

**MATERIAL SAFETY DATA SHEET:**  
Hazardous according to criteria of work safe in India

**ADDVALUE REDUCER:**

**CHEMICAL PRODUCTS AND COMPANY IDENTIFICATION**

**GUJARAT DYESTUFF INDUSTRIES PVT. LTD**

16, Aaryans Corporate Park,  
Near Shilaj Railway Crossing,  
Thaltej, Ahmedabad-380 059  
E mail: [gdipl@gdipl.com](mailto:gdipl@gdipl.com)  
Web: <http://www.gdipl.com>

Product Name: "ADDVAULE" REDUCER  
Manufacturer's Product Code No: R 0011  
Use: Flexo Graphic Printing Ink Reducer  
UN Number: 1219; Proper Shipping Name: Reducer R0011  
Flammable Liquid; Dangerous Goods Class: 3  
Packing Group: II; Hazchem Code: 3 [Y] E; Poison: None Allocated

**COMPOSITION/ INFORMATION ON INGREDIENTS**

<u>SUBSTANCE NAME:</u>	<u>PROPORTION</u>	<u>CAS NUMBER</u>
ISOPROPYL ALCOHOL	100%	67-63-0

**HAZARD IDENTIFICATION**

Hazardous according to the criteria of work safe in INDIA.  
HAZARD CATEGORY: Harmful, Irritant  
Acute Health Effects:

**SWALLOWED:**

Harmful if swallowed. May cause to mouth, throat and stomach with effects including pains in the stomach, which may lead to nausea & diarrhea. Swallowing large quantities may result in metabolic acidosis, hypokalemia and hemoglobinuria and possibly seep coma.

**EYE:**

May cause irritation to the eyes, with effects including: Tearing, pain, Stinging & blurred vision. Vapour cause eye irritation, splashes caused severe irritation, possible corneal burns & eye damage.

**SKIN:**

Harmful by skin contact. May cause irritation to the skin, with effects including; Redness & itch ness. It may absorb through the skin with resultant toxic effects in blood system, spleen & testes.

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**INHALED:**

Harmful if inhaled. Mists or vapours will cause irritation to the nose, throat & respiratory system with effects including: Dizziness, headache, coughing and loss of co-ordination & chest pain. This may affect central nervous system.

**CHRONIC:**

Prolonged or repeated skin contact may lead to dermatitis.

Product may also be absorbed through the skin with resultant toxic effects.  
Prolonged or repeated exposure may lead to irreversible damage to health.  
Prolonged or repeated exposure or deliberately concentrating and inhaling the vapour may result in lung function incapacity or death.

**FIRST AID MEASURES**

**SWALLOWED:**

If swallowed DO NOT induce vomiting. If fully conscious, give 1 to 2 glasses of water to drink. Seek urgent medical attention assistance.

**EYE:**

If irritation persists immediately transport to hospital or doctor.

**INHALED:**

Remove victim to fresh air. Apply resuscitation if victim is not breathing- Administrator oxygen if breathing is difficult. Transport to hospital or doctor immediately.

**FIRST AID FACILITIES:**

Eye wash fountain, safety shower and wash room facilities.

Advice to doctor:

Treat symptomatically.

**FIRE FIGHTING MEASURES**

Fire/ Explosion Hazard

Extinguishing Media: Use dry chemical, carbon dioxide or foam.

**SPECIAL FIRE FIGHTING PROCEDURES:**

Self contained breathing apparatus required for fire fighting personnel. If possible to do so safely, shut off fuel to fire. Use water spray to spray to cool fire exposed surfaces and to protect personnel.

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**UNUSUAL FIRE AND EXPLOSION HAZARDS:**

Vapours from this product may travel or be moved by air currents and be ignited by pilot lights other flames, smoking, sparks, heaters, electrical equipments, static discharge or other ignition sources at locations distant from the point of handling.

**FLAMMABILITY:**

Highly flammable liquid. Avoid all sources of ignition, heat & naked flames.

**ACCIDENTAL RELEASE MEASURES**

**SPILL OR LEAK PROCEDURES:**

Shut off ignition sources, no flares, smoking in hazard area. Stop leak if you can do it without risk. If spill is large bund area, if possible with booms or barriers to prevent liquid entering waterways. Water spray from extinguisher sources may reduce vapour but it may not ignition in closed spaces.

