Natural Addition

Safety Data Sheet

Natural Additions are not classified as dangerous products according to European Union legislation, and they are used as flavourings for food, for example in the brewing of beer. However, this safety data sheet is provided voluntarily according (as appropriate) to the principles of the Classification, Labelling and Packaging Regulations (Regulation (EC) No. 1272/2008).

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1 Product Identifier	**Natural Additions**
1.2 Synonyms	This SDS is applicable to Natural Additions 'Coconut', 'Coriander', 'Honey', 'Smoke', 'Tangerine', Bergamot and 'Tropical'
1.3 Relevant Uses	To be used as a flavouring for foods and beverages. Not for direct consumption as an undiluted product
1.4 Supplier	**BarthHaas / BarthHaas UK**
1.5 Emergency Contact Details	**BarthHaas / BarthHaas UK** Hop Pocket Lane, Paddock Wood, Kent, TN12 6DQ, UK Emergency phone: +44 1892 833 415 (09:00 – 17:30 Mon-Thurs; 09:00 – 16:30 Fri, UK time) Email: enquiries@barthhaas.co.uk

2. HAZARD INDENTIFCATION

2.1 Classification Not classified (Regulation (EC) No 1272/2008)

2.2 Label Elements N/A (not classified)

2.3 Other Hazards None

3. COMPONENTS/INFORMATION ON INGREDIENTS

Component	Concentration (% m/m)	CAS no.	EINECS no.	Hazard classification of the individual component
Propylene glycol (propan-1,2-diol)	59 – 95	57-55-6	200-338-0	Propylene glycol has a workplace exposure limit assigned. It is non hazardous when used as directed. Propylene glycol is registered as a food additive in the European Union as E 1520.

4. FIRST AID MEASURES

4.1 Description of First Aid Methods:

- **Inhalation**
- **Skin Contact**
- **Eye Contact**
- **Oral Ingestion**

- Move the exposed person to fresh air at once. If not breathing give artificial respiration. Obtain medical attention if discomfort continues.
- Wash skin thoroughly with soap and water
- Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult a physician.
- Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth thoroughly provided person is conscious. Consult a physician.

4.2 Most important symptoms and Effects See labelling Section 2.2 and Section 11

4.3 Indications of Immediate Medical No data available

5 FIRE AID MEASURES

5.1 Extinguishing Media Carbon dioxide, water spray, dry powder and alcohol-resistant foam. Do not use full water jet.

5.2 Special Hazards Arising from Substance Will give rise to toxic fumes in fire.

5.3 Advice for Firefighters Firefighters should wear self-contained positive pressure breathing apparatus

6. ACCDIENTAL RELEASE MEASURES

6.1 Personal Protection

Wear appropriate protective clothing – see Section 8.

6.2 Environmental Precautions

Do not discharge onto the ground or into watercourses

6.3 Methods for Cleaning Up

Contain spillage using earth, sand or other inert material.
Transfer to suitable sealed container prior to disposal.
Wash spillage site with water. Do not contaminate water sources or sewer.

7. HANDLING AND STORAGE

7.1 Precautions for Safe Handling

Avoid spilling, skin and eye contact
P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

7.2 Conditions for Safe Storage

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking
P233: Keep container tightly closed.
P403 + P235: Store in a well-ventilated place. Keep cool.
Suitable storage is high-grade stainless steel, glass, aluminium or lacquered steel drums.

7.3 Specific End Uses

The substance is manufactured from food ingredients and it is for use as a processing aid during the manufacture of foodstuffs. It is therefore not subject to registration via REACH (Regulation (EC) No. 1907/2006) for such uses. It should be used in accordance with applicable food legislation.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1 Control Parameters

Components of the preparation for which there are workplace exposure limits:

- Propylene glycol: UK: long term exposure limit, measured as 8-hour time weighted average (TWA) (refs.1.3): 150 ppm (474 mg/m³) for total vapour and particulates; 10 mg/m³ for particulates.
- Propylene glycol is present at 59 - 95 % w/w (see Section 3)

8.2 Exposure Controls:

- **Engineering Controls** – Provide adequate ventilation. Observe the workplace exposure limits and minimize the risk of inhalation of vapours.
- **Eye/Face Protection** – If in danger of splashing, wear chemical goggles.
- **Hand Protection** – Suitable protective gloves if risk of skin contact.
- **Skin Protection** – If danger of splashing, wear PVC or rubber apron
- **Respiratory Protection** – Not normally required

