

EASY BRAID CO. ISOPROPYL ALCOHOL - DE-IONIZED WATER - EBIPA15 & EBIPA100

MATERIAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Isopropyl alcohol and de-ionized water EBIPA15 & EBIPA100

Manufacturer: Easy Braid Co.

11543 K-Tel Dr.

Minneapolis, MN 55343

<u>Telephone Number:</u> 952.929.3040 <u>Facsimile:</u> 952.929.2765

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SECTION 2: COMPOSITION / INFORMATION ON INGREDIENTS

Substance formal name: Propan-2-ol

Substance chemical family: Alcohol

Common name: IPA

Synonyms: Isopropanol, IPS, Dimethyl carbinol, Propanol, sec-...

CAS Number: 67-63-0

SECTION 3: HAZARDS IDENTIFICATION

<u>Human health hazards:</u> Narcotic at high vapor concentrations.

<u>Safety hazards:</u> Highly flammable. In use, may form flammable/explosive vapour/air mixture.

<u>Environmental hazards:</u> Not classified as dangerous under EU criteria.

SECTION 4: FIRST AID MEASURES

Symptoms and effects: Headache. Dizziness. Nausea. Narcosis. Dryness of the skin. Ingestion may cause

inebriation and coma. Irritation of the skin, eyes and repiratory tract.

<u>Eye Contact</u> Flush eye with water. If persistent irritation occurs, obtain medical attention.

Skin Contact Wash promptly with soap and water if available. If persistent irritation occurs, obtain medical

attention.

<u>Inhalation</u> Remove person to fresh air. If rapid recovery does not occur, obtain medical attention.

<u>Ingestion</u> DO NOT induce vomiting. If rapid recovery does not occur, obtain medical attention. Give water

to drink, providing patient is conscious.

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Advice to physicians: Dermatitis may result from prolonged or repeated exposure. Causes central nervous system

depression.

SECTION 5: FIRE FIGHTING MEASURES

Specific hazards: Hazardous combustion products may include carbon monoxide. The vapor is

More heavy than air, spreads along the ground and distant ignition is possible.

Extinguishing Media: Alcohol resistant foam, water spray or fog. Dry chemical powder, carbon dioxide, sand or earth

may be used for small fires only.

<u>Unsuitable extinguishing media:</u> Water in a jet.

<u>Protective equipment:</u> Full protective clothing and self contained breathing apparatus.

Other information: Keep adjacent containers cool by spraying with water.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions: Avoid contact with skin and eyes. Ventilate contaminated area thoroughly. Do not breathe

vapor. Extinguish naked flames. Remove ignition sources. No smoking. Avoid sparks. Evacuate the area of all non-essential personnel. Shut off leaks, if possible without personal

risk.

<u>Personal protection:</u> Wear PVC, neoprene, or nitrile rubber gloves, PVC one-piece suit with integral hood, safety

boots, rubber, knee length. Wear full face-piece respirator with organic vapor canister NPF 400. In a confined space, wear self-contained breathing apparatus open circuit type NPF 2000.

Environmental precautions: Prevent contamination of soil and water. Prevent from spreading or entering into drains, ditches

or rivers by using sand, earth, or other appropriate barriers.

Clean-up methods - small spillage:

Absorb or contain liquid with sand, earth or spill control material. Shovel up and place in a labelled, sealable container for subsequent safe disposal. Put leaking containers in a labelled drum or over-drum. Flush contaminated area with plenty of water. Retain washings as

contaminated waste.

Clean-up methods - large spillage:

Transfer to a labelled, sealable container for product recovery or safe disposal. Treat residues as

for small spillage.

Other information: Risk of explosion. Inform the emergency services if liquid enters surface water drains. Vapor

may form an explosive mixture with air. See section 13 for information on disposal.

SECTION 7: HANDLING AND STORAGE

<u>Handling:</u> Avoid prolonged or repeated contact with skin. Extinguish any naked flames. Remove ignition

sources. Avoid sparks. Do not smoke. Take precautionary measures against static discharges.

Earth all equipment. Do not empty into drains.

<u>Handling temperatures:</u> Ambient.

Storage: Tanks should be fitted with a vapor recovery system. Keep away from direct sunlight and other

sources of heat or ignition. Do not smoke in storage areas. Keep container tightly closed and in

a well-ventilated place.

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Storage temperatures: Ambient.

Product transfer: Take precautionary measures against static discharges. Earth all equipment. Avoid splash

filling.

Recommended materials: For containers or container linings, use mild steel or stainless steel. For container paints, use

zinc silicate. If diluted with de-ionized water, steel containers may be unsuitable.

<u>Unsuitable materials:</u> Most plastics, aluminium if > 50C, neoprene rubber.

SECTION 8: EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering control measures:

Use only in well-ventilated areas.

Occupational exposure standards:

<u>Respiratory protection:</u> No specific measures.

Eye protection: Mono-goggles.

<u>Body protection:</u> Standard issue work clothes. Safety shoes or boots must be chemical resistant.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Physical state: Liquid at ambient temperature.

<u>Color:</u> Clear.

Odor: Characteristic.

Initial boiling point:82°CFinal boiling point:83°CMelting point:-90°C

 Vapour pressure:
 4.3kPA @ 20°C

 Density:
 785 kg/m³ @ 20°C

 Dynamic viscosity:
 2.43 mPa.s @ 20°C

Vapour density (air = 1): $2.0 \ @ 20^{\circ}C$

Conductivity: 6 pS/m x 10⁶ @ 20°C

Flash point: 12°C (Abel) Explosion limit - upper: 12% (v/v) Explosion limit - lower: 2% (v/v) Auto-ignition temperature: 425°C Solubility in water: Complete. n-octanol/water partition coefficient: $< 3 \log P_{OW}$ Evaporation rate: (relative) 1.5 (n-Bu.Ac=1).Other properties: Molecular Weight 60.10

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SECTION 10: STABILITY AND REACTIVITY

<u>Stability:</u> Stable under normal conditions. Reacts with strong oxidizing agents. Reacts with strong acids.

<u>Conditions to avoid:</u> Heat, flames and sparks.

Materials to avoid: Strong oxidizing agents. Strong acids.

<u>Hazardous Decomposition Products:</u> None Known.

SECTION 11: TOXICOLOGICAL INFORMATION

<u>Basis for assessment:</u> Information given is based on product data.

Acute toxicity - oral: LD50 > 2000 mg/kg

Acute toxicity - dermal: LD50 > 2000 mg/kg

Acute toxicity - inhalation: LC50 > 5 mg/l

Eye irritation: Slight irritant.

Skin irritation: Slight irritant.

Respiratory irritation: Irritant in animal studies.

<u>Skin sensitization:</u> May cause skin sensitisation.

(Sub) chronic toxicity: Repeated exposure causes liver damage.

<u>Human effects:</u> Repeated exposure can lead to allergic contact dermatitis. High exposures can cause drowsiness

and dizziness. Can cause liver damage.

SECTION 12: ECOLOGICAL INFORMATION

<u>Basis for assessment:</u> Information is given on product data.

<u>Mobility:</u> Dissolves in water. Lost within a day by evaporation and dissolution. Large volumes may

penetrate soil and could contaminate groundwater.

Persistence/Degradability: Readily biodegradable. Oxidises rapidly by photo-chemicals in air.

<u>Bio-accumulation:</u> Does not bio-accumulate.

Sewage treatment: Practically non-toxic, EC50 > 100 mg/l, to organisms in sewage treatment plants.

Other information: Poses a significant risk of oxygen depletion in aquatic systems.

SECTION 13: DISPOSAL CONSIDERATIONS

<u>Precautions:</u> Refer to Section 7 before handling the products or containers.

<u>Waste disposal:</u> Recover or recycle if possible. Otherwise incineration.

<u>Product disposal:</u> Recover or recycle if possible. Otherwise incineration.

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<u>Container disposal:</u> Drain container thoroughly. After draining, vent in a safe place away from sparks and fire.

Send to drum recovery or metal reclaiming. Residues may cause an explosion hazard. Do not

puncture, cut or weld un-cleaned drums.