**SMALL SPILLS:**

Throw vermiculite or kitty litter on to spill. DO NOT use sawdust. Use non-sparking tools (shovels) and scoop up contaminant and place into labeled drum for later disposal.

**LARGE SPILLS:**

Notify emergency services (Police & Fire Brigade). REMAIN CALM. Tell emergency responders exact location, nature, hazards, quantities, type of vehicle and any other information that would be helpful. Contain spill. Remove all ignition sources and safely stop flow of spill. Bund area. Trained personnel should wear personal protective equipment as highlighted in this MSDS. Blanket the spill with foam or use water fog to disperse vapour clouds. Consult an expert regarding of this product.

**HANDLING & STORAGE**

Store in a cool place and out of direct sunlight. Store away from sources of heat, ignition, strong alkalis, acids, combustibles and oxidizing agents. All equipment must be earthed. Store in original packages as approved by manufacturer. For further information please refer to the Engineering controls of this MSDS.

**EXPOSURE CONTROLS/ PERSONAL PROTECTION**

Exposure Standards:

No exposure standards are available for this product; however, the following exposure standards have been assigned by National Occupational Health & Safety Commission (NOHSC) to the following components of the products:

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References: H

**Engineering Controls:**

Highly flammable liquid. Maintain adequate ventilation at all times. Prevent accumulation of vapours in hollows or sumps. Eliminate any sources of ignition. Elevated temperature or mechanical action may from vapours, mists or fumes which may require local exhaust ventilation systems.

**Personal Protection Equipments:**

GLOVES: Nitrile Rubber

EYES: Chemical goggles or face shield to protect eyes.

**RESPIRATORY PROTECTION:**

Avoid breathing of vapours. When vapours exceed the exposure standards then the use of a half face respirator with organic vapour cartridge is recommended. If entering spaces where the airborne concentration of a contaminant is unknown then the use of a self contained breathing apparatus with positive pressure air supply is recommended.

**PHYSICAL & CHEMICAL PROPERTIES**

Appearance: Clear, Colorless liquid

Boiling Point: 82 Degree Centigrade

Vapour Pressure: 44 @ 25 Degree C (mm Hg)

Specific Gravity: 0.7904 @ 20 Degree C.

Flash Point: 12 Deg. Centigrade

Flammability Limits: LEL 2.0 UEL: 12.7

Solubility in water: Miscible in Water

**STABILITY & REACTIVITY**

**STABILITY:**

Stable under normal conditions of use.

**HAZARDOUS DECOMPOSITION PRODUCTS:**

Emits oxides of carbon when heated to decomposition.

**HAZARDOUS POLYMERIZATION:**

Will not occur

**INCOMPATIBILITIES:**

Strong oxidizing agents

**CONDITIONS TO AVOID:**

Heat, flames, ignition sources and incompatibilities.

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**TOXICOLOGICAL INFORMATION**

There is no toxicological information available for this product.

**ISOPROPYL ALCOHOL**

Oral LD<sub>50</sub>(rat): 470 mg/kg

Inhalation LC<sub>50</sub> (rat): 450ppm/4 Hr

Dermal LD<sub>50</sub>(rabbit): 220 mg/kg

**ECOLOGICAL INFORMATION**

This substance may cause long term adverse effects in the environment. Avoid contaminating drains, sewers or waterways.

**DISPOSAL CONSIDERATION**

Advise flammable nature.

**TRANSPORT INFORMATION**

UN NUMBER: 1219

Proper Shipping Name: Flammable Liquid, N.O.S (contains 2- Butoxy Ethanol & Ethanol)

Dangerous Goods Class: 3

Packing Group: II

Hazchem Code: 3[Y] E

Emergency Information: Highly Inflammable

**REGULATORY INFORMATION**

Poison Schedule: None allocated

**RISK PHRASES:**

R 11 Highly Flammable

R 20/21/22 Harmful by inhalation, in correct with skin contact & if swallowed

R 37 Irritating to respiratory System

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**SAFTETY PHRASES:**

S2 Keep out of reach of children  
S7 Keep container tightly closed  
S 16 Keep away from sources of ignition- No Smoking  
S 24/35 Avoid contact with skin & eyes.

**OTHER INFORMATION**

Technical Manager: +91-79- 65459265/66  
Write to us: [gdipl@gdipl.com](mailto:gdipl@gdipl.com)

**Disclaimer:**

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