



MATERIAL SAFETY DATA SHEET

ALKYD RESIN 115-60%

IDENTIFICATION

Product name	Resin 11560
Product identifier	Alkyd Resin
Chemical Name	Unsaturated polyester Resin
Product code	11560%
Recommended use	OIL BASE BINDER
Recommended restrictions	None known
Company Name	Brighto Chemicals Pakistan (PVT).LTD
Address	M-3 Industrial City Sahainwala Faisalabad Pakistan
Telephone	041-8900222,8900333,8900444
Emergency phone number	0316-8883115

PHYSICAL & CHEMICAL PROPERTIES

Appearance	Yellow. Liquid
Physical state	Liquid.
Form	Liquid.
Color	Yellow.
Odor	Mineral spirits
Odor threshold	Not available.
Melting point/freezing point	Not available
Initial boiling point and boiling range	428 °F (220 °C)
Flash point	102.2 °F (39.0 °C)
Flammability limit lower (%)	0.6%
Flammability limit – upper (%)	6 %
Vapor pressure	Not available.
Vapor density	Not available.
Relative density	0.93-- 0.95 (60 % solids @25 C)
Solubility (ies)	Insoluble in water
Partition coefficient	Not available
Auto –ignition temperature	Not available
Decomposition temperature	Not available
Viscosity	< 180 Sec (FC)
Viscosity temperature	77 F (25 “C”)
Density	0.95 g/cm3
Percent volatile	40



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HAZARD(S) IDENTIFICATION

Physical hazards	Flammable liquids	Category 3
Health hazards	Skin corrosion/irritation	Category 2
	Carcinogenicity	Category 2
	Specific target organ toxicity, single exposure	Category 3 narcotic effects
	Specific target organ toxicity repeated	Category 2 (kidney)
OSHA defined hazards	Not classified	

Label elements:



Signal word	Warning
Hazard statement	Suspected of causing cancer. May cause damage to organs (Kidney) through prolonged or repeated exposure.

PRECAUTIONARY STATEMENT

Prevention	<p>Do not handle until all safety precautions have been read and understood. Keep away from</p> <p>Heat/sparks/open flames/hot surfaces. - No smoking. Keep container tightly closed. Ground/bond</p> <p>Container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment.</p> <p>Use only non-sparking tools. Take precautionary measures against static discharge. Wear</p> <p>Protective gloves/protective clothing/eye protection/face protection. Do not breathe</p>
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Mist/vapors/spray. Wash hands thoroughly after handling.

Response

If exposed or concerned: Call a poison center/doctor. If on skin (or hair):
Take off immediately all

Contaminated clothing. Rinse skin with water/shower. If skin irritation
occurs: Get medical

Advice/attention. Wash contaminated clothing before reuse. If inhaled:
Remove person to fresh air

And keep comfortable for breathing. Call a poison center/doctor if you
feel unwell. In case of fire:

Use foam, carbon dioxide, dry powder or water fog for extinction.

Storage

Store in a well-ventilated place. Keep container tightly closed. Keep cool.
Store locked up.

Disposal

Dispose of contents/container in accordance with
local/regional/national/international regulations.

Hazard(s) not otherwise

Static accumulating flammable liquids

Environmental Hazards

Hazardous to the aquatic environment, acute Category 2

Hazard

Hazardous to the aquatic environment, Category 2

Hazard statement

Toxic to aquatic life with long lasting effect



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FIRST-AID MEASURES

Inhalation	Move injured person into fresh air and keep person calm under observation. Get medical attention if any discomfort continues.
Skin contact	Remove contaminated clothing immediately and wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.
Eye contact	Immediately flushes eyes with plenty of water for at least 15 minutes. Remove contact lenses, if present and easy to do. Get medical attention if irritation develops and persists.
Ingestion	Rinse mouth thoroughly with water and give large amounts of milk or water to people not unconscious. Only induce vomiting at the instruction of medical personnel. Get medical attention if any discomfort continues.
Most important symptoms/effects, acute and delayed	Overexposure to mists/vapors of this product may cause headache, dizziness, nausea, and respiratory tract irritation. Symptoms include itching, burning, redness and tearing. Defats the skin
Indication of immediate medical attention and special treatment needed	Treat symptomatically
General information	Thermal burns: Flush with water immediately. While flushing, remove clothes which do not adhere to affected area. Call an ambulance. Continue flushing during transport to hospital.

