

MATERIAL SAFETY DATA SHEET



ADEKA NOL

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DATE PREPARED: April/02/1996

DATE REVISED : June/01/2008

PRODUCT NAME

L-64

MSDS No. : US-15115

1. CHEMICAL PRODUCTS AND COMPANY IDENTIFICATION

PRODUCT IDENTIFIER : ADEKA NOL L-64

GENERAL USE : Surfactant

FORMULA : Polyoxyethylene polyoxypropylene ether

MANUFACTURER :

ADEKA CORPORATION

2-35, HIGASHI-OGU 7-CHOME,

ARAKAWA-KU, TOKYO 116-8554, JAPAN

TEL: 81-3-4455-2833 FAX: 81-3-3809-8232

CHEMICAL NAME & STRUCTURE:

Polyoxyethylene polyoxypropylene ether

$\text{HO}-(\text{C}_2\text{H}_4\text{O})_a-(\text{C}_3\text{H}_6\text{O})_b-(\text{C}_2\text{H}_4\text{O})_c-\text{H}$

EMERGENCY TELEPHONE NUMBERS :

ADEKA USA CORPORATION

TEL: 1-201-934-3211 FAX: 1-201-934-3408

DISTRIBUTOR :

TEL: _____ FAX: _____

2. COMPOSITION / INFORMATION ON INGREDIENTS

<u>COMPONENT</u>	<u>%</u>	<u>CAS No.</u>	<u>NOTE</u>
Polyoxyethylene polyoxypropylene ether	>99	9003-11-6	None

EXPOSURE GUIDELINE

<u>OSHA HAZARDS</u>	<u>OSHA</u>		<u>ACGIH TLV</u>		<u>STEL</u>	
	<u>PEL</u>		<u>TWA</u>			
	ppm	mg/m ³	ppm	mg/m ³	ppm	mg/m ³
Not applicable	—	—	—	—	—	—

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3. HAZARDS IDENTIFICATION

***** EMERGENCY OVERVIEW *****

*
* Clear liquid.
* May cause irritation to eyes and skin.
*
*
*

POTENTIAL HEALTH EFFECTS

SKIN CONTACT : May cause skin irritation.

EYE CONTACT : May cause eye irritation.

INHALATION : No significant health hazards identified.

INGESTION : Expected to be low toxic.

CHRONIC EFFECTS : No data exist regarding potential chronic health hazards.

4. FIRST AID MEASURES

SKIN CONTACT : Remove contaminated clothing immediately. Wash skin with soap and water.
If irritation occurs, get medical attention.

EYE CONTACT : Immediately flush with large quantities of clean water for at least 15 minutes and call a physician.

INHALATION : Not expected to present a significant inhalation hazard under anticipated conditions of normal use.

INGESTION : Consult a physician for first aid. In case of unconsciousness, don't induce vomiting.

NOTE TO PHYSICIAN : None.

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5. FIRE-FIGHTING MEASURES

FLAMMABLE PROPERTIES :

Flash point and Method °F (°C) : 469 (243) by C.O.C. ¹⁾

Flammable Limits (% by volume) : No data available.

Autoignition Temperature °F (°C) : No data available.

EXTINGUISHING MEDIA : Alcohol foam, carbon dioxide, dry chemical powder or water spray.

SPECIAL FIRE-FIGHTING PROCEDURES : Abundant water spray can be used to dilute spills and render them incombustible to extinguish fires.

FIRE-FIGHTING INSTRUCTIONS : Water can be used to cool fire-exposed containers to protect personnel and to disperse vapor and spills.

HAZARDOUS DECOMPOSITION PRODUCTS : Smoke, fumes and oxides of carbon.

TO FIREMEN : Firemen should wear normal protective equipment (full bunker gear) and positive-pressure self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

LARGE SPILL : Prevent the spilt liquid from spreading by the use of sand or earth. Transfer the liquid to a salvage tank if possible. Incinerate or place in a suitable container for disposal by a licensed contractor. (Follow all Federal, State and local regulations in your country.)

SMALL SPILL : Sweep up or vacuum and place into sealable container for disposal with wearing protective equipment. (See section 8.)

7. HANDLING AND STORAGE

HANDLING : Remove all sources of ignition.
Utilize recommended protective equipment.

