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Date of preparation: 6th August 2007

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 PRODUCT DETAILS:

Product name

Isopropyl Alcohol

Chemical name Other name

2-Propanol Isopropanol

Chemical formula

(CH₃)₂CHOH

Chemical family

Alcohol

1.2 **COMPANY IDENTIFICATION**

Manufacturer

Craftiviti Sdn Bhd

Supplier

D-1-46, 1st Floor, Block Dahlia, 10 Boulevard,

SPRINT Highway, PJU 6A, Petaling Jaya, 47400

Selangor, Malaysia.

enquiry@craftiviti.com

Emergency telephone number

+(603) - 74995553

SECTION 2: COMPOSITION / INFORMATION ON INGREDIENT

Chemical name

CAS No.

Proportion

Isopropyl Alcohol

67-63-0

100 %

SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

Appearance

Odor

Clear liquid Aromatic

Solubility in water

Completely

Boiling point

62-83 °C

Melting point

- 88 °C

Vapor pressure

33 mmHg @ 20 °C

Evaporation rate (n-Butyl asetate =1)

1.5

Vapor density

2.0 (Air = 1.0)0.786 @ 20°C

Specific gravity

Flash point

- 11.7 °C

Autoignition temperature

480 °C

No data

Flammable Limit

2 - 12 % Volume

SECTION 4: HAZARD IDENTIFICATION

Safety

Highly Flammable.

Potential Health Effects

EYE

: May cause irritation.

SKIN

: Prolonged exposure may cause skin Irritation.

INGESTION INHALATION

: May cause headache, drowsiness, unconsciousness and fatal : May cause initation of the respiratory system.

SECTION 5 : FIRST AID MEASURES

EYE

: Immediately flush eyes with plenty of water for at least 15 minutes.

Get medical attention.

SKIN

: Wash with soap and water. Get medical attention if irritation develops or persists.

INGESTION

: Do Not induce vomiting. Keep at rest. Get prompt medical attention.

INHALATION

: Remove to fresh air. Give artificial respiration if not breathing. Oxygen may be given if necessary. If

signs and symptoms of toxicity persist, call a physician.

SECTION 6: FIRE FINGHTING MEASURES

FLAMMABLE PROPERTIES:

Flammable. Material will readily ignite at ambient temperatures.

Colourless vapors may travel considerable distance to Ignition sources and cause flash fires or explosions.

HAZARDOUS COMBUSTION PRODUCTS

Carbon dioxide and some carbon monoxide

EXTINGUISHING MEDIA

Alcohol resistant foam, carbon dioxide, and dry chemical

FIRE FIGHTING INSTRUCTIONS

Water can be used to cool fire-exposed containers, to protect personnel and to disperse vapours and spills.

SECTION 7: ACCIDENTAL RELEASE MEASURE

LAND SPILL

Eliminate source of ignition. Keep public away. Prevent additional discharge of material, if possible to do so without hazard. Prevent spills from entering sewers, watercourses or low areas. Contain spilled liquid with sand or earth. Do Not use combustible materials such as sawdust. Recover by pumping (use an explosion proof motor or hand pump), or by using a suitable absorbent.

WATER SPILL

Eliminate sources of ignition. Warn occupants and shipping in surrounding and downwind areas of fire and explosion hazard and request all to stay clear. Remove from surface by skimming or with suitable absorbents. If allowed by local authorities and environmental agencies, sinking and/or suitable dispersants may be used in unconfined waters.

SECTION 8: HANDLING AND STORAGE

HANDLING

Avoid contact with eyes. Keep container closed. Use only in a well-ventilated area. Wash thoroughly after handling. Avoid prolonged or repeated contact with skin. Use grounding and bonding connection when transferring material to prevent static discharge, fire or explosion. Use spark proof tools and explosion proof equipment.

STORAGE

Store in well-ventilated area. Keep away from heat, sparks, and flame. Emptied containers may retain product residues. Precautions apply to emptied containers.

SECTION 9: EXPOSURE CONTROL AND PERSONAL PROTECTION

ENGINEERING CONTROL

Control airborne concentrations below the exposure limits. Use only with adequate ventilation. Local exhaust ventilation may be necessary. Lethal concentrations may exist in area with poor ventilation.

RESPIRATORY PROTECTION

When respiratory protection is required, or concentrations are unknown use approved air-purifying respirator equipped with organic vapour cartridges or canisters. For emergency and other conditions where exposure limit may be greatly exceeded, use an approved positive-pressure, self-contained breathing apparatus or positive-pressure airline with auxiliary self-contained air supply.

SKIN PROTECTION

For brief contact, no precautions, other than clean body-covering clothing should needed. Use impervious chemical resistant gloves.

EYE PROTECTION

Use chemical goggles. If vapour exposure causes eye discomfort, use a full-face, supplied-air respirator.

SECTION 10: STABILITY AND REACTIVITY

CHEMICAL STABILITY

(CONDITIONS TO AVOID) Keep away from flames and spark-producing equipment. Stable.

INCOMPATIBILITY

Avoid strong oxidizing agents

HAZARDOUS DECOMPOSITION PRODUCTS

Carbon monoxide

HAZARDOUS POLYMERIZATION

Will not occur

SECTION 11: TOXICOLOGICAL INFORMATION

LC50 (rat) Inhalation

: 22500 ppm

LD50 (rat) Oral

: 5810 mg/kg

LD 50 (rabbit) Oral

: 7800 mg/kg

TWA (8 hours)

: 400ppm (983mg/m3)

Ceiling limit

: nll

SECTION 12: ECOLOGICAL INFORMATION

Prolonged or repeated contact may cause chronic dermatitis, chemical pneumonitis. Appreciable evaporation to air is expected in the environment.

SECTION 13: DISPOSAL INFORMATION

Preferred method is inclneration or biological treatment in approved facility.

SECTION 14: TRANSPORT INFORMATION

Transport Document Name

HIGHLY FLAMMABLE, LIQUID, n.o.s. (Isopropyl Alcohol: 3, UN 1219, II).

UN No.

1219

Class

Packaging Group

3

SECTION 15: REGULATORY INFORMATION

In accordance to Occupational Safety and Health (Classification, Packaging and Labelling of Hazardous Chemicals) Regulations 1997

Risk Phrase:

R11

Highly flammable

R20/22

Harmful by inhalation and if swallowed Irritating to eyes and respiratory system

R36/37 Safety Phrase:

S16

Keep away from sources of ignition - No Smoking

S23

Do not breathe vapour

\$24/25

Avoid contact with skin and eyes

S43

In case of fire, use chemical powder or foam

SECTION 16: OTHER INFORMATION

This information supersedes CSDS/S-09-E-2 dated 3rd July 2003.

Source of Data :-

MSDS of Material Manufacturers

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