FIRE-FIGHTING MEASURES

Suitable extinguishing media	Foam. Carbon dioxide (CO ₂). Dry chemical. Powder.
Unsuitable extinguishing media	Do not use water jet as an extinguisher, as this will spread the fire.
Specific hazards arising from the chemical	During fire, gases hazardous to health may be formed. Solvent vapors may form explosive mixtures with air.



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Special protective equipment and precautions for firefighters

Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire-fighting equipment/instructions

Move containers from fire area if you can do so without risk. Use water spray to cool unopened containers. Cool containers with flooding quantities of water until well after fire is out.

ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid inhalation of vapors/dust and contact with skin and eyes. Wear suitable protective clothing. For personal protection, see section 9 of the SDS.

Methods and materials for containment and cleaning up

Remove sources of ignition. Absorb spill with inert material (e.g., dry sand or earth), then place in a chemical waste container.

Environmental precautions

Do not discharge into drains, water courses or onto the ground.

HANDLING AND STORAGE

Precautions for safe handling

Read label before use. Use only in well-ventilated areas. Avoid inhalation of vapors/spray and contact with skin and eyes. Wear appropriate personal protective equipment. The product is flammable, and heating may generate vapors which may form explosive vapor/air mixtures. Do not smoke and do not spray near a naked flame or other sources of ignition. Do not smoke and do not spray near an open flame or other sources of ignition.

Conditions for safe storage, including any Incompatibilities

Keep away from heat, sparks and open flame. Keep in a cool, well-ventilated place. Store away from incompatible materials. Keep out of reach of children.

Appropriate engineering controls

Use explosion-proof equipment. Provide adequate ventilation and minimize the risk of inhalation of vapors and mists. Provide easy access to water supply or an emergency shower.

Eye/face protection

Risk of contact: Wear approved safety glasses or goggles.



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SKIN PROTECTION

Hand protection

Wear protective gloves. Nitrile gloves are recommended but be aware that the liquid may penetrate the gloves. Frequent change is advisable.

Other

Wear appropriate chemical resistant clothing to prevent any possibility of skin contact.

Thermal hazards

Wear appropriate thermal protective clothing, when necessary.

General hygiene considerations

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Ecological Effects

This product is not expected to be actually toxic to aquatic species due to its poor solubility.

Toxicity to fish.LC 50 (96 h)

0.24mg/liter (for fathead minnows)

Transportation

This product is not classified for the purpose of transportation

Road Transport ADR/RID

Class

Not classified

Maritime Transport IMPG

Class

Not classified

Air Transport IATA

Class

Not classified

Toxicological Information

Low order of acute toxicity

LD50 ORAL--RAT

27,000 mg/kg.

LD50 Skin ---Rabbit

25,000 mg/kg.



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Sub-acute/sub-chronic Toxicity	The repeated oral administration can cause effects to tissues or Liver, Kidney& spleen.
Chronic Toxicity/Carcinogenicity	Repeated ingestion of large amounts produces liver enlargement in animals. Lifetime consumption of large amounts in rats and mice will produce liver cancer.
Unsuitable Extinguishing Agents	Water jet
Protective Equipment for Fire Fighting	Self-contained breathing apparatus, Combustion wills generate oxides of carbon, bitterly pungent smoke and irritation fumes.
Other Information	This information is based on our present state of knowledge, being in good faith and is intended to describe the product for the purpose of health, Safety and Environment only. No warranty either expressed or implied is given which regard to the outcome of the use of such information