

MATERIAL SAFETY DATA SHEET

SECTION I

MANUFACTURER'S NAME

NIPPON OIL CO., LTD.

EMERGENCY TELEPHONE NUMBER

03-3502-9161

TELEPHONE NUMBER FOR INFORMATION

03-3502-1111


ADDRESS

3-12, Nishi Shimbashi 1-chome, Minato-ku, Tokyo, 105 Japan

DATE PREPARED

Dec. 18, 1991

SIGNATURE OF PREPARER



TRADE NAME AND SYNONYMS

INK OIL BASE No. 11

CHEMICAL NAME AND SYNONYMS

Mineral oil

WARNING STATEMENT

CAUTION: Prolonged or repeated inhalation of fumes or contact with skin may cause irritation in some cases.

SECTION II TYPICAL COMPOSITION

Mineral oil

100%

Notes: This material is listed in TSCA chemical substance inventory.
It is reported by IARC that this material is carcinogenic for human.

SECTION III EXPOSURE STANDARD

No OSHA exposure or ACGIH Threshold Limit Value (TLV) has been established for this material.

The suggested TLV is 5 mg/m³ for a daily 8-hour exposure.

This is the OSHA exposure standard and the ACGIH TLV (1990~91) for mineral oil mists.

SECTION IV OCCUPATIONAL CONTROL PROCEDURES

Eye protection:	Chemical type goggles or face shield optional.
Skin protection:	Avoid prolonged or frequently repeated skin contact by wearing impervious protective clothing including gloves.
Respiratory protection:	No special respiratory protection is normally required.
Ventilation:	No special ventilation is usually necessary. However, if operating conditions create high airborne concentrations of this material, special ventilation may be needed.
Other clothing and equipment:	No special clothing or equipment is usually necessary.
Work practices, hygienic practices:	No information is available.
Other handling and storage requirements:	No information is available.
Protective measures during maintenance of contaminated equipment:	No information is available.

SECTION V HEALTH HAZARD INFORMATION

SYMPTOMS OF OVEREXPOSURE FOR EACH POTENTIAL ROUTE OF EXPOSURE

Inhalation:	Not expected to be acutely toxic by inhalation.
Skin:	Expected to cause no more than minor skin irritation, but prolonged or frequently repeated skin contact may be harmful.
Eyes:	Expected to cause no more than minor irritation.
Absorption through skin:	No information is available.
Ingestion:	Not expected to be acutely toxic by ingestion.

HEALTH EFFECTS OR RISK FROM EXPOSURE

Acute:	No information is available.
Chronic:	No information is available.

MEDICAL CONDITIONS AGGRAVATED BY EXPOSURE

No information is available.

SECTION VI EMERGENCY & FIRST AID PROCEDURES

Eyes: Wash eyes with fresh water for at least 15 minutes.
If irritation continues, see a doctor.

Skin: Wash skin thoroughly with soap and water.
Launder contaminated clothing.

Inhalation: None considered necessary.

Ingestion: If swallowed, give a large amount of water to drink, make person vomit and
call a doctor.

Sensitization property: unknown

SECTION VII MEDIAN LETHAL DOSE (LD₅₀)

Oral: N.D.: believed to be greater than 5g/kg
(rat): practically non-toxic

Dermal: N.D.: believed to be greater than 3g/kg
(rabbit): practically non-toxic

SECTION VIII FIRE PROTECTION INFORMATION

Flash Point °C 146

Flammability limits N.D.

Autoignition temp.°C N.D.

Extinguishing Media: CO₂, Dry chemical foam, Water fog or spray.

SECTION IX REACTIVITY DATA

Stability X Stable Unstable

Conditions to avoid Do not store at high temperature.

Incompatibility (materials to avoid:): May react with strong oxidizing materials.

Hazardous polymerization: May occur X Will not occur

SECTION X REQUIREMENTS FOR TRANSPORTATION, HANDLING AND STORAGE

Minimum feasible handling temperatures should be maintained.
Periods of exposure to high temperatures should be minimized.
Water contamination should be avoided.

SECTION XI SPILL, LEAK AND DISPOSAL PROCEDURES

PROCEDURES IN CASE OF BREAKAGE OR LEAKAGE

Wipe up or absorb on suitable material and shovel up.

WASTE DISPOSAL METHOD

Place contaminated materials in disposable containers and bury in an approved dumping area.

SECTION XII CHEMICAL AND PHYSICAL PROPERTIES

Viscosity	@40°C cSt	9.07
Vapor Density	-	N.D.
Density	@15°C g/cm ³	0.885
Solubility		Insoluble in water
Boiling point		N.D.
Melting point		N.D.
Appearance		Light yellow colored liquid
Odor		Little odor.

N.D. - Not Determined