STORAGE : Keep away from heat, sparks and open flame.
Keep container closed and store in a cool place.

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8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

ENGINEERING CONTROLS : Provide mechanical ventilation of confined spaces.

PERSONAL PROTECTIVE EQUIPMENT

RESPIRATORY PROTECTION : If vapors, mists or aerosols are generated, wear a NIOSH/OSHA approved respirator.

EYE PROTECTION : Chemical safety glasses.

SKIN PROTECTION : Chemical resistant gloves.

BODY PROTECTION : Anti-static electrical work clothes.

SPECIAL PROTECTION INFORMATION : Avoid a prolonged or repeated contact.

9. PHYSICAL AND CHEMICAL PROPERTIES

APPEARANCE : Clear liquid

ODOR : Mild odor

BOILING POINT °F (°C) : No data available.

MELTING POINT / FREEZING POINT °F (°C) : Pour point 61°F (16°C)¹⁾

VAPOR PRESSURE : No data available.

SOLUBILITY IN WATER : Appreciable at 77 °F (25°C)
(Cloud point (1%aq.) : 163°F (58°C))¹⁾

SPECIFIC GRAVITY : 1.05 at 77 °F (25°C)¹⁾

pH : 5.5 - 7 (2.5%aq.)¹⁾

VISCOSITY : 550 mPa·s at 77°F (25°C)¹⁾

VAPOR DENSITY (air=1) : No data available.

EVAPORATION RATE : No data available.
(n-Butylacetate=1)

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10. STABILITY AND REACTIVITY

CHEMICAL STABILITY : Stable under normal conditions.

SUBSTANCES TO AVOID CONTAMINATION : Strong oxidizing agents.

HAZARDOUS REACTION AND FIRE DANGER : No risk of specific hazardous reactions or fire under normal conditions.

PRODUCTS CAUSING HAZARDOUS DECOMPOSITION : Thermal decomposition or combustion may produce aldehydes, carbon monoxide or carbon dioxide.

11. TOXICOLOGICAL INFORMATION

EYE EFFECTS : Mild irritation (Draize test, rabbit)²⁾
(All reactions had resolved 1 or 2 days after instillation.)

SKIN EFFECTS : No data available.

ACUTE ORAL EFFECTS : LD₅₀ = 5 g / kg (Rat)²⁾.

ACUTE INHALATION EFFECTS : No data available.

CHRONIC EFFECTS / CARCINOGENICITY : This product is not known or reported to be chronic and carcinogenic properties by any reference sources including EU, IARC, OSHA, NTP or EPA.

MUTAGENICITY : This product is not known or reported to be mutagenic properties by any reference sources including EU, IRAC, OSHA, NTP or EPA.

OTHERS : No relevant information found.

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12. ECOLOGICAL INFORMATION

BIODEGRADABILITY : No data available.

BIOACCUMULATION : No data available.

FISH TOXICITY : Survival ratio (Gold fish, 24hr) ¹⁾ : 2000ppm 100%.

OTHERS : None.

13. DISPOSAL CONSIDERATION

DISPOSAL INFORMATION : Should be in accordance with local, state or national legislation.

14. TRANSPORTATION INFORMATION

UN No. : Free

IMDG CODE : Free

MARINE POLLUTANT : Free

15. REGULATORY INFORMATION

U.S.FEDERAL REGULATION

TSCA: TSCA INVENTORY registered not registered

SARA TITLE III COMPONENT CAS No. WT%

SECTION 313 TOXIC CHEMICALS : None

INTERNATIONAL INFORMATION

CEPA : DSL registered not registered

REACH(EU):If you require information, please contact us.

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16. OTHER INFORMATION

RATING

HMIS :

HEALTH ; 1

FLAMMABILITY ; 1

REACTIVITY ; 1

PERSONAL PROTECTIVE

EQUIPMENT ; C

NFPA :

HEALTH HAZARD ; 1

FLAMMABILITY ; 1

REACTIVITY ; 1

SPECIFIC HAZARD ; None

REFERENCE :

- 1) Our testing data
- 2) Fragrance Journal, 7 82 (1974) : Wyandotte Chem. Corp.'s Data

OTHERS :

DATE REVISED : August/30/2006

OTHERS : None

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