



Alpha Chemika



ISO 9001 QUALITY SYSTEM CERTIFIED ORGANIZATION

MATERIAL SAFETY DATA SHEET

MSDS

Savgan Heights ; 102 ,B Wing ; R.T.O. Lane ,Andheri (West) Mumbai - 400053 , INDIA

Section 1 - Chemical Product and Company Identification

Product Name : VITAMIN A ACETATE

Synonyms: Retinol acetate, Retinyl acetate

CAS No.: 127-47-9

Molecular Weight: 328.49

Chemical Formula: C₂₂H₃₂O₂

Section 2 - Composition, Information on Ingredients

Ingredient	CAS No	Percent	Hazardous
Vitamin A Acetate	127-47-9	90 - 100%	Yes

Section 3 - Hazardous Identification

Risk advice to man and the environment

Possible risk of harm to the unborn child. Irritating to skin.

Section 4 - First Aid Measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Section 5 - Fire Fighting Measures

Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Special protective equipment for fire-fighters

Wear self contained breathing apparatus for fire fighting if necessary.

Section 6 - Accidental Release Measures

Personal precautions

Use personal protective equipment. Avoid breathing vapors, mist or gas. Ensure adequate ventilation.

Environmental precautions

Do not let product enter drains.

Methods for cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Section 7 - Handling and Storage

Handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Normal measures for preventive fire protection.

Storage

Store in cool place. Keep container tightly closed in a dry and well-ventilated place.

Recommended storage temperature: -20 °C

Section 8 - Exposure Controls, Personal Protection

Personal protective equipment

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multipurpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Hand protection

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it. Handle with gloves.

Eye protection

Safety glasses with side-shields conforming to EN166

Skin and body protection

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

Section 9 - Physical and Chemical Properties

Appearance

Form viscous liquid

Colour yellow, dark yellow

Safety data

pH no data available Melting

point 57 - 58 °C Boiling point

no data available Flash point

no data available

Ignition temperature no data available

Lower explosion limit no data available

Upper explosion limit no data available

Water solubility no data available

Section 10 - Stability and Reactivity

Storage stability

Stable under recommended storage conditions.

Materials to avoid

Strong oxidizing agents

Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. - Carbon oxides

Section 11 - Toxicological Information

Acute toxicity

LD50 Oral - mouse - 4.100 mg/kg

Irritation and corrosion

Skin - rabbit - Irritating to skin.

Eyes - rabbit - No eye irritation

Sensitisation

no data available **Chronic**

exposure Carcinogenicity -

rat - Oral

Tumorigenic:Neoplastic by RTECS criteria. Skin and Appendages: Other: Tumors.

Carcinogenicity - rat - Oral

Tumorigenic:Neoplastic by RTECS criteria. Endocrine:Thyroid tumors. Skin and Appendages: Other: Tumors.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Genotoxicity in vitro - rat

DNA inhibition

Genotoxicity in vitro - mouse - lymphocyte

DNA inhibition

Genotoxicity in vitro - mouse - Other cell types

DNA inhibition

Genotoxicity in vitro - mouse - Ascites tumor

DNA inhibition

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Other effects to embryo.

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Respiratory system.

Developmental Toxicity - rat - Oral

Effects on Embryo or Fetus: Cytological changes (including somatic cell genetic material).

Developmental Toxicity - rat - Oral

Specific Developmental Abnormalities: Central nervous system. Specific Developmental Abnormalities: Eye, ear. Specific Developmental Abnormalities: Craniofacial (including nose and tongue).

Damage to fetus possible

Suspected human reproductive toxicant

Reproductive toxicity - rat - Oral

Effects on Newborn: Live birth index (# fetuses per litter; measured after birth). Effects on Newborn: Viability index (e.g., # alive at day 4 per # born alive). Effects on Newborn: Growth statistics (e.g., reduced weight gain)

Reproductive toxicity - rat - Oral

Signs and Symptoms of Exposure

Acute vitamin A intoxication may occur with exposure to high concentrations., Symptoms and signs of poisoning are:, sedation, Irritability, Headache, Skin disorders, Gastrointestinal disturbance, Congenital abnormalities may occur after exposure to high concentrations during pregnancy.

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Target Organs Eyes, Blood, Bone, Liver, Spleen., Central nervous system,

Additional Information

RTECS: VH6825000

Section 12 - Ecological Information

Elimination information (persistence and degradability)

no data available

Ecotoxicity effects

no data available

Further information on ecology

no data available

Section 13 - Disposal Considerations

Product

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

Contaminated packaging

Dispose of as unused product.

Section 14 - Transport Information

ADR/RID

Not dangerous goods

IMDG

Not dangerous goods

IATA

Not dangerous goods

Section 15 - Regulatory Information

Labelling according to EC Directives

Hazard symbols

Xn Harmful

R-phrases(s)

R63 Possible risk of harm to the unborn child.

R38 Irritating to skin.

S-phrases(s)

S36/37 Wear suitable protective clothing and gloves.

Section 16 - Additional Information

Not Regulated