUFACTURER / SUPPLIER: ESG RESIN PRIVATE LIMITED

Contact details: ESG Resin Private Limited
Santosh Nivas, Flat 305, Plot 102,
Sector 19, ULWE, Wahal, Raigarh 410206, Maharashtra

PRODUCT NAME:

ESGAL 4002

Description: Short Soya Alkyd SO 40/70

SECTION 2 - HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to regulation(EC no.1272/2008(EU-GHS/CLP)

Flammable liquids	Category 3
Acute toxicity-Oral	Category 5
Acute toxicity-Dermal	Category 4
Acute toxicity-Inhalation	Category 3
Skin irritation	Category 2
Eye irritation	Category 2
Reproductive Toxicity	Category 2
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated Exposure)	Category 2
Aspiration hazard	Category 1
Aquatic toxicity(Acute)	Category 2
Aquatic toxicity (Chronic)	Category 2

2.2 Label elements

Labelling according to Regulation EC no. 1272/2008 CLP.

Hazard pictograms:



Signal Word : Danger

SAFETY DATA SHEET

ESGAL 4002

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Hazard statements:

- H226 Flammable.
- H302 Harmful if swallowed.
- H304 May cause lung damage, if swallowed.
- H332/312 Harmful by inhalation and in contact with skin.
- H318 Risk of serious damage to eyes.
- H320/H315 Irritating to eyes & skin
- H336 Vapors may cause drowsiness & dizziness
- H350 May cause cancer
- H 361 Possible risk of impaired fertility
- H411/413 Toxic to aquatic organism.
- EU H066 Repeated exposure may cause skin dryness or cracking.

Precautionary Statements

- P102 Keep out of reach of children.
- P271 Keep container in well-ventilated place.
- P210 Keep away from heat/sparks/hot surface. Do not smoke when using.
- P260 Do not breathe dust/fume/gas/mist/vapours/spray.
- P262 Do not get in eyes, on skin or on clothing.
- P280 Wear Protective gloves /clothing, eye/face protective equipment.
- P284 In case of insufficient ventilation wear suitable respiratory equipment.
- P271 Use only in well-ventilated areas.
- P273 Avoid release to the environment.

SECTION 3 - COMPOSITION, INFORMATION OF INGREDIENTS

Hazardous Ingredients:

Chemical	CAS No.	Weight %
Xylene	1330-20-7	25 - 42

SECTION 4 - FIRST AID MEASURES

IF SWALLOWED:

Rinse mouth immediately and drink plenty of water. If symptom persists, consult doctor for medical advice. Do not induce vomiting without medical advice.

IF ON SKIN OR CLOTHING:

Take off immediately all contaminated clothing. Wash skin with soap and water. If skin irritation/rash occurs, consult doctor for medical advice.

SAFETY DATA SHEET

ESGAL 4002

Date of Issue: 13.07.2023

Revision No: 00

IF IN EYES:

Rinse cautiously with water for several minutes. If eye irritation persists, consult doctor for medical advice.

IF INHALED:

Move victim to fresh air and at rest in a comfortable for breathing.

NOTE TO PHYSICIAN: Treat symptomatically.

SECTION 5 - FIRE FIGHTING MEASURES

Solvents components are classified as flammable liquid class :3

Flash point: 34°C

Auto-ignition point: 265°C

Lower flammable limit: 1.10%

Upper flammable limit: 6.50%

Extinguishing media : Dry chemical powder, foam or carbon dioxide or water.

Fire exposure hazards: Keep containers cool by spraying with water if exposed to fire. Heating will cause pressure rise with the risk of bursting and subsequent explosion.

Fire will produce dense smoke and toxic decomposition products.

Protective Equipment : Don't inhale combustion gases. Wear self-contained breathing apparatus

Environmental protection: Don't allow run off material from fire fighting to enter into drains & sewerage.

SECTION 6 - ACCIDENTAL RELEASE MEASURES

IN CASE OF SPILLS OR LEAKS:

Vapours may cause flash fire or ignite explosively. Ensure ventilation.

Clean up: Keep unnecessary people away; isolate hazard area and deny entry.
Shut off ignition sources; keep flares, smoking or flames out of hazard area.
Keep out of waterways. Do not throw leakage materials directly into environment.

Small Spills: Take up with sand, earth or other non-combustible absorbent material and place in an empty container where applicable.

Large Spills: Prevent leakage by enclosing with nonflammables (sand, earth, etc) and collect into empty containers for later disposal.

Waste Disposal: Dispose in accordance with applicable Local Govt. regulations.

SAFETY DATA SHEET

ESGAL 4002

Date of Issue: 13.07.2023

Revision No: 00

SECTION 7 - HANDLING AND STORAGE

HANDLING:

Avoid contact with skin, eyes & clothes.

Use with adequate ventilation. Do not eat, drink & smoke while using the product.

STORAGE:

Keep container tightly closed when not in use. Store in a cool & dry place.

Do not store near flames, ignition source, direct sunlight, or at elevated temperatures.

SECTION 8 - EXPOSURE CONTROLS, PERSONAL PROTECTION

EXPOSURE LIMITS:

Chemical	CAS No.	OSHA PEL	ACGIH TLV
Xylene	1330-20-7	TWA : 100 ppm STEL : 150 ppm (8 hrs)	TWA : 100 ppm STEL : 150 ppm (8 hrs)

ENGINEERING MEASURES:

Ensure adequate ventilation to keep vapor concentration well below occupational exposure limits. If this is not adequate, suitable respiratory protective equipment must be worn. Care must be taken in controlling the emission of vapours.

