Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 31.05.2018 Version n° 3 Revision: 31.05.2018

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier — **Mixture of pentane-1,2-diol and N,2,3-triméthyl-2-isopropyl butanamide**

Trade Name : Fresh'in Green +

INCI Name : Pentylene Glycol and Methyl Diisopropyl Propionamide

MINASOLVE Code: PFS0030/G

1.2 Relevant identified uses of the substance or mixture and uses advised against — Relevant identifies uses : cosmetic ingredient

1.3 Details of the supplier of the safety data sheet

Minasolve S.A.S.
145, Chemin des Lilas
F-59310 Beuvry-la-Forêt
+33 3 20 64 68 30

E-Mail (Writer SDS) sds@minakem.com

1.4 Emergency telephone number:

+33 3 20 64 68 30 (MINAKEM)
+33 1 45 42 59 59 (INRS - ORFILA)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) No 1272/2008

GHS05 corrosion

Eye Dam. 1 H318 Causes serious eye damage.

GHS07

Acute Tox. 4 H302 Harmful if swallowed.

2.2 Label elements
Labelling according to Regulation (EC) No 1272/2008 — The product is classified and labelled according to the CLP regulation.

Hazard pictograms

GHS05

GHS07

Signal word Danger

Hazard-determining components of labelling: 2-Isopropyl-N,2,3-trimethylbutyramide

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Product identifier **Mixture of pentane-1,2-diol and N,2,3-triméthyl-2-isopropyl butanamide**

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pentane-1,2-diol

Hazard statements
H302 Harmful if swallowed.
H318 Causes serious eye damage.

Precautionary statements

P280	Wear protective gloves/protective clothing/ eye protection/face protection.
P301+P312	IF SWALLOWED: Call a POISON CENTER/ doctor/-/if you feel unwell.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

2.3 Other hazards no data available

SECTION 3: Composition/information on ingredients

3.2 Chemical characterisation: Mixtures

Description: Mixture: consisting of the following components.

Components:

CAS: 5343-92-0 EINECS: 226-285-3	pentane-1,2-diol Eye Dam. 1, H318	50-65%
CAS: 51115-67-4 EINECS: 256-974-4	2-Isopropyl-N,2,3-trimethylbutyramide Acute Tox. 4, H302; Eye Irrit. 2, H319	35-50%

REACH registration number : Pentylene glycol : 01-2119491291-39-0004
Methyl diisopropyl propionamide : 01-2120760168-51-0000

Additional information: For the wording of the listed hazard phrases refer to section 16.

SECTION 4: First aid measures

4.1 Description of first aid measures

After inhalation: Supply fresh air. If required, provide artificial respiration. Consult doctor if symptoms persist.

After skin contact: Remove contaminated clothes, wash affected area with soap and water and rinse thoroughly.
If skin irritation continues, consult a doctor.

After eye contact: Rinse opened eye for several minutes under running water. Then consult a doctor.

After swallowing: Do not induce vomiting; call for medical help immediately.

4.2 Most important symptoms and effects, both acute and delayed no data available

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4.3 Indication of any immediate medical attention and special treatment needed no data available

SECTION 5: Firefighting measures

5.1 Suitable extinguishing agents: CO2, powder or foam

5.2 Special hazards arising from the substance or mixture Formation of toxic gases is possible during heating or in case of fire : CO, NOx.

5.3 Advice for firefighters

Protective equipment: Wear self-contained respiratory protective device.
Wear fully protective suit.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures Use personal protection equipment recommended in section 8

6.2 Environmental precautions: Keep contaminated washing water and dispose of appropriately.
Do not allow to penetrate the ground/soil.

6.3 Methods and material for containment and cleaning up: Send for recovery or disposal in suitable receptacles.

6.4 Reference to other sections See Section 13 for disposal information.

SECTION 7: Handling and storage

7.1 Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Store at room temperature and dry conditions in well sealed receptacles.

7.3 Specific end use(s) no data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters no data available

8.2 Exposure controls
Personal protective equipment:

General protective and hygienic measures: Ensure good ventilation/exhaustion at the workplace.

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Respiratory protection : In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
Suitable respiratory protective device recommended: A respiratory filter

Protection of hands:

Wear protective gloves

Material of gloves (recommendation) : Neoprene or nitrile 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.

Eye protection:

Wear safety goggles

Check that an emergency eyewash facility is available near the handling zone

Body protection:

Wear protective work clothing: safety shoes, apron

Check that a security shower is available near the handling zone

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance:	Liquid
Colour:	Colourless
Odour:	Fresh
Odour threshold:	no data available
pH-value:	no data available
Melting point:	<-20 °C
Initial boiling point and boiling range:	> 200 °C
Evaporation rate:	no data available
Flash point:	no data available
Flammability (solid, gas):	no data available
Decomposition temperature:	no data available
Auto-ignition temperature:	no data available
Explosive properties:	no data available
Explosion limits:	no data available
Oxidising properties:	no data available

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Product identifier **Mixture of pentane-1,2-diol and N,2,3-triméthyl-2-isopropyl butanamide**

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Vapour pressure: no data available

Density:
Relative density at 20 °C: 0.950-0.955 g/cm³
Vapour density: no data available
Solubility(ies)
water: Miscible
alcohols: Very soluble in :
Ethanol
Partition coefficient: n-octanol/water: Pentane-1,2-diol :
Log Kow = 0.06 (25°C)
N,2,3-trimethyl-2-isopropyl butanamide :
Log Kow = 2.7
Viscosity: no data available
9.2 Other information no data available

SECTION 10: Stability and reactivity

10.1 Reactivity no data available

10.2 Chemical stability

Conditions to be avoided: no data available
10.3 Possibility of hazardous reactions no data available
10.4 Conditions to avoid no data available

10.5 Incompatible materials: Bases
Oxidizing agents
Acids
Reducing agents
10.6 Hazardous decomposition products: Formation of toxic gases is possible during heating or in case of fire : CO, NOx.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity Harmful if swallowed.