9. PHYSICAL AND CHEMICAL PROPERTIES

a) Physical state	Liquid
b) Color	Clear, transparent to pale yellow
c) Odor	Specific for one particular variety each
d) Melting point/Freezing point	Not practical to measure
e) Boiling point	No data available. Data for propylene glycol: >150 °C (302 °F)
f) Flammability	Flammable liquid (Category 3)
g) Lower and upper explosion limit	No data available. Data for propylene glycol: Heat or flame may cause explosions.
h) Flash point	47 °C
i) Auto-ignition temperature	Not practical to measure
j) Decomposition temperature	No hazardous decomposition when used for its intended use.
k) pH	Not practical to measure
l) Kinematic viscosity	Not practical to measure
m) Solubility	Miscible
n) Partition coefficient n-octanol/water (log value)	Not practical to measure
o) Vapor pressure	No data available. Data for propylene glycol: <10 mbar at 20 °C

p) Density [kg/m³]	1.026 – 1.062
q) Relative vapor density	Not practical to measure
r) Particle characteristics	Not practical to measure

10. STABILITY AND REACTIVITY

10.1 Reactivity	No reactivity hazards known.
10.2 Chemical Stability	Stable if stored according to Section 7.2 and 10.5
10.3 Possibility of Hazardous Reaction	None known
10.4 Conditions to Avoid	Heat, hot surfaces, sparks, open flames and other ignition sources
10.5 Incompatible Materials	Strong oxidizing substances. Strong acids. Strong bases
10.6 Hazardous Decomposition Products	Fire creates carbon monoxide (CO) and carbon dioxide (CO_2).

11. TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity	Not known. The Product contains propylene glycol at 59 – 95 % w/w as indicated in Section 3. Propylene glycol is registered as a food additive in the EU as E 1520. Toxicological data for propylene glycol: LD50 oral rat, mouse 22, 22 $g*kg^{-1}$, respectively (1) Propylene glycol may cause local irritation of skin and mucuous memebranes (1). Spray and vapour in the eyes may cause irritation and smarting (2).
11.2 Skin Corrosion/Irritation	No data available. Contains components that are classified as causing skin irritation – see Section 3.
11.3 Serious Eye Damage/Irritation	No data available. Contains components that are classified as causing skin irritation – see Section 3.
11.4 Respiratory or Skin Sensitization	No data available. Contains components that are classified as causing skin irritation – see Section 3.
11.5 Germ Cell Mutagenicity	No data available

11.6 Carcinogenicity	No data available
11.7 Reproductive Toxicity	No data available
11.8 STOT- Single Exposure	No data available
11.9 STOT-Repeated Exposure	No data available
11.10 Aspiration Hazard	No data available. Contains components that are classified as causing skin irritation – see Section 3.

12. ECOLOGICAL INFORMATION

12.1 Ecotoxicity	No data available. Contains components classified as Chronic Aquatic Category 2 (see Section 3). The concentration of this component indicates a classification of Chronic Aquatic Category 3 for the mixture.
12.2 Persistence and Degradability	No data available. Propylene glycol is biodegradable.
12.3 Bioaccumulative Potential	No data available. The bioconcentration of propylene glycol has been estimated as <1 (1).
12.4 Mobility in Soil	No data available. Miscible with water.
12.5 Results of PBT Exposure:	No data available
12.6 Other Adverse Effects Exposure	No data available

13. DISPOSAL CONSIDERATIONS

13.1 Product Disposal Dispose in accordance with all applicable local and national regulations.

13.2 Container Disposal Labels should not be removed from containers until they have been cleaned. Contaminated containers should not be treated as household waste. Containers should be cleaned using appropriate methods and then re-used or disposed of by landfill or incineration as appropriate.

14. TRANSPORT INFORMATION

14.1 UN-Number 1197

14.2 Class 3

14.3 Shipping name Extracts, flavouring, liquid

14.4 Packing Group III

14.5 Marine pollutant: Not data available

15. REGULATORY INFORMATION

15.1 Safety, Health, and Environmental Regulations Not classified (Regulation (EC) No. 1272/2008)
The substance is a food ingredient and its therefore not subject to registration via REACH (Regulation (EC) No. 1907/2006).

15.2 Chemical Safety Assessments No data available

16. OTHER INFORMATION

The information in this safety data sheet is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on our present knowledge and should be used only as a supplement to information already in your possession concerning this product. It does not represent any guarantee of the properties of the product. The determination of whether and under what condition the product should be used is yours to make. We do not accept any liability for loss, injury or damage that may result from ist use.

References: (1) Dictionary of Substances and their Effects (DOSE), 3rd Electronic Edition, 2005 (Royal Society of Chemistry/.Knovel Corp.) (2) Supplier SDS for propylene glycol. (3) EH40/2005 Workplace Exposure Limits, Health and Safety Executive, 2nd Edition 2011. General references for Pbackground: supplier SDS for grapefruit oil and for lactic acid.