



BioAnalyt GmbH
14513 Teltow

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Version 01

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product identifier****Vitamin E reagent vial****1.2 Relevant identified uses of the substance or mixture and uses advised against****1.2.1 Relevant uses**

Analytics

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number**Company** +49 (0)3328-35150-00 Mo-Fr 8:30 - 17:30**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture**

Flam. Liq. 2: H225 Highly flammable liquid and vapour.
Asp. Tox. 1: H304 May be fatal if swallowed and enters airways.
Skin Irrit. 2: H315 Causes skin irritation.
Eye Irrit. 2: H319 Causes serious eye irritation.
STOT SE 3: H336 May cause drowsiness or dizziness.
Repr. 2: H361f Suspected of damaging fertility.
STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure.
Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects.



2.2 Label elements

The product is required to be labelled in accordance with regulation (EC) No 1272/2008 (CLP).

Hazard pictograms



Signal word

DANGER

Contains:

n-Hexane
Propan-2-ol

Hazard statements

H225 Highly flammable liquid and vapour.
 H304 May be fatal if swallowed and enters airways.
 H315 Causes skin irritation.
 H319 Causes serious eye irritation.
 H336 May cause drowsiness or dizziness.
 H361f Suspected of damaging fertility.
 H373 May cause damage to organs through prolonged or repeated exposure.
 H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P260 Do not breathe vapours.
 P280 Wear protective gloves / protective clothing / eye protection / face protection.
 P301+P310 IF SWALLOWED: Immediately call a POISON CENTER / doctor.
 P331 Do NOT induce vomiting.
 P312 Call a POISON CENTER / doctor if you feel unwell.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 P501 Dispose of contents/container in accordance with local/national regulation.

2.3 Other hazards

Physico-chemical hazards

Vapours may form explosive mixture with air.

Human health dangers

Has a degreasing effect on the skin.
 If swallowed or in the event of vomiting, risk of product entering the lungs.

Environmental hazards

Does not contain any PBT or vPvB substances.

Other hazards

Further hazards were not determined with the current level of knowledge.

SECTION 3: Composition / Information on ingredients

Product-type:

The product is a mixture.

Range [%]	Substance
60 - < 80	n-Hexane CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, Reg-No.: 01-2119480412-44-XXXX GHS/CLP: Flam. Liq. 2: H225 - Repr. 2: H361f - Asp. Tox. 1: H304 - STOT RE 2: H373 - Skin Irrit. 2: H315 - STOT SE 3: H336 - Aquatic Chronic 2: H411
15 - < 25	Propan-2-ol CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319 - STOT SE 3: H336
5 - < 15	Ethanol CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX GHS/CLP: Flam. Liq. 2: H225 - Eye Irrit. 2: H319

Comment on component parts

Substances of Very High Concern - SVHC: substances are not contained or are below 0.1%.
 For full text of H-statements: see SECTION 16.



SECTION 4: First aid measures

4.1 Description of first aid measures

General information	Take off contaminated clothing and wash before reuse.
Inhalation	Ensure supply of fresh air. Remove the victim into fresh air and keep him calm. In the event of symptoms seek medical treatment.
Skin contact	When in contact with the skin, clean with soap and water. Consult a doctor if skin irritation persists.
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
Ingestion	Do not induce vomiting. Consult a doctor immediately. Rinse mouth.

4.2 Most important symptoms and effects, both acute and delayed

Irritant effects
Dizziness
Drowsiness
Narcosis
Tiredness
Cough

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.
Forward this sheet to the doctor.
If ingested, material may be aspirated into the lungs and cause chemical pneumonitis.

SECTION 5: Fire-fighting measures

5.1 Extinguishing media

Suitable extinguishing media	foam, dry powder, water spray jet, carbon dioxide Fire extinguishing method of surrounding areas must be considered.
Extinguishing media that must not be used	Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.
Carbon monoxide (CO)
Carbon dioxide (CO₂)

5.3 Advice for firefighters

Do not inhale explosion and/or combustion gases.
Use self-contained breathing apparatus.
Cool containers at risk with water spray jet.
Collect contaminated firefighting water separately, must not be discharged into the drains.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Keep away from all sources of ignition.
Ensure adequate ventilation.
Wear suitable protective equipment. For personal protection see SECTION 8.
Remove persons to safety.



6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.
In case the product spills into drains/surface waters/groundwater, immediately inform the authorities.

6.3 Methods and material for containment and cleaning up

Pick up with absorbent material (e.g. sand, universal absorbent, diatomaceous earth).
Dispose of absorbed material in accordance with the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Use only in well-ventilated areas.
Provide good room ventilation even at ground level (vapours are heavier than air).
Place the container in an upright position and protect it against falling over.
Open and handle container with care.
Avoid spilling or spraying in enclosed areas.
Use solvent-resistant equipment.
Avoid contact with eyes and skin. Use personal protective equipment.
Keep away from open flames, hot surfaces and sources of ignition.
Do not smoke.
Ground/bond container and receiving equipment.
Use explosion-proofed equipment/fittings and non-sparkling tools.
Vapours can form an explosive mixture with air.
Ignitable mixtures can be formed in the empty container.
Take off contaminated clothing and wash before reuse.
Cloths contaminated with product should not be kept in trouser pockets.
Do not eat, drink, smoke or take drugs at work.
Wash hands before breaks and after work.
Use barrier skin cream.

7.2 Conditions for safe storage, including any incompatibilities

Keep only in original container.
Prevent penetration into the ground.
Provide solvent-resistant and impermeable floor.
Do not store with oxidizing or self-igniting materials.
Do not store with combustible materials.
Do not store together with oxidizing agents.
Do not store with peroxides.
Keep container tightly closed.
Keep container in a well-ventilated place.
Protect from heat/overheating and from sun.
Keep in a cool place. Store in a dry place.

7.3 Specific end use(s)

See product use, SECTION 1.2



SECTION 8: Exposure controls / personal protection

8.1 Control parameters

Ingredients with occupational exposure limits to be monitored (GB)

Substance
n-Hexane
CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, Reg-No.: 01-2119480412-44-XXXX
Long-term exposure: 20 ppm, 72 mg/m ³
Propan-2-ol
CAS: 67-63-0, EINECS/ELINCS: 200-661-7, EU-INDEX: 603-117-00-0, Reg-No.: 01-2119457558-25-XXXX
Long-term exposure: 400 ppm, 999 mg/m ³
Short-term exposure (15-minute): 500 ppm, 1250 mg/m ³
Ethanol
CAS: 64-17-5, EINECS/ELINCS: 200-578-6, EU-INDEX: 603-002-00-5, Reg-No.: 01-2119457610-43-XXXX
Long-term exposure: 1000 ppm, 1920 mg/m ³

Ingredients with occupational exposure limits to be monitored (EU)

Substance / EC LIMIT VALUES
n-Hexane
CAS: 110-54-3, EINECS/ELINCS: 203-777-6, EU-INDEX: 601-037-00-0, Reg-No.: 01-2119480412-44-XXXX
Eight hours: 20 ppm, 72 mg/m ³

DNEL

Substance
Propan-2-ol, CAS: 67-63-0
Industrial, inhalative, Long-term - systemic effects: 500 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 888 mg/kg.
general population, oral, Long-term - systemic effects: 26 mg/kg.
general population, dermal, Long-term - systemic effects: 319 mg/kg.
general population, inhalative, Long-term - systemic effects: 89 mg/m ³ .
Ethanol, CAS: 64-17-5
Industrial, inhalative, Acute - systemic effects: 1900 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 343 mg/kg.
Industrial, inhalative, Long-term - systemic effects: 1900 mg/m ³ .
general population, inhalative, Long-term - systemic effects: 114 mg/m ³ .
general population, oral, Long-term - systemic effects: 87 mg/kg.
general population, dermal, Long-term - systemic effects: 206 mg/kg.
general population, dermal, Acute - systemic effects: 950 mg/kg.
general population, inhalative, Acute - systemic effects: 950 mg/m ³ .
n-Hexane, CAS: 110-54-3
Industrial, inhalative, Long-term - systemic effects: 75 mg/m ³ .
Industrial, dermal, Long-term - systemic effects: 11 mg/kg bw/day.
general population, oral, Long-term - systemic effects: 4 mg/kg bw/day.
general population, inhalative, Long-term - systemic effects: 16 mg/m ³ .
general population, dermal, Long-term - systemic effects: 5,3 mg/kg bw/day.

PNEC

Substance
Propan-2-ol, CAS: 67-63-0
sewage treatment plants (STP), 2251 mg/l.



freshwater, 140,9 mg/l.
sediment (freshwater), 552 mg/kg.
sediment (seawater), 552 mg/kg.
seawater, 140,9 mg/l.
soil, 28 mg/kg.
Ethanol, CAS: 64-17-5
sediment (freshwater), 3,6 mg/kg.
freshwater, 0,96 mg/l.
seawater, 0,79 mg/l.
sewage treatment plants (STP), 580 mg/l.
soil, 0,63 mg/kg.
n-Hexane, CAS: 110-54-3
There are no PNEC values established for the substance.,

8.2 Exposure controls

Additional advice on system design	Ensure adequate ventilation on workstation. Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.
Eye protection	Tightly fitting goggles (EN 166:2001).
Hand protection	The details concerned are recommendations. Please contact the glove supplier for further information. In full contact: ≥ 0,4 mm, Nitrile rubber, >480 min (EN 374-1/-2/-3). ≥ 0,4 mm, Viton, >480 min (EN 374-1/-2/-3). For short-term contact: 0,5 mm, Polychloroprene, >60 min (EN 374-1/-2/-3).
Skin protection	Flame retardant antistatic protective clothing.
Other	Do not breathe vapour/spray. Avoid contact with eyes and skin. Personal protective equipment should be selected specifically for the working place, depending on concentration and quantity handled. The resistance of this equipment to chemicals should be ascertained with the respective supplier.
Respiratory protection	Breathing apparatus in the event of aerosol or mist formation. Short term: filter apparatus, filter A. (DIN EN 14387)
Thermal hazards	not applicable
Delimitation and monitoring of the environmental exposition	Protect the environment by applying appropriate control measures to prevent or limit emissions.



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	colourless
Odor	solvent-like
Odour threshold	No information available.
pH-value	No information available.
pH-value [1%]	No information available.
Boiling point [°C]	> 35
Flash point [°C]	< 23
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	1,1 Vol.% (CAS 110-54-3)
Upper explosion limit	7,5 Vol.% (CAS 110-54-3)
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	CAS 110-54-3: 10 kPa (9,8 °C) CAS 67-63-0: 4,3 kPa (20 °C) CAS 64-17-5: 5,9 kPa (20 °C)
Density [g/ml]	< 1
Bulk density [kg/m³]	not applicable
Solubility in water	partially soluble
Partition coefficient [n-octanol/water]	CAS 110-54-3: 4 (pH=7, 20 °C) CAS 67-63-0: 0,05 CAS 64-17-5: -0,31
Viscosity	No information available.
Relative vapour density determined in air	CAS 110-54-3: 2,79 CAS 67-63-0: 2,07
Evaporation speed	No information available.
Melting point [°C]	No information available.
Autoignition temperature [°C]	No information available.
Decomposition temperature [°C]	No information available.

9.2 Other information

Temperature class (ATEX): T3 (CAS 110-54-3)

SECTION 10: Stability and reactivity

10.1 Reactivity

Risk of ignition.
Vapours can form an explosive mixture with air.

10.2 Chemical stability

Stable under normal ambient conditions (ambient temperature).
Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Reactions with alkali metals.
Reactions with peroxides.
Reactions with strong oxidizing agents.
Reactions with strong acids.

10.4 Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.



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10.5 Incompatible materials

See SECTION 10.3.
Rubber, various plastics

10.6 Hazardous decomposition products

No dangerous reactions known if used as directed.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Substance
Propan-2-ol, CAS: 67-63-0
LD50, dermal, Rabbit: 12800 mg/kg (RTECS).
LC50, inhalative, Rat: 72,6 mg/l/4h (RTECS).
LC50, oral, Rat: 5045 mg/kg (RTECS).
LD0, oral, Human: 3570 mg/kg (RTECS).
Ethanol, CAS: 64-17-5
LD50, oral, Rat: 7060 mg/kg (TOXNET).
LC50, inhalative, Rat: 95,6 mg/l/4h (RTECS).
n-Hexane, CAS: 110-54-3
LD50, dermal, Rabbit: 3000 mg/kg (IUCLID).
LD50, oral, mouse: 5000 mg/kg (IUCLID).

Serious eye damage/irritation	Irritant Calculation method
Skin corrosion/irritation	Irritant Calculation method
Respiratory or skin sensitisation	Based on the available information, the classification criteria are not fulfilled.
Specific target organ toxicity — single exposure	Vapours may cause drowsiness and dizziness. Calculation method
Specific target organ toxicity — repeated exposure	May cause damage to organs through prolonged or repeated exposure. Calculation method
Mutagenicity	Based on the available information, the classification criteria are not fulfilled.
Reproduction toxicity	Suspected of damaging fertility. Calculation method
Carcinogenicity	Based on the available information, the classification criteria are not fulfilled.
Aspiration hazard	May be fatal if swallowed and enters airways. Calculation method
General remarks	Symptoms (If swallowed): nausea, vomiting. Inhalation causes narcotic effect/intoxication. Inhalation causes persistent cough, difficulty in breathing Has a degreasing effect on the skin. Frequent persistent contact with the skin can cause dermatitis. Toxicological data of complete product are not available.



SECTION 12: Ecological information

12.1 Toxicity

Substance
Propan-2-ol, CAS: 67-63-0
LC50, (96h), <i>Lepomis macrochirus</i> : 1400 mg/l (ECOTOX-Database).
EC50, (48h), <i>Daphnia magna</i> : > 13000 mg/l (IUCLID).
IC50, (72h), <i>Scenedesmus quadricauda</i> (alga): > 1000 mg/l (IUCLID).
Ethanol, CAS: 64-17-5
LC50, (96h), <i>Leuciscus idus</i> : 8140 mg/l (IUCLID).
EC50, (48h), <i>Daphnia magna</i> : > 9000 -< 15000 mg/l (IUCLID).
EC5, (16h), <i>Pseudomonas putida</i> : 6500 mg/l (IUCLID).
IC5, <i>Scenedesmus quadricauda</i> (alga): 5000 mg/l (Lit.).
n-Hexane, CAS: 110-54-3
LC50, (96h), <i>Pimephales promelas</i> : 2,5 mg/l (ECOTOX).
EC50, (48h), <i>Daphnia magna</i> : 2,1 mg/l (Lit).

12.2 Persistence and degradability

ThSB: 3,527 mg/mg (CAS 110-54-3)
 ThSB: 2,396 mg/mg (CAS 67-63-0)
 ThSB: 2,084 mg/mg (CAS 64-17-5)

Behaviour in environment compartments

No information available.

Behaviour in sewage plant

No information available.

Biological degradability

The product is readily biodegradable: CAS 110-54-3: 98%, 28d.
 The product is readily biodegradable: CAS 67-63-0: 95%, 21d.
 The product is readily biodegradable: CAS 64-17-5: 94%.

12.3 Bioaccumulative potential

log KOW: 4; BCF: 501,2 (CAS 110-54-3)
 log KOW: 0,05 (CAS 67-63-0)
 log KOW: -0,31 (CAS 64-17-5)

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

not applicable

12.6 Other adverse effects

Ecological data of complete product are not available.
 Do not discharge product unmonitored into the environment or into the drainage.



SECTION 13: Disposal considerations

13.1 Waste treatment methods

Waste material must be disposed of in accordance with the Directive on waste 2008/98/EC as well as other national and local regulations. It is not possible to determine a waste code for this product in accordance with the European Waste Catalogue (EWC) since it is only possible to classify it according to how it is used by the customer. The waste code is to be determined within the EU in liaison with the waste-disposal operator.

Product

Coordinate disposal with the disposal contractor/authorities if necessary.

Waste no. (recommended) 070704*
160506*
160508*

Contaminated packaging

Uncontaminated packaging may be taken for recycling.
Packaging that cannot be cleaned should be disposed of as for product.

Waste no. (recommended) 150110*

SECTION 14: Transport information

14.1 UN number

Transport by land according to ADR/RID 1993

Inland navigation (ADN) 1993



Marine transport in accordance with IMDG 1993

Air transport in accordance with IATA 1993

**14.2 UN proper shipping name**

Transport by land according to ADR/RID Flammable liquid, n.o.s. (n-Hexane, Isopropanol)

- Classification Code F1



- Label  

- ADR LQ 1 I

- ADR 1.1.3.6 (8.6) Transport category (tunnel restriction code) 2 (D/E)



Inland navigation (ADN) Flammable liquid, n.o.s. (n-Hexane, Isopropanol)

- Classification Code F1

- Label  


Marine transport in accordance with IMDG Flammable liquid, n.o.s. (n-Hexane, Isopropanol)

- EMS F-E, S-E

- Label  

- IMDG LQ 1 I

Air transport in accordance with IATA Flammable liquid, n.o.s. (n-Hexane, Isopropanol solution)

- Label 

14.3 Transport hazard class(es)

Transport by land according to ADR/RID 3

Inland navigation (ADN) 3

Marine transport in accordance with IMDG 3

Air transport in accordance with IATA 3

14.4 Packing group

Transport by land according to ADR/RID II

Inland navigation (ADN) II

Marine transport in accordance with IMDG II

Air transport in accordance with IATA II



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14.5 Environmental hazards

Transport by land according to ADR/RID yes

Inland navigation (ADN) yes

Marine transport in accordance with IMDG MARINE POLLUTANT

Air transport in accordance with IATA yes

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

14.7 Transport in bulk according to Annex II of MARPOL and the IBC Code**SECTION 15: Regulatory information****15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

EEC-REGULATIONS 1991/689 (2001/118); 2010/75; 2004/42; 648/2004; 1907/2006 (REACH); 1272/2008; 75/324/EEC (2008/47/EC); (EU) 2015/830; (EU) 2016/131; (EU) 517/2014

TRANSPORT-REGULATIONS DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2017).

NATIONAL REGULATIONS (GB): EH40/2005 Workplace exposure limits (Second edition, published December 2011).

- Observe employment restrictions for people Observe employment restrictions for young people.
Observe employment restrictions for mothers-to-be and nursing mothers.

- VOC (2010/75/CE) 100 %

15.2 Chemical safety assessmentFor the following substances of this preparation a chemical safety assessment has been carried out:
CAS 64-17-5**SECTION 16: Other information****16.1 Hazard statements (SECTION 03)**H319 Causes serious eye irritation.
H411 Toxic to aquatic life with long lasting effects.
H336 May cause drowsiness or dizziness.
H315 Causes skin irritation.
H373 May cause damage to organs through prolonged or repeated exposure.
H304 May be fatal if swallowed and enters airways.
H361f Suspected of damaging fertility.
H225 Highly flammable liquid and vapour.

**16.2 Abbreviations and acronyms:**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.3 Other information**Classification procedure**

Flam. Liq. 2: H225 Highly flammable liquid and vapour. (Calculation method)
 Asp. Tox. 1: H304 May be fatal if swallowed and enters airways. (Calculation method)
 Skin Irrit. 2: H315 Causes skin irritation. (Calculation method)
 Eye Irrit. 2: H319 Causes serious eye irritation. (Calculation method)
 STOT SE 3: H336 May cause drowsiness or dizziness. (Calculation method)
 Repr. 2: H361f Suspected of damaging fertility. (Calculation method)
 STOT RE 2: H373 May cause damage to organs through prolonged or repeated exposure. (Calculation method)
 Aquatic Chronic 2: H411 Toxic to aquatic life with long lasting effects. (Calculation method)

Modified position

none



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