

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Eka Chemicals Ltd.

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Tel: 01934 522244

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Product Name : KEYDIME D1

Product Type : Cationic aqueous dispersion of alkyl ketene dimers.

Intended Use : Sizing for paper, wet end and surface applications.

Emergency contact: UK Emergency Advice, Tel: 07767 892053
Emergency Response Center, Tel: Int + 46 8 337043

2. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Hazardous ingredient</u>	<u>CAS nr.</u>	<u>Content</u>	<u>R-phrases</u>	<u>Classification</u>
Alkyl Ketene Dimer. (Refer to section 11)	84989-41-3	> 1%	R43	Xi

3. HAZARD IDENTIFICATION
Hazard Classification:
Summary: In view of the nature of the product and the manner in which it is stored and handled, the most likely exposure routes are by skin and eye contact. The product may cause slight eye and skin irritation.

Environmental Classification: See section 12 "Ecological Information".

4. FIRST AID MEASURES
Inhalation: Remove patient to fresh air and seek medical attention if breathing becomes difficult.

Skin Contact: Wash off contamination with soap and water. Seek medical attention if irritation persists. Remove all contaminated clothing which should be laundered before reuse.

Eye Contact: Immediately wash eye thoroughly with water whilst separating the eyelids. Seek medical attention if the symptoms persist.

Ingestion: Rinse mouth and drink water. If large quantities have been swallowed, obtain medical attention. DO NOT INDUCE VOMITING.

Medical Note: None.

5. FIRE-FIGHTING MEASURES

Extinguishing Media: Does not present a fire hazard.

Special Protective Equipment: None.

Unsuitable Extinguishing Media: Not applicable.

Special Exposure Hazards: None.

6. ACCIDENTAL RELEASE MEASURES

Large Spillages: Contain and adsorb with sand or earth. Transfer to a suitable container for disposal. Prevent the product from reaching sewage and water courses in large quantities.

Small Spillages: As for large spillages.

Personal Protection: Goggles, rubber/PVC gloves and full working clothes recommended.

7. HANDLING AND STORAGE

Handling: Handle and store in well ventilated conditions as product contains traces of toluene as an impurity.

Storage: Store in polythene-lined mild steel drums, polyethene drums, plastic, glass and stainless steel. Store between 5 and 25°C. Protect from freezing.

Materials to Avoid: Mild steel.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Personal Protection

Respiration: Not applicable under normal conditions of use. However, good ventilation should be provided in working areas.

Skin Contact: Rubber/PVC gloves and full working clothes recommended. Contaminated clothing should be laundered before re-use.

Eye Contact: Goggles and eyewash station recommended.

9. STABILITY AND REACTIVITY

Hazardous Decomposition: None.

Conditions to Avoid: Frost may lead to container rupture and leakage.

Materials to Avoid: None known.

Hazardous Reactions: None.

10. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE

Form:	Liquid
Colour:	White
Odour:	Slight fatty odour.

SAFETY RELEVANT DATA

pH:	2.5 to 3.5 (commercial product)
Melting\Boiling Point:	mpt 0°C, bpt 100°C.
Viscosity:	< 100 cP.s (Brookfield)
Flash Point:	> 180°C
Autoflammability:	Will not auto ignite.
Vapour Pressure:	As water.
Density:	Circa 1 g/cm ³ (20°C)
Bulk Density:	Not applicable.
Solubility:	Infinitely dispersible in water.
Partition Coefficient:	Not known.
Air Contamination limits:	No information.
Explosion Properties:	Not applicable.

11. TOXICOLOGICAL INFORMATION

** Estimated from analogous data*

Acute Toxicity: LD50 (oral, rat) >2000 mg/kg. *

IRRITATION DATA

Skin: May cause slight irritation. *

Eyes: May cause slight irritation. *

Sensitisation Data: Tests on the commercial product have shown it not to be a sensitizer by skin contact. (Guinea-Pig Maximization Test, OECD 406) *

Long Term Effects: No information.

Additional Information: Inhalation of aerosols or mist may cause irritation to the respiratory passages due to the low pH.

12. ECOLOGICAL INFORMATION
** Estimated from analogous data*

Biodegradability: No information. COD: 169 mg/g*, BOD (5 days): 2 mg/g*, BOD (20 days): 20 mg/g*.

Aquatic Toxicity: Harmful to fish, LC50 (Rainbow trout) estimated at 1.0 mg/l.

Other Information: No information.

WGK Value: Not known

13. DISPOSAL CONSIDERATIONS

Product Disposal: Obtain advice from local authorities.

Packaging Disposal: As for product.

Waste Catalogue No: Not known

14. TRANSPORT INFORMATION

Summary: Not classified as dangerous for transport.

UN Number: - **Sea Transport (IMDG):** -

Road Rail (ADR/RID): - **IATA/ICAO(Air):** -

Proper Shipping Name

Goods Description:

15. REGULATORY INFORMATION

EEC Classification: Not classified as dangerous under Council Directive 88/379/EEC.

SYMBOL

R-phrases: -

-

S-phrases: -

16. OTHER INFORMATION
Disclaimer

The information provided in this safety data sheet relates only to this specific product and may not be valid for the product if used with other materials in any process. The information is, at the time of publication, to the best of the Company's knowledge and belief, accurate and reliable. However, no warranty, guarantee or representation is made as to its accuracy, reliability or completeness. It is the user's responsibility to satisfy himself as to the suitability for his own purpose.

Reference: 020-1/6