



SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 08.11.2018
	SDS Number: R0718207
Vincience / Telosense™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832102	Version: 1.1

Conforms to EU Regulation 1907/2006/EC as amended. - SDSGHS_RW

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

1.1 Product identifier

Trade name : Vincience / Telosense™
biofunctional
™ Trademark, Ashland or its subsidiaries, registered in
various countries

1.2 Recommended use of the chemical and restrictions on use

1.3 Details of the supplier of the safety data sheet Ashland P.O. Box 8619 NL3009 AP, Rotterdam Netherlands +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person EUSMT@ashland.com	1.4 Emergency telephone number 00-800-274-5263-3/001-859-357-3564, or contact your local emergency telephone number at 111 - ENG, SCO, CYM and 0808 808 8000 - NIE (Mo - Fr, 08.00 - 18.00) Product Information +31 10 497 5000 (in the Netherlands), or contact your local CSR contact person
--	---

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture.

2.3 Other hazards

Additional advice

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

No information available.

SECTION 3: Composition/information on ingredients**3.2 Mixtures****Hazardous components**

Chemical Name	CAS-No. EC-No. Registration number	Classification (REGULATION (EC) No 1272/2008)	Concentration (%)
Substances with a workplace exposure limit :			
Glycerol	56-81-5 200-289-5		>= 25 - < 40

SECTION 4: First aid measures**4.1 Description of first aid measures**

- General advice : No hazards which require special first aid measures.
- If inhaled : If breathed in, move person into fresh air.
 If unconscious place in recovery position and seek medical advice.
 If symptoms persist, call a physician.
- In case of skin contact : First aid is not normally required. However, it is recommended that exposed areas be cleaned by washing with soap and water.
- In case of eye contact : Remove contact lenses.
 Protect unharmed eye.
- If swallowed : Do not give milk or alcoholic beverages.
 Never give anything by mouth to an unconscious person.
 If symptoms persist, call a physician.

4.2 Most important symptoms and effects, both acute and delayed

- Symptoms : Signs and symptoms of exposure to this material through



SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 08.11.2018
	SDS Number: R0718207
Vincience / Telosense™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832102	Version: 1.1

breathing, swallowing, and/or passage of the material through the skin may include:
irritation (nose, throat, airways)

4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No hazards which require special first aid measures.

SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Water spray
Foam
Carbon dioxide (CO₂)
Dry chemical

5.2 Special hazards arising from the substance or mixture

Specific hazards during firefighting : If product is heated above its flash point it will produce vapors sufficient to support combustion. Vapors are heavier than air and may travel along the ground and be ignited by heat, pilot lights, other flames and ignition sources at locations near the point of release.
Do not allow run-off from fire fighting to enter drains or water courses.

Hazardous combustion products : Aldehydes
carbon dioxide and carbon monoxide
nitrogen oxides (NO_x)

5.3 Advice for firefighters

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

Specific extinguishing methods : Product is compatible with standard fire-fighting agents.

Further information : Standard procedure for chemical fires.

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.
 Comply with all applicable federal, state, and local regulations.

6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
 Keep in suitable, closed containers for disposal.

6.4 Reference to other sections

For further information see Section 8 and Section 13 of the safety data sheet.

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Advice on safe handling : Smoking, eating and drinking should be prohibited in the application area.
 For personal protection see section 8.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : General industrial hygiene practice.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

Further information on : Use the whole package after opening. If contents are not to be

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

storage conditions : used immediately, open under sterile conditions and store at 2 to 8°C to prevent potential contamination due to handling.

Advice on common storage : No materials to be especially mentioned.

Other data : No decomposition if stored and applied as directed.

7.3 Specific end use(s)

Specific use(s) : No data available

SECTION 8: Exposure controls/personal protection**8.1 Control parameters****Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Glycerol	56-81-5	TWA (Mist.)	10 mg/m3 Mist.	EH40 WEL

8.2 Exposure controls**Engineering measures**

General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal protective equipment

Eye protection : Not required under normal conditions of use. Wear splash-proof safety goggles if material could be misted or splashed into eyes.

