

MATERIAL SAFETY DATA SHEET

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1. CHEMICAL PRODUCT IDENTIFICATION

Product Name (Trade Name):	NIKKOL RETINOL H10		
Common Chemical Name:			
Product Code (Supplier):	NIKKO CHEMICALS CO., LTD.		
INCI Name:	wt%	CAS Number	EINECS Number
Hydrogenated Retinol	10	Yet to establish.	Yet to establish.
CAPRYLIC/CAPRIC TRIGLYCERIDE	90	65381-09-01	265-724-3
UN Class/UN Number:	Not applicable.		

2. COMPOSITION/INFORMATION ON INGREDIENTS

Substance/Mixture:	Mixture.		
Information on hazardous ingredients:			
Chemical Name	%	CAS Number	EINECS Number

3. HAZARD IDENTIFICATION

Name of Class:	Not applicable.
Potential Physicochemical Effects:	Use caution with ignition sources because this product is combustible.
Potential Health Effects:	May cause irritation to the skin, eyes and respiratory tract.
Potential Environmental Effects	No information that should be described.

4. FIRST AID MEASURES

Eye contact:	Flush with clean running water for at least 15 minutes, then seek medical attention.
Skin contact:	Flush with large amounts of water and soap. If symptoms develop, get medical attention.
Inhalation:	Move to fresh air and keep victim lying down and quiet. Seek medical attention, if necessary.
Ingestion:	Wash mouth out with water and let drink one or two glasses of water or milk, unless unconscious.. Seek a doctor immediately.

5. FIRE FIGHTING MEASURES

Extinguishing Media:	Dry chemical. Foam. Carbon dioxide. Sand.
Special Firefighting Procedures:	Use appropriate extinguishers shutting the supply of combustible substances to the fire. Perform the firefighting in a well-ventilated area.
Hazardous Thermal Decomposition Products:	None
Protection of Firefighters:	Wear suitable protective gloves, clothing and eye glasses. In case of insufficient ventilation, wear suitable respiratory equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions:	Wear proper protective equipment, including eye glasses and gloves to avoid direct contact.
Environmental Precautions:	Do not allow spillage to enter sewer system or waterway.
Methods of cleaning up	Scoop or sweep up and collect in suitable containers. If remaining residue is very small in amount, wash it away with large amounts of water.

7. HANDLING AND STORAGE

Handling:	Use and handle in a well-ventilated area. Wear proper protective equipment, including eye glasses and gloves to avoid direct contact. Wash hands and face thoroughly and rinse mouth after handling. Keep away from all sources of ignition.
Storage:	Keep container tightly closed and store in a well-ventilated area. Keep away from all sources of ignition.

8. EXPOSURE CONTROL/PERSONAL PROTECTION

Administrative Control Level:	Not established.
Threshold Limit Value:	
JSOH (Japan Society for Occupational Health):	Not established.
ACGIH:	Not established.
Engineering Control:	Local exhaust ventilation system is necessary at workplaces where fine dust particles are generated. Install emergency eyewash and shower facilities near the places where this product is handled or used.
Personal Protective Equipment:	
Respiratory System Protection:	Dust mask with filter, if necessary.
Eye Protection:	Eye goggles, with side shields.
Skin and Body Protection:	Protective clothing with long sleeves.
Hand Protection:	Impermeable gloves.

9. PHYSICAL AND CHEMICAL PROPERTIES

Description:	Colorless to pale yellow oily liquid.
Specific Gravity (25°C):	0.935 ~ 0.945
Melting Point:	No data.
Boiling Point:	No data.
Solubility:	No data.
pH	No data.

10. STABILITY AND REACTIVITY

Flash point:	No data.
Autoignition Temperature:	No data.
Explosive Limit:	No data.
Oxidizing Properties:	No data.
Reactivity:	Not reactive with water under normal conditions.
Hazardous Polymerization:	Will not occur under normal conditions.
Self-reactivity/Explosivity	No data.

11. TOXICOLOGICAL INFORMATION

Skin Corrosivity:	No data.
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Primary skin irritation:	Not an irritant. (43 human, closed patch test, 10% solution.)
Eye Irritation:	No data.
Acute Toxicity:	No data.
Phototoxicity:	No phototoxicity. (3T3-NR Method: Mouse 3T3 fibroblast)
Sensitization:	Not a sensitizer. (Undiluted solution to 53 human.)
Mutagenicity:	Not mutagenic. (According to AMES test).
Carcinogenicity:	
IRAC:	Not established.
NTP:	Not established.

12. ECOLOGICAL INFORMATION

No data is available.

13. DISPOSAL CONSIDERATIONS

Method of Disposal:	Burn in a proper incinerator or request disposal to a locally-licensed waste disposal contractor.
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14. TRANSPORT INFORMATION

Precautions for Transportation:	Before transportation, make sure containers have no cracks, corrosions or leaks. Load containers securely to prevent sliding, falling or collapsing.
Land –Road/Railway	This product is not classified according to ADR/RID
Inland Waterways	This product is not classified according to ADN
Sea	This product is not classified according to IMDG
Air	This product is not classified according to IATA

15. REGULATORY INFORMATION

Fire Service Law:	Class 4, Type 4 Petroleum
Industrial Safety and Health Law:	Not applicable.
The Poisonous and Deleterious Substance Control Law:	Not applicable.
Enforcement Regulations of Japan Port Regulations Law:	Not applicable.
PRTR Law:	Not applicable.

16. OTHER INFORMATION

History	
Revised from issue	December 20, 2006

The information given herein is supposed to describe the product with regard to necessary safety precautions. They do not guarantee special characteristics and are made to the best of our current knowledge.
