

MATERIAL SAFETY DATA SHEET

Introductory Details

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Date of preparation : 30 November 2007

SECTION 1 : CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 Product Details

Product Name : KINETIC
Trade Name : KINETIC
Chemical Name : Mixture of surfactants
Chemical Formula : -
Molar Mass : -
Chemical Family : Nonionic surfactants
Manufacturer's Code : -
Use : Bioactivator

1.2 Company Identification

Manufacturer : Available upon request

Importer/Distributor

Name and Address : Agricultural Chemicals (M) Sdn. Bhd.
962, Lorong Perusahaan 8, Taman Perindustrian Perai,
13600 Perai, Pulau Pinang, Malaysia.
Telephone Number : 604-390 7988
Emergency Telephone Number : 604-390 7988

1.3 Contact Point

Designation : Ms. Cheong Wai Ching, Product Support Manager /
En. Ahmad Labib bin Yusof, Administrative Assistant
Tel. No. : 604-390 7988

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SECTION 2 : COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	Proportion	Exposure Limit	Toxicity Data
Proprietary blend of polyalkyleneoxide modified polydimethylsiloxane and nonionic surfactant Note: This product contains organosilicone surfactants.	Not applicable, formulated mixture	100.00	TLV 15 mg/m ³	Refer Section 11

SECTION 3 : PHYSICAL AND CHEMICAL PROPERTIES

Appearance	: Clear, water white liquid
Odour	: Surfactant odour
Solubility	: Dispersible
Boiling Point	: > 150°F
Melting Point (°C)	: Not applicable
Vapour Pressure	: < 1 mm/Hg
Percentage Volatiles	: < 0.1
Evaporation Rate	: < 1
Vapour Density	: > 1
Specific Gravity	: 1.02 – 1.04 gms/cc
Flash Point	: 240°F (PMCC)
Autoignition temperature	: Not determined
Flammable limit (%) and	: Not determined

SECTION 4 : HAZARD IDENTIFICATION

Irritating to eyes and skin

SECTION 5 : FIRST AID MEASURES

Ingestion	: Drink a large amount of water. Induce vomiting and immediately call a physician. Do not induce vomiting or give anything by mouth to an unconscious person.
Eye contact	: Immediately flush eyes with water, continuing for at least 15 minutes. Obtain medical attention if irritation persists.

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- Skin contact : Remove contaminated clothing and wash skin with plenty of soap and water. Call a physician if irritation persists or develops.
- Inhalation : Move to fresh air. Obtain medical attention if breathing becomes difficult. No emergency care anticipated.
- Notes to physician : There is no specific antidote for this material. Treatment should be directed toward control of the symptoms and the clinical condition of the patient.

SECTION 6 : FIRE FIGHTING MEASURES

- Extinguishing Media : Foam, Carbon dioxide, dry powder.
- Fire fighting instruction : Use self contained breathing apparatus and full protective equipment. Avoid breathing fumes. Avoid spraying a solid stream of water or foam directly into a pool of hot, burning liquid as this may cause frothing.
- Special hazards : No data available

SECTION 7 : ACCIDENTAL RELEASE MEASURE

Leak and/or Spill :

Wear protective clothing as indicated in Section 9. Evacuate non essential personnel. Keep all sources of ignition away from the spillage. Contain and adsorb the spillage with inert material such as clay or earth. Collect into waste container. Wash the contaminated area with a little water and detergent. Contain and adsorb the slurry with inert material and collect into the same container. Seal the container and send for disposal. Prevent the spillage from entering local drainage system.

SECTION 8 : HANDLING AND STORAGE

- Handling : Handle with care. Wear suitable protective clothing, PVC gloves, goggles, apron and safety shoes etc. Read the label before use. Do not contaminate water supplies, lakes, streams or ponds with this material or with rinsate from containers or equipment. Avoid contact with skin or clothing and avoid breathing vapors.
- Storage : Store in original container, tightly closed, away from feeds and foodstuffs. Only use with adequate ventilation. Keep out of reach of children.

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SECTION 9 : EXPOSURE CONTROL AND PERSONAL PROTECTION

- a. Exposure Limit : TLV 15 mg/m³
b. Engineering measures : Local exhaust ventilation
c. Personal protection : Wear suitable protective clothing, PVC gloves, goggles, apron and safety shoes etc.

SECTION 10 : STABILITY AND REACTIVITY

- Conditions to avoid : Direct sunlight, heat and extreme temperature
Incompatible : No data available
Decomposition Products : No data available
Hazardous polymerization : Will not occur
Hazardous combustion : May produce carbon dioxide, carbon monoxide and oxides of silicon under fire conditions.

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicity Data :

- Swallowing : Slightly toxic. Acute Oral LD50 (rat) = 3,343 mg/kg. Ingestion may cause nausea, abdominal discomfort, vomiting and diarrhea.
Skin absorption : Acute Dermal LD50 (rabbit) > 2,020 mg/kg. No toxic effects anticipated from skin absorption based on current data.
Inhalation : No Acute Inhalation LC50 is available since no fatalities occurred at the highest atmospheric concentration achievable in the study.
Skin contact : May cause slight skin irritation after repeated or prolonged contact.
Eye contact : May cause mild eye irritation after direct contact.
Carcinogenicity : No data available
Reproductive Effect : No data available
Effects of overexposure : No data available
Chronic effects : Long term effects of overexposure include activity decrease, nasal discharge, polyuria, respiratory gurgle and salivation.
Target organs : No data available
Medical Conditions Generally Aggravated by exposure : No data available

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SECTION 12 : ECOLOGICAL INFORMATION

Mobility & Bioaccumulation : No data available
Biodegradability : No data available
Aquatic Toxicity : No data available

SECTION 13 : DISPOSAL INFORMATION

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

SECTION 14 : TRANSPORT INFORMATION

Follow all local regulations on transportation.

Shipping Information

Shipping name : Not regulated by DOT, IATA or IMDG.
Hazard Class : None
Identification No : None
Labels Required : None required
Placarding : None
Freight Class : Adhesive, Adjuvant, Spreader or Sticker, Liquid, NOIBN (NMFC Item 4610, Class 60)
Chemical Name : Not applicable
Equivalent R.Q. : Not applicable

SECTION 15 : REGULATORY INFORMATION

CPL Regulations : Class - Irritant
Risk Phrase : R36/38 Irritating to eyes and skin
Safety Phrase : S2 Keep out of reach of children
S25 Avoid contact with eyes
S36/37/39 Wear suitable protective clothing, gloves and eyes/face protection

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SECTION 16 : OTHER INFORMATION

National Fire Protection Association Rating:
(Rating level: 4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

Health: 2 Fire: 1 Reactivity: 0

S.A.R.A. Title III Hazard Classification: (Yes/No)

Immediate (Acute) Health	: Y	Delayed (Chronic) Health	: N
Sudden Release of pressure	: N	Fire	: N
Reactive	: N		

Reference : (a) Material Safety Data Sheet - Kinetic
 From Helena Chemical Company 03-JUL-2006 14:03:50

- (b) Guidelines for The Classification of Hazardous Chemicals - DOSH 1997
- (c) Guidelines for The Formulation of A Chemical Safety Data Sheet - DOSH 1997
- (d) Guidelines for Labelling of Hazardous Chemicals - DOSH 1997

To the best of our knowledge, the information contained herein is accurate. However, we cannot assume any liability whatsoever for the accuracy or completeness of the information contained herein.