Hand protection
 Material : butyl-rubber

Skin and body protection : Wear as appropriate:
 Safety shoes

Respiratory protection : No personal respiratory protective equipment normally required.

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

Appearance	: liquid
Colour	: yellow
Odour	: characteristic
Odour Threshold	: No data available
pH	: 4,0 - 5,0
Melting point/freezing point	: No data available
Boiling point/boiling range	: No data available
Flash point	: 199 °C
Evaporation rate	: No data available
Flammability (solid, gas)	: No data available
Upper explosion limit	: No data available
Lower explosion limit	: No data available
Vapour pressure	: No data available
Relative vapour density	: No data available
Relative density	: No data available
Density	: 1,00 - 1,02 g/cm3
Solubility(ies)	
Water solubility	: soluble
Solubility in other solvents	: No data available

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

Partition coefficient: n-
 octanol/water : No data available

Thermal decomposition : No data available

Viscosity
 Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Oxidizing properties : No data available

9.2 Other information

No data available

SECTION 10: Stability and reactivity**10.1 Reactivity**

No decomposition if stored and applied as directed.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

Hazardous reactions : Product will not undergo hazardous polymerization.

10.4 Conditions to avoid**10.5 Incompatible materials**

Materials to avoid : Strong bases
 Strong oxidizing agents

10.6 Hazardous decomposition products

Hazardous decomposition
 products : acrolein
 Aldehydes
 carbon dioxide and carbon monoxide

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

SECTION 11: Toxicological information**11.1 Information on toxicological effects**

Information on likely routes of exposure : Inhalation
 Skin contact
 Eye Contact
 Ingestion

Acute toxicity

Not classified based on available information.

Components:**GLYCERIN:**

Acute oral toxicity : LD 50 (Rat): 12.600 mg/kg
 Method: OECD Test Guideline 401

Acute inhalation toxicity : LC 50 (Rat): > 570 mg/m³
 Exposure time: 1 h
 Assessment: Not classified as acutely toxic by inhalation under GHS.

Acute dermal toxicity : LD 50 (Rabbit): > 10 g/kg

Skin corrosion/irritation

Not classified based on available information.

Components:**GLYCERIN:**

Result: Not irritating to skin

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Remarks: Unlikely to cause eye irritation or injury.

Components:**GLYCERIN:**

Result: Mildly irritating to eyes

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

Respiratory or skin sensitisation

Skin sensitisation: Not classified based on available information.

Respiratory sensitisation: Not classified based on available information.

Product:

Species: Mouse

Assessment: Did not cause sensitisation on laboratory animals.

Method: Local lymph node assay

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Further information**Product:**

Remarks: No data available

SECTION 12: Ecological information**12.1 Toxicity****Components:**

Glycerol

Toxicity to fish : LC 50 (Goldfish (Carassius auratus)): > 5.000 mg/l
 Exposure time: 24 h
 Method: Static
 Remarks: Mortality

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

Toxicity to daphnia and other aquatic invertebrates : LC 50 (Water flea (Daphnia magna)): > 10.000 mg/l
 Exposure time: 24 h
 Method: Static
 Remarks: Mortality

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: The bioaccumulation potential cannot be determined.

Components:

Glycerol
 Partition coefficient: n-octanol/water : log Pow: -1,76

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Not relevant

12.6 Other adverse effects**Product:**

Additional ecological information : No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods**

Contaminated packaging : Empty remaining contents.

