

Farnesylpyrophosphate: sc-200847



The Power to Question

MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Product Name: Farnesylpyrophosphate

Product Number: sc-200847

Supplier: Santa Cruz Biotechnology, Inc.
2145 Delaware Avenue
Santa Cruz, CA 95060
800.457.3801 or 831.457.3800

Emergency: ChemWatch
Within the US & Canada: 877-715-9305
Outside the US & Canada: +800 2436 2255 (1-800-CHEMCALL) or call +613 9573 3112

2. Hazard Identification

Classification according to Regulation (EC) No 1272/2008



GHS02 flame

Flam. Liq. 2 H225 Highly flammable liquid and vapor.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC:



F; Highly flammable

R11: Highly flammable

Information concerning particular hazards for human and environment:

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

Classification system:

The classification is according to the latest editions of the EU-lists, and extended by company and literature data.

Labeling according to EU guidelines:

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

Code letter and hazard designation of product:



F; Highly flammable

Risk phrases:

11 Highly flammable

Safety phrases

7/9 Keep container tightly closed and in a well-ventilated place.

16 Keep away from sources of ignition - No smoking.

60 This material and its container must be disposed of as hazardous waste.

Other hazards

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

3. Composition/ Information on Ingredients

Description:

Mixture of substances listed below with nonhazardous additions.

Liquid. Solution in 0.25M ammonium bicarbonate containing 70% ethanol.

CAS No.: 13058-04-3

Molecular Weight: 433.42

Molecular Formula: C₁₅H₂₅O₇P₂•3NH₄

Dangerous components:			
CAS: 64-17-5 EINECS: 200-578-6 Index number: 603-002-00-5	Ethanol	F R11 Flam. Liq. 2, H225	70.0%

Additional information:

For lyophilized materials containing hazardous substances, percent hazardous material determination based on pre-lyophilized volume.

For the wording of the listed risk phrases refer to section 16.

4. First Aid Measures

General information:

In case of accident, seek medical advice immediately and show the label and the MSDS where possible.

After inhalation:

Supply fresh air; consult doctor in case of complaints.

After skin contact:

Remove contaminated clothing.

After eye contact:

Rinse opened eye for several minutes under running water.

After ingestion:

If symptoms persist consult doctor.

Information for doctor:**Most important symptoms and effects, both acute and delayed**

No further relevant information available.

Indication of any immediate medical attention and special treatment needed

In case of accident, seek medical advice immediately and show the label and the MSDS where possible.

5. Firefighting Measures

Suitable extinguishing agents:

CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam..

Special hazards arising from the substance or mixture

No further relevant information available.

Protective equipment:

Wear self-contained respiratory protective device. Do not inhale explosion gases or combustion gases. Wear fully protective suit.

6. Accidental Release Measures

Personal precautions, protective equipment and emergency procedures:

Wear protective equipment. Keep unprotected persons away

Wear protective clothing.

Environmental precautions:

Dilute with plenty of water.

Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

7. Handling and Storage

Precautions for safe handling:

No special precautions are necessary if used correctly.

Information about fire - and explosion protection:

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges

Conditions for safe storage, including any incompatibilities

Store tightly sealed in a cool, dry and well ventilated location (see label for storage temperature and additional specific information).

Keep away from heat, sources of ignition and incompatibles such as oxidizing agents.

Storage:

Requirements to be met by storerooms and receptacles:

Store in a cool location.

Store tightly sealed in a cool, dry and well ventilated location. Store at -20 °C.

Information about storage in one common storage facility:

Do not store in warm environment or in contact with flammable or oxidizing substances.

Further information about storage conditions:

Keep container tightly sealed.

Store in cool, dry conditions in well sealed receptacles.

Specific end use(s)

No further relevant information available.

8. Exposure Controls/ Personal protection

Additional information about design of technical facilities:

No further data; see item 7.

Control parameters

Ingredients with limit values that require monitoring at the workplace:

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

Additional information:

The lists valid during the making were used as basis.

Exposure controls

Personal protective equipment:

General protective and hygienic measures:

Wash hands before breaks and at the end of work.

Respiratory protection:

Not required.

Protection of hands:

Protective gloves



The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/the preparation/the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:

Safety glasses

Body protection:

Protective work clothing

9. Physical and Chemical Properties

Form:	Liquid	Odor:	Alcohol-like
Odor threshold:	Not determined	pH-value:	Not applicable.
Melting point/Melting range:	Undetermined	Boiling point/Boiling range:	Not determined
Flash point:	Not determined	Flammability (solid, gaseous):	Not flammable
Decomposition temperature:	Not determined	Self-igniting:	Not selfigniting
Danger of explosion:	Not explosive	Explosion limits:	Not determined
Vapour pressure:	Not applicable	Density:	Not determined
Relative density	Not determined	Vapor density	Not applicable
Evaporation rate	Not applicable	Solubility in Water	Fully miscible
Viscosity:	Not applicable	Partition coefficient: (n-octanol/water)	Not determined
Other Information	No further relevant information available	Solvent content:	Organic solvents 70,0 %

10. Stability and Reactivity**Chemical stability:**

Stable. Avoid strong oxidizing agents.

Thermal decomposition / conditions to be avoided:

No decomposition if used according to specifications.

Possibility of hazardous reactions:

No dangerous reactions known.

Conditions to avoid:

No further relevant information available.

Incompatible materials:

No further relevant information available.

Hazardous decomposition products:

No dangerous decomposition products known.

11. Toxicological Information**Acute toxicity:****LD/LC50 values relevant for classification:**

no data available

Primary irritant effect:

on the skin: Not determined.

on the eye: Not determined.

Sensitization:

No sensitizing effects known.

12. Ecological Information**Toxicity****Aquatic toxicity:**

No further relevant information available.

Persistence and degradability:

No further relevant information available.

Behavior in environmental systems:**Bioaccumulative potential:**

No further relevant information available.

Mobility in soil:

No further relevant information available.

Additional ecological information:**General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

Results of PBT and vPvB assessment

PBT: Not applicable.

vPvB: Not applicable.

Other adverse effects

No further relevant information available.

13. Disposal Considerations

Waste treatment methods**Recommendation:**

All waste must be handled in accordance with local, state and federal regulations. This material and its container must be disposed of in a safe way.

Uncleaned packaging:**Recommendation:**

All waste must be handled in accordance with local, state and federal regulations. This material and its container must be disposed of in a safe way.

Recommended cleansing agents:

Water, if necessary together with cleansing agents

14. Transport Information

UN-Number

ADR, IMDG, IATA

UN1993

UN proper shipping name

ADR

IMDG

IATA

1993 FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL))

FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL))

FLAMMABLE LIQUID, N.O.S. (ETHANOL)

Transport hazard class(es)

ADR, IMDG, IATA

3 Flammable liquids

Packing group

ADR, IMDG, IATA

II

Environmental hazards:**Marine pollutant:**

No

Special precautions for user:

Warning: Flammable liquids.

Danger code (Kemler):

33

EMS Number:

F-E,S-E

Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code:

Not applicable.

Transport/Additional information:

ADR

Limited quantities (LQ) 1L

Transport category 2

Tunnel restriction code D/E

UN "Model Regulation":

UN1993, FLAMMABLE LIQUID, N.O.S. (ETHANOL (ETHYL ALCOHOL)),

3, II

15. Regulatory Information

Chemical safety assessment:

A Chemical Safety Assessment has not been carried out.

16. Other Information

The above information is believed to be correct but does not purport to be complete and should be used only as a guide. The burden of safe use of this material rests entirely with the user.

06/12/2014