SECTION 14: TRANSPORT INFORMATION

<u>US Number:</u> 1219 UN Class/Packing Group: 3/II

<u>U.N. Proper shipping name:</u> ISOPROPANOL (Isopropyl alcohol)

<u>UN Number (sea transport, IMO):</u> 1219 <u>IMO Class/Packing Group:</u> 3.2/II

IMO Symbol: Flammable liquid

IMO Marine pollutant: No

IMO Proper shipping name: ISOPROPANOL (Isopropyl alcohol)

ADR/RID Class/Item: 3/3b

ADR/RID Symbol: Flammable liquid

ADR/RID Kemler number: 33/1219

ADR/RID Proper shipping name: ISOPROPYL ALCOHOL

<u>UN Number (air transport, ICAO)</u>: 1219 <u>IATA/ICAO Class/Packing Group:</u> 3/II

<u>IATA/ICAO Symbol:</u> Flammable liquid

<u>IATA/ICAO Proper shipping name</u>:ISOPROPANOL (Isopropyl alcohol)

Local regulations:

SECTION 15: REGULATORY INFORMATION

EC Label name: Isopropanol EC Classification: Highly flammable

EC Symbols: F

EC Safety phrases: S7 Keep container tightly closed

S16 Keep away from sources of ignition - no smoking.

 EINECS (EC):
 200-661-7

 EC Annex I Number:
 603-003-00-0

 MITI (Japan):
 2-207

 TSCA (USA):
 Listed

TSCA (USA): Listed
AICS (Australia): Listed
DSL (Canada): Listed

National legislation:

SECTION 16: OTHER INFORMATION

Uses and restrictions: Used in the manufacture of paints, household products and pharmaceuticals. Raw material for

acetone and MIBK.

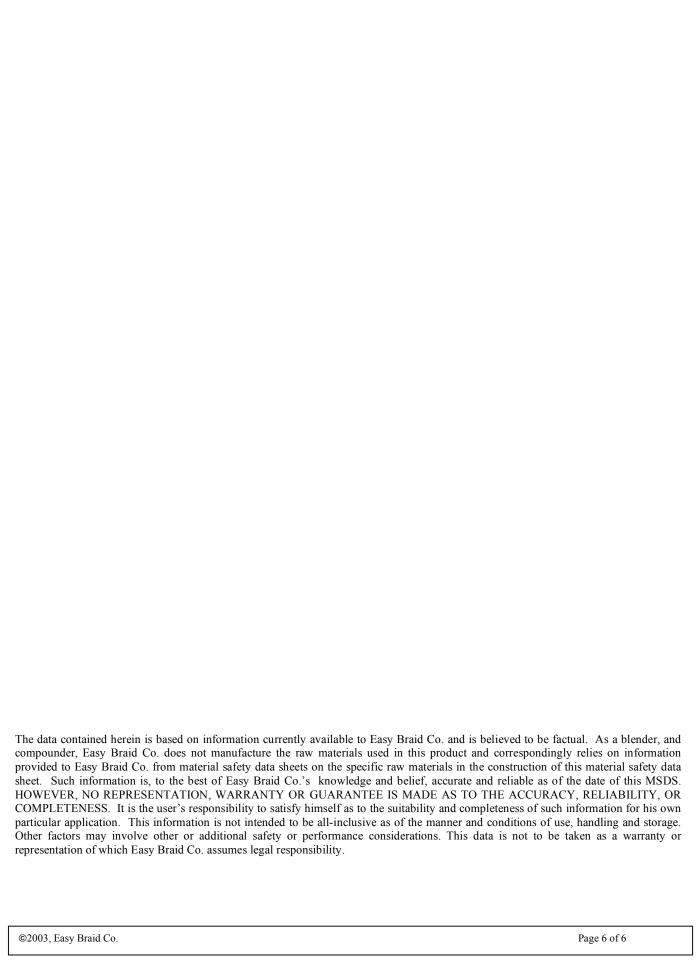
Core SDS history: Edition No: 02

First issue: 3 November 1997 Revised: 2 July 2002

Revisions highlighted:

SDS Distribution: The information in this document should be made available to all who may handle the product.

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