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RICA MARKETING SDN. BHD.

CHEMICAL SAFETY DATA SHEET

SECTION 1: CHEMICAL PRODUCT AND COMPANY IDENTIFICATION ______

Product Details 1.1

Trade Name

Chemical Name

Zinc chromating chemicals

Chemical Formula **Molar Mass**

Proprietary

Tri-Mate 8370

Chemical Family Manufacturer's Code NA NA NIL

Use

Industrial

1.2 Company Identification

Manufacturer's Name and Address

: Rica Marketing Sdn. Bhd.

7, Jalan Taming 3, Taman Taming Jaya Off Jalan Balakong, 43300 Selangor,

E-Mail

: rica@po.jaring.my

Telephone Number Emergency Telephone Number : 03-8961 4950 : 03-8961 4950

Contact Point / Persons 1.3

Designation

Laboratory

Tel. No

03-89614950

Person in-charge

Mr S.H. Chia Mr Micheal Cheah

Tel. No

Cobalt Nitrate

Rev: 00

03-8961 4950

SECTION 2: COMPOSITION / INFORMATION ON HAZARDOUS INGREDIENTS ______

Toxicity Data TLV Chemical Name CAS no. Proportion **Exposure Limit** less than 60% ACGIH: TWA 0.5mg N/A **Chromium Nitrate** 7789-02-8

Cr/m3 Cr (NO₃)₃ 9H₂O

:

LD_{so}:691mg/kg

10141-05-6 less than 5% (oral mouse)

Date of prepare: 02/09/09

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SECTION 3: PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Dark bluish green liquid

Odour : NA

Solubility at 28°C : Mixable with water in all proportions

Boiling Point : More than 100°C

Melting Point (°C) : NA
Vapour Pressure (mm of Hg at 25°C) : NA
Percentage Volatiles : NA
Evaporation Rate : NA
Vapour Density : NA

Specific Gravity at 28°C : 1.165 – 1.190

Flash Point : NA
Auto-ignition Temperature : NA
Flammable limit (%) : NA
Other properties if applicable : ---

SECTION 4: HAZARD IDENTIFICATION

Most important hazards: Corrosive, Oxidising

SECTION 5: FIRST AID MEASURES

Inhalation : Remove to fresh air area with well ventilation

Eye contact : Immediately flush with large amounts of water for at least 15 min while

holding eyelids apart. Washing within 5 min is essential for maximum

effectiveness. Call a physician immediately.

Skin contact : Wash affected area thoroughly with water. Remove contaminated

clothing and launder before reuse. If irritation develops, get medical

attention

Ingestion : Never give anything by mouth to an unconscious person. Induce

vomiting immediately by giving two glasses of water and sticking finger

to throat. Call a physician immediately.

Notes to physician : May aggravate allergies, dermatitis and sinus disease on prolonged

exposure

SECTION 6: FIRE FIGHTING MEASURES

Extinguishing Media : Use water spray, foam, dry chemical or carbon dioxide

Fire Fighting instruction : Wear proper protective equipment and SCBA with full face piece

operating in positive pressure mode. Move bags / containers from fire area if it can be done without risk. Cool containers

with water.

Special hazards : During a fire, irritating and highly toxic gases may be generated

so that if possible, move container from fire areas if it can be done

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SECTION 7: ACCIDENTAL RELEASE MEASURE

Leak / Spill: Evacuate area. Wear rubber boots, rubber gloves and rubber protective clothing

and goggles. Neutralize with alkali to pH 6-8. Wash with plenty clean water.

SECTION 8: HANDLING AND STORAGE

Handling : Wear rubber gloves and other protective clothing

Storage : Keep away from strong alkali and other oxidizing chemicals. Store in a

Cool dry place with good ventilation. Keep away from food.

SECTION 9: EXPOSURE CONTROL AND PERSONAL PROTECTION

a. Exposure limit : ACGIH: TWA 0.5 mg (Cr) / m3

b. Engineering measures: Use with local exhaustion ventilation

c. Personal protection : Wear rubber gloves and protective clothing

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid : Avoid high heat or flame

Incompatibles : Avoid contact with combustible material and strong alkali, may

cause fire.

Decomposition Products : oxygen Hazardous polymerization : Will not occur

The product is considered a stable material under normal and anticipated storage and handling

conditions

SECTION 11: TOXICOLOGICAL INFORMATION

Toxicity Data : High toxicity after inhalation. Inhalation causes irritation to mucous

membranes and can result in ulceration or perforation of the nasal

sectum. Can be absorbed into the skin and cause systemic

poisoning and subsequently kidney failure.

Animals Rats : LD₅₀ oral, 52 mg / kg

Rabbit 24hr : LD₅₀ thermal, 57 mg / kg Rat, inhalation: LD₅₀ (4hr) I, 217 mg / kg

Carcinogenicity : NTP: No IARC: NA OSHA: NA

Reproductive Effect : NA

Effects of overexposure : Serious local itching effect on skin, eyes and mucous membranes.

Vapour irritates the respiratory organs.

Chronic effects : NA

Target organs : Respiratory systems, nasal, septum, skin, eyes and teeth

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SECTION 12: ECOLOGICAL INFORMATION

The chemicals have highly toxic effect on fish and plankton. The toxicity limit depends on species and size of organism, and on water quality (hardness, purity, oxygen content etc.)

SECTION 13: DISPOSAL INFORMATION

Disposal method in accordance with all applicable national environment laws and regulations.

Destroy chromic acids solution with sodium metabisulfite and neutralize pH to neutral and dispose material in accordance with federal regulations.

SECTION 14: TRANSPORT INFORMATION

Transport: IMDG code: 5.1

UN No : 1463

ICAO/IATA-DGR: 5.1 / 1463

GGVE/ GGVS / RID / ADR

Other information: MFAG table No: 215 EMS table No: 6.1 - 04

SECTION 15: REGULATORY INFORMATION

This product has to be marked as a preparation according to the order of dangerous goods as provided in appendix:

Contains

: Chromium nitrate

CAS No: 7789-02-8

Danger: Oxidising

and Corrosive

Cobalt nitrate

CAS No: 10141-05-6

Risk phrases :

35

Contact with combustible material may cause fire

Causes severe burns

43

May cause sensitization by skin contact

Safety phrases:

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Do not empty into drains

26/28

In case of contact with eyes/skin, rinse immediately with plenty

of water and seek medical advice

36/37/39

Wear suitable protective clothing, gloves and eyes/face

protection

Shelf Life

: 24 months from date of manufacture for unopened containers.

SECTION 16: OTHER INFORMATION _____

This product is intended for use as chemical surface treatment and Rica undertakes no liability for other applications. The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.