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

SECTION 14: Transport information**SECTION 14: Transport information****14.1 UN number****ADN:****ADR:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:****INTERNATIONAL MARITIME DANGEROUS GOODS:****RID:****14.2 UN proper shipping name****ADN:****ADR:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:****INTERNATIONAL MARITIME DANGEROUS GOODS:****RID:****14.3 Transport hazard class(es)****ADN:****ADR:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:****INTERNATIONAL MARITIME DANGEROUS GOODS:****RID:****14.4 Packing group****ADN:****ADR:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO:****INTERNATIONAL AIR TRANSPORT ASSOCIATION - PASSENGER:****INTERNATIONAL MARITIME DANGEROUS GOODS:****RID:****14.5 Environmental hazards****ADN:** Not applicable

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

ADR: Not applicable

INTERNATIONAL AIR TRANSPORT ASSOCIATION - CARGO: Not applicable

INTERNATIONAL MARITIME DANGEROUS GOODS: Not applicable

RID: Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Ship Type: Not applicable

Hazard code(s): Not applicable

Pollutant Category: Not applicable

Dangerous goods descriptions (if indicated above) may not reflect quantity, end-use or region-specific exceptions that can be applied. Consult shipping documents for descriptions that are specific to the shipment.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

REACH - Candidate List of Substances of Very High Concern for Authorisation (Article 57). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.
 Not applicable

The components of this product are reported in the following inventories:

**SAFETY DATA SHEET**

Revision Date: 07.11.2016

Print Date: 08.11.2018

SDS Number: R0718207

Version: 1.1

Vincience / Telosense™ biofunctional
 ™ Trademark, Ashland or its subsidiaries, registered
 in various countries
 832102

TSCA	: This product is regulated under the United States Food and Drug Act (FDA).
DSL	All components of this product are on the Canadian DSL.
AICS	On the inventory, or in compliance with the inventory
ENCS	Personal care
KECI	Personal care
PICCS	Not in compliance with the inventory
IECSC	On the inventory, or in compliance with the inventory

Inventories

AICS (Australia), DSL (Canada), IECSC (China), REACH (European Union), ENCS (Japan), ISHL (Japan), KECI (Korea), NZIoC (New Zealand), PICCS (Philippines), TSCA (USA)

15.2 Chemical Safety Assessment

No data available

SECTION 16: Other information**Further information**

Revision Date: 07.11.2016

Full text of H-Statements referred to under sections 2 and 3.**Further information**

Other information : The information accumulated herein is believed to be accurate but is not warranted to be whether originating with the company or not. Recipients are advised to confirm in advance of need that the information is current, applicable, and suitable to their circumstances. This SDS has been prepared by Ashland's Environmental Health and Safety Department (+31 10 497 5000).

Sources of key data used to compile the Safety Data Sheet




SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 08.11.2018
	SDS Number: R0718207
Vincience / Telosense™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832102	Version: 1.1

Ashland internal data including own and sponsored test reports
The UNECE administers regional agreements implementing harmonised classification for labelling (GHS) and transport.

List of abbreviations and acronyms that could be, but not necessarily are, used in this safety data sheet :

ACGIH : American Conference of Industrial Hygienists
BEI : Biological Exposure Index
CAS : Chemical Abstracts Service (Division of the American Chemical Society).
CMR : Carcinogenic, Mutagenic or Toxic for Reproduction
FG : Food grade
GHS : Globally Harmonized System of Classification and Labeling of Chemicals.
H-statement : Hazard Statement
IATA : International Air Transport Association.
IATA-DGR : Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO : International Civil Aviation Organization
ICAO-TI (ICAO) : Technical Instructions by the "International Civil Aviation Organization"
IMDG : International Maritime Code for Dangerous Goods
ISO : International Organization for Standardization
logPow : octanol-water partition coefficient
LCxx : Lethal Concentration, for xx percent of test population
LDxx : Lethal Dose, for xx percent of test population.
ICxx : Inhibitory Concentration for xx of a substance
Ecxx : Effective Concentration of xx
N.O.S.: Not Otherwise Specified
OECD : Organization for Economic Co-operation and Development
OEL : Occupational Exposure Limit
P-Statement : Precautionary Statement
PBT : Persistent , Bioaccumulative and Toxic
PPE : Personal Protective Equipment
STEL : Short-term exposure limit
STOT : Specific Target Organ Toxicity
TLV : Threshold Limit Value
TWA : Time-weighted average
vPvB : Very Persistent and Very Bioaccumulative
WEL : Workplace Exposure Level

ABM : Water Hazