

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY UNDERTAKING

- Product identifiers**

Product Name: **LipoQ™ Lipid Quantification Kit**
 Catalogue Number: **LP01**

- Relevant identified uses of the substance or mixture and uses advised against**

Research use only. Not for human use.

- Details of the supplier of the safety data sheet**

Company	Cell Guidance Systems Maia Building, Babraham Research Campus, Cambridge CB22 3AT, UK
Web	www.cellgs.com
Email	tech@cellgs.com
Telephone	+44 (0)1223 967316

- Emergency Information**

In case of a chemical emergency, spill, fire, or exposure, call Cell Guidance Systems at +44 (0) 1223 967316 (09.00 - 17.00 GMT). In US call 760 450 4304.

2. HAZARDS IDENTIFICATION

- Classification of the substance or mixture**

Considered a hazardous substance/mixture.

- Label elements**

- The substance is classified and labelled according to the Globally Harmonized System (GHS)



Hazard Statement

Keep only in the original container. Wash skin thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection. **IF SWALLOWED:** Rinse mouth. **Do NOT induce vomiting.** **IF ON SKIN** (or hair): Remove/ Take off immediately all contaminated clothing. Rinse skin with water/ shower. **IF INHALED:** Remove the affected individual to fresh air and keep at rest in a position comfortable for breathing. **IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/ physician. Wash contaminated clothing before reuse. Absorb spillage to prevent material damage. Store locked up. Store in corrosive resistant stainless-steel container with a resistant inner liner. Dispose of contents/ container to an approved waste disposal plant.

Other Hazards

May be harmful by inhalation, ingestion, or skin absorption

Eye irritation and damage if contact with eye occurs

HMIS rating (scale 0-4)

HEALTH	3
FIRE	0
REACTIVITY	0

3. COMPOSITION/INFORMATION ON INGREDIENTS

• Substances

Hazardous components according to Regulation (EC) No 1272/2008 (CLP):

Vanillin:

Component	Classification	Percentage (weight)
Product Name: 4-Hydroxy-3-methoxybenzaldehyde, Vanillin CAS No 121-33-5	H319 Causes serious eye irritation.	<=100 %

17% Phosphoric Acid

Component	Classification	Percentage (weight)
Orthophosphoric acid, phosphoric acid CAS No 7664-38-2	H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H319 Causes serious eye irritation.	<=100%

For full text of H-statements: see SECTION 16.

FIRST AID MEASURES

• Description of first aid measures

General advice:	Consult a doctor and show this safety data sheet.
If inhaled:	Remove to fresh air and monitor breathing. If breathing becomes difficult, give oxygen. If breathing stops, give artificial respiration. Consult a doctor.
In case of skin contact:	Immediately wash skin with copious amounts of soap and water and rinse thoroughly. Remove contaminated clothing. Consult a doctor.
In case of eye contact:	Flush with copious amounts of water for several minutes. Consult a doctor.
If swallowed:	Rinse mouth with water. Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Consult a doctor.

4. FIRE-FIGHTING MEASURES

- **Classification of substance**

Non-flammable substance.

- **Suitable extinguishing media**

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

- **Protective Equipment**

Wear suitable protective clothing to prevent contact with skin and eyes and self-contained breathing apparatus.

5. ACCIDENTAL RELEASE MEASURES

- **Personal precautions, protective equipment and emergency procedures**

Use standard laboratory practices including proper personal protective equipment. Implement appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

- **Environmental precautions**

Do not let product enter drains.

- **Methods and materials for containment and cleaning up**

Cover spillage with suitable absorbent material. Using non-spark tools, sweep up material and place in an appropriate container. Ventilate area until after disposal is complete. Hold all material for appropriate disposal as described under section 13 of MSDS.

- **Additional information**

None

6. HANDLING AND STORAGE

- **Precautions for safe handling**

No special measures required. No special precautions are necessary if used correctly. Avoid inhalation, contact with eyes, skin and clothing.

- **Conditions for safe storage, including any incompatibilities**

Keep away from direct sunlight. Keep container tightly sealed until ready for use. Recommended storage temperature: Store at 4°C

- **Specific end uses**

None

7. EXPOSURE CONTROLS/PERSONAL PROTECTION

- **Control parameters**

Components with workplace control parameters

Vanillin CAS No 121-33-5	Limit Value				Contains no substances with occupational exposure limit values.
	N/A		N/A		
	ppm	mg/m³	ppm	mg/m³	
United Kingdom	N/A	N/A	N/A	N/A	

17% Phosphoric Acid CAS No 7664-38-2	Limit Value				Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
	8 h		Short term (15 min)		
	ppm	mg/m³	ppm	mg/m³	
United Kingdom	N/A	1	N/A	1	EH40/2005 Workplace exposure limits

- Exposure controls**

Appropriate engineering controls

Ensure all engineering measures described under section 7 of MSDS are in place.
Follow usual standard laboratory practices. Use appropriate personal protective work clothing.

- Personal protective equipment**

Eye / face protection

Use appropriate safety glasses.

Skin protection

Use appropriate chemical resistant gloves. Gloves should be inspected before use.

Wash and dry hands thoroughly after handling.

Body protection

Wear appropriate protective clothing.

Respiratory protection

Respiratory equipment is not required.

8. PHYSICAL AND CHEMICAL PROPERTIES

- Information on basic physical and chemical properties**

Lipid Quantification Reagent

Appearance	Liquid, clear
Vapor pressure	No data available
Vapor density	No data available
Odor	Sweet
Odor threshold	No data available
Relative density	No data available
pH	No data available)
Solubility(ies)	Water-soluble
Melting / freezing point	No data available
Partition coefficient	No data available
Boiling point / range	No data available
Auto-ignition temperature	>400°C
Flash point	No data available
Decomposition temperature	No data available
Evaporation rate	No data available
Viscosity	No data available
Flammability (solid, gas)	No data available
Explosive properties	No data available
Upper / lower flammability or explosive limits	No data available
Oxidising properties	No data available

- Other safety information**

No data available

9. STABILITY AND REACTIVITY

Lipid Quantification Reagent

Reactivity

Stable under recommended transport or storage conditions.

Chemical stability

Stable under recommended storage conditions.

Possibility of hazardous reactions

No data available.

Conditions to avoid

Heat, light.

Incompatible materials

Strong, concentrated acids/alkalis, strong oxidising/reducing agents.

Hazardous decomposition products

In the event of fire see section 5.

10. TOXICOLOGICAL INFORMATION

• Information on toxicological effects

Lipid Quantification Reagent

Acute Toxicity

For the mixture: based on available data, the classification criteria are not met.

Vanillin:

Acute oral toxicity: LD50 rat: 3978mg/kg (RTECS).

Acute inhalation toxicity not listed

Acute dermal toxicity: LD50 Rabbit: 5010mg/kg

atmosphere dust/mist (US-EPA, ECHA).

Symptoms: Inhalation may lead to the formation of edemas in the respiratory tract.

Symptoms may be delayed.

Skin corrosion/irritation

No data available

Serious eye damage/irritation

Irritating to eyes

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Additional Information

For the mixture: based on available data, the classification criteria are not met.

Vanillin

The toxicological effects have not yet been studied.

11. ECOLOGICAL INFORMATION

Lipid Quantification Reagent

Ecotoxicity

For the mixture, no data available.

Vanillin

Toxicity to fish: LC50 (Pimephales promelas) 53-88mg/L/96Hour

Toxicity to daphnia and other aquatic invertebrates: EC50 (Daphnia pulex (Water flea): N/A.

Toxicity to algae/aquatic plants: N/A.).

Toxicity to micro-organisms: EC50 (Photobacterium phosphoreum: 179 mg/l; (Lit.).

Persistence and degradability

No data available

Bioaccumulative potential

For the mixture: No relevant information available.

Mobility in soil

No data available

Results of PBT and vPvB assessment

Not available

Other adverse effects

For the mixture, no data available.

12. DISPOSAL CONSIDERATIONS

• Waste treatment methods

Product	Transfer to a suitable container and arrange for collection by specialized disposal company in accordance with national, regional, or local legislation.
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Contaminated packaging	Dispose in accordance with national, regional, or local legislation.
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13. TRANSPORT INFORMATION

• UN Number

1805

• DOT regulations

Hazard class: Phosphoric acid solution

• Land transport ADR/RID (cross-border)

Not regulated.

• Maritime transport IMDG

Not regulated.

• Marine pollutant

No.

- **Air transport ICAO-TI and IATA-DGR**

1805

- **Transport/Additional information**

Not dangerous according to the above specifications.

- **Environmental hazards**

No.

- **Special precautions for users**

No data available.

14. REGULATORY INFORMATION

- **USA**

TSCA (Toxic Substances Control Act)

The product is not listed.

SARA 313

The product is not listed.

SARA 311/312 Hazards

None known.

CERCLA Reportable Quantity

The product is not reportable under 40 CFR Part 302.4.

California Proposition 65

The product is not listed on California's listing of known or potential carcinogens.

- **EU**

This MSDS was prepared in accordance with Regulation (EC) No.1272/2008 and European Directive 67/548/EEC as amended.
Authorizations and/or restrictions on use:

- **Canada**

Not WHMIS controlled. This MSDS was prepared in accordance with Hazardous Products Regulations (HPR) and WHMIS 2015.

15. OTHER INFORMATION

- **Relevant statements**

- H290 May be corrosive to metals.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.

- **Disclaimer**

THIS PRODUCT IS FOR RESEARCH USE ONLY. NOT INTENDED FOR HUMAN OR ANIMAL DIAGNOSTIC OR THERAPEUTIC USES.

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End of safety data sheet