LD/LC50 values relevant for classification:		
5343-92-0 pentane-1,2-diol		
Oral	LD50 (static)	>5,000 mg/kg (rat)
Dermal	LD50 (static)	>2,000 mg/kg (rat)
Inhalative	LC50/4 h (static)	>7,015 mg/l (rat)
51115-67-4 2-Isopropyl-N,2,3-trimethylbutyramide		
Oral	LD50	500-1,000 mg/kg (rat)

Primary irritant effect:
Skin corrosion/irritation Based on available data, the classification criteria are not met.

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Product identifier **Mixture of pentane-1,2-diol and N,2,3-triméthyl-2-isopropyl butanamide**

(Contd. of page 5)

Serious eye damage/irritation Causes serious eye damage.

Respiratory or skin sensitisation Based on available data, the classification criteria are not met.

Additional toxicological information: no data available

Irritation and corrosivity Skin : pentane-1,2-diol and N,2,3-trimethyl-2-isopropyl butanamide
No irritant effect.

Eyes : pentane-1,2-diol and N,2,3-trimethyl-2-isopropyl butanamide
Strong irritant with the danger of severe eye injury.

Sensitisation Pentane-1,2-diol :
In rat : Not sensitising
In Human : RIPT negative

N,2,3-trimethyl-2-isopropyl butanamide :
No data available

Repeated dose toxicity * Pentane-1,2-diol
Oral NOAEL = 1000 mg/kg/j
Dermal NOAEL = 700 mg/kg/j
* N,2,3-trimethyl-2-isopropyl butanamide
NOEL = 5 mg/kg/j

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)

Germ cell mutagenicity Pentane-1,2-diol and N, 2,3-trimethyl-2-isopropyl butanamide:
=> AMES test negative
N,2,3-trimethyl-2-isopropyl butanamide:
In Vitro Assay of gene mutation (Lymphoma Cell L5178Y mouse): Negative

Carcinogenicity Based on available data, the classification criteria are not met.

Reproductive toxicity Pentane-1,2-diol and N,2,3-trimethyl-2-isopropyl butanamide :
No effects on reproduction
Not teratogenic

STOT-single exposure Based on available data, the classification criteria are not met.

STOT-repeated exposure Based on available data, the classification criteria are not met.

Aspiration hazard Based on available data, the classification criteria are not met.

*
SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity:	
5343-92-0 pentane-1,2-diol	
EC50/48h (static)	>500 mg/l (Daphnia magna)
LC50/96h (static)	>1,000 mg/l (Zebra fish)

12.2 Persistence and degradability

Pentane-1,2-diol :
Readily biodegradable, but failing 10-day window (OECD 301E)

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N,2,3-trimethyl-2-isopropyl butanamide:
Biodegradability predicted: no

12.3 Bioaccumulative potential

Pentane-1,2-diol :
Log Kow = 0.06 (25 °C)
N,2,3-trimethyl-2-isopropyl butanamide :
Log Kow = 2.7

12.4 Mobility in soil

Pentane-1,2-diol :
Koc = 1
Log Koc = 0
=> adsorption on solid phase of soil is not expected
N,2,3-trimethyl-2-isopropyl butanamide :
Koc = 348.7 (Prediction)
Log Koc = 2.542 (Prediction)

12.5 Results of PBT and vPvB assessment

no data available

12.6 Other adverse effects

no data available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Recommendation

Do not allow product to reach sewage system or any water course
Must be specially treated adhering to official regulations.
Incineration according to regulation in force
Do not allow to penetrate the ground/soil

SECTION 14: Transport information

14.1 UN-Number	
ADR, IMDG, IATA	not applicable
14.2 UN proper shipping name	not applicable
14.3 Transport hazard class(es)	not applicable
14.4 Packing group	not applicable
14.5 Environmental hazards:	not applicable
14.6 Special precautions for user	no data available
14.7 Transport in bulk according to Annex II of Marpol and the IBC Code	not applicable
UN "Model Regulation":	Void

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/ legislation specific for the substance or mixture

No further relevant information available.

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Directive 2012/18/EU Named dangerous substances - ANNEX I	None of the ingredients is listed.
15.2 Chemical safety assessment:	A Chemical Safety Assessment has not been carried out.

SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Relevant phrases

H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.

Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonised System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Acute Tox. 4: Acute toxicity – Category 4
Eye Dam. 1: Serious eye damage/eye irritation – Category 1
Eye Irrit. 2: Serious eye damage/eye irritation – Category 2

*** Data compared to the previous version altered.**