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MSDS

Material Safety Data Sheet

SECTION 1 - PRODUCT IDENTIFICATION AND USE

Product Identifier: **Ecosavr**

Product Use: Swimming pools, Spas Manufacturer's Name: Flexible Solutions Ltd. Street Address: 2614 Queenswood Drive

City, Province: Victoria, B.C.
Postal Code: V8N 1X5

Country: Canada

Telephone #: (250) 477 9969

24 Hour CANUTEC Emergency: (613) 996 6666 Regarding IPA exposure

SECTION 2 - HAZARDOUS INGREDIENTS

Exposure Limits, PPM

OSHA ACGIH Other

Component % PEL TLV Limit

Hazard

ISOPROPYL ALCOHOL 1) 80-90 400 400 500

flammable

CAS No. 67-63-0 VW&R Code: P1238

SECTION 3 - PHYSICAL DATA

Boiling Point, Deg F: 181 Vapor Pressure, mmHG/20 Deg C: 23
Melting Point, Deg F: -127 Vapor Density: 2.07

Specific Gravity: 0.79 (air = 1) Water Solubility, %:

(water = 1)
Appearance/Odor: Clear, colorless liquid

r: Clear, colorless liquid Evaporation Rate: 3

medical alcoholic odor (Butyl Acetate = 1)

SECTION 4 - FIRE AND EXPLOSION DATA

Flash Point, Deg F: 53

Flammable limits in air, %: lower 2%; upper 12%

Method used: TCC

Extinguishing Media: Use water spray, dry chemical, CO₂, or alcoholic foam.

Do **NOT** use a direct water stream.

Special fire fighting procedures: Fire fighters should wear self-contained breathing apparatus and full protective clothing.

Use water spray to cool nearby containers and structures exposed to fire.

100

Unusual fire and explosion hazards: Extinguish all nearby sources of ignition because vapors may be moved by air currents to ignition

sources distant from the handling point.

SECTION 5 - REACTIVITY DATA

Stability: stable
Polymerization: will not occur

Conditions to avoid: Strong oxidizers, aluminum, acetaldehyde, ethylene oxide, hydrogen-palladium combination,

¹⁾ Common names/Synonyms: isopropanol; 2-Propanol; Dimetyl Carbinol; IPA

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 h_20 - h_2so_4 combination, Hypochlorous acid, isocyanates, nitroform, phosgene, oleum, perchloric acid, potassuim T-butoxide, acids, alkalis, amines, halogens, halogen compounds, anhydrides and aldehydes.

Hazardous decomposition products: May liberate carbon monoxide or carbon dioxide.

SECTION 6 - TOXICOLOGICAL PROPERTIES

Oral: Rat LD50 = 5840 mg/kg

Human lethal dose: 250ml

Dermal: Rabbit LD = 13g/kgInhalation: Rat LC = 16,000 ppm/8hr

Carcinogenicity: This material is not considered to be carcinogen by national toxicology program, the international agency for

research on cancer, or the occupational safety and health administration.

Other date: none

SECTION 7 - PREVENTATIVE MEASURES

Ventilation: Local mechanical exhaust ventilation capable of maintaining emissions at the point of use below the

pel.

Respiratory protection: If use conditions generate vapors or mists, wear a Niosh-approved respirator appropriate for those

emission levels. Appropriate respirators may be full facepiece or a half mask air purifying cartridge respirator equipped for organic vapors/mists, a self-contained breathing apparatus in the pressure

demand mode, or a supplied-air respirator.

Eye protection: Chemical goggles unless a full facepiece respirator is also worn. It is generally recognized that

contact lenses should be not worn when working with chemicals because contact lenses may

contribute to the severity of an eye injury.

Protective clothing: Long-sleeved shirt, trousers, safety shoes, rubber gloves and rubber apron.

Other protective measures: An eyewash and safety shower should be nearby and ready for use.

SECTION 8 - FIRST AID MEASURES

If inhaled: Remove to fresh air. Give artificial respiration if not breathing. Get immediate medical attention. In case of eye contact: Immediately flush eyes with lots of running water for 15 minutes, lifting the upper and lower eyelids

occasionally. Get immediate medical attention.

In case of skin contact: Immediately wash skin with lots of soap and water. Remove contaminated clothing ans shoes (wash before

reuse). Get medical attention if irritation persists after washing.

If swallowed: Do not induce vomiting. Small amounts of this liquid drawn into the lungs from swallowing or vomiting may

cause severe health effects (eg. bronchopneumonia or pulmonary edema). Seek medical attention

immediately.

SECTION 9 - PREPARATION DATE OF MSDS

Prepared by: Flexible Solutions Ltd.
Phone Number: (250) 477 9969
Date: 01/2005

NOTICE TO READER

To the best of our knowledge, the information contained herein is accurate. However, neither the above named supplier nor any of its subsidiaries assumes any liability whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exists.