Ensure eye-wash station and safety showers must be placed nearer to workplace. Not required under normal use condition

PERSONAL PROTECTIVE EQUIPMENT:

Hand protection : wear impervious chemical resistant gloves to prevent skin exposure.

Skin & Body protection: Wear suitable protective clothing. Use long sleeves if flushing occurs. Wear appropriate safety shoes or boots.

Eye & Face Protection : Use safety goggles or safety spectacles with side shielded to protect liquid splashing. Use face shield to protect splashing on face.

Respiratory protection : Use proper respiratory protection to avoid solvent vapours & in case of insufficient exhaust/ventilation.

Hygiene Measures : Use good hygiene practice in workplace. While working, don't eat & drink and smoke in workplace. Wash hands every time before taking any kind of foods or smoke.

SAFETY DATA SHEET

ESGAL 4002

Date of Issue: 13.07.2023

Revision No: 00

SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Viscous Liquid

Odor: Characteristic odor of solvents

Non-Volatile: 58 - 72 % (120°C, 1h)

Melting Point: Not applicable

Boiling Point: 135-145°C

Flash Point: 32°C

Specific Gravity : 0.95 ± 0.2 (30°C)

Viscosity (50% in Xylene) : 260 – 300 Sec (B4 Cup/30°C)

Solubility in Water : Insoluble

pH : NA

Vapor pressure: 1.012 mm at 20°C

Vapor density: 4.65 (air = 1)

Auto-Ignition point: 265°C

Explosion Limit: Lower 1.1 Upper 6.5 (% by Vol)

Partition Coefficient (n-Octanol/Water) : Xylene 3.1

SECTION 10 - STABILITY AND REACTIVITY

PRODUCT REACTIVITY:

CHEMICAL STABILITY: Stable under ambient condition

HAZARDOUS POLYMERIZATION: Does not occur.

CONDITIONS TO AVOID: Keep away from from open flames, direct sunlight, hot surface and source of ignition

INCOMPATIBLE MATERIALS: No relevant data available.

HAZARDOUS DECOMPOSITION PRODUCTS: Thermal decomposition can release gases & vapors, Carbon mono- & di- oxides.

SAFETY DATA SHEET

ESGAL 4002

Date of Issue: 13.07.2023

Revision No: 00

SECTION 11 - TOXICOLOGICAL INFORMATION

ACUTE TOXICITY (Information source - NIOSH) :

Chemical	LD50 : Oral – Rat, mg/kg	LD50 : Dermal – Rabbit, mg/kg	LC50 : Inhalation – Rat, ppm (exposure time)
Xylene	4300	>1700	5000 mg/m ³ /4 hrs

Acute Toxicity Effects :

Ingestion : Low acute oral toxicity. Ingestion may cause severe pulmonary injury and adverse effects.

Inhalation : Harmful. The vapor has anesthetic properties and high conc may cause headache, fatigue, nausea & dizziness.

Skin : Harmful and irritating to skin.

Eye : Vapor may irritates eyes.

SECTION 12 - ECOLOGICAL INFORMATION

Ecotoxicity of this product has not been investigated. Data for Solvents are given in the table below:

Chemical	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	Daphnia Magna (Water Flea)
Xylene	EC50 = 4.7 mg/L, 72h (Pseudokirchneriella subcapitata)	LC50 = 16.1 mg/L, 96h (Lepomis macrochirus)	EC50 = 3.68 mg/L, 30min (Photobacterium phosphoreum)	EC50 = 3.2 mg/L, 48h

SECTION 13 - DISPOSAL CONSIDERATIONS

Product : Do not allow material to be released to the environment (ground, air or water Bodies, River or sewerages).

Container : Empty container can be disposed off as scrap material recycled, in accordance with the local regulations.

Do not allow material to be released to the environment (ground, air or water Bodies, River, or sewerages).

SAFETY DATA SHEET

ESGAL 4002

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SECTION 14 - TRANSPORT INFORMATION

Transport only in accordance with the requirements of the carriage of dangerous goods by Land , Sea & Air.

Land Transport

Proper Shipping Name : Resin solution UNDG Class : 3
UN No : 1866 Packing Group : III
Transport label required : Flammable liquid HAZCHEM Code : 3[Y]

Sea Transport (IMO)

Proper Shipping Name : Resin solution IMDG Class : 3
UN Number : UN1866 Packing Group : III
Transport label required : Flammable liquid

Air Transport (ICAO/IATA)

Proper Shipping Name : Resin solution Hazard Class : 3
UN Number : UN1866 Packing Group : III
Transport Label Required : Flammable liquid

SECTION 15 - REGULATORY INFORMATION

The product is classified and labelled as under the dangerous preparation directive 88/379/EEC and dangerous substance directive 67/548/EEC.

Solvent component : Xylene .

Components of this product are listed in inventory under :

Xylene : EINECS, TSCA, AICS, ENCS/MITI(Japan), TCCL(Korea), IECSC(China), DSL(Canada).

SECTION 16 - OTHER INFORMATION

DISCLAIMER:

The information contained in this safety data sheet is based on available data from reliable sources and correct to the best of our current state of knowledge & experience. ESG Resin Private Limited makes no warranty, express or implied, regarding the accuracy of the data or results obtained from use of this product. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release. The user is solely responsible for determining the suitability of any material or product for a specific purpose and for adopting any appropriate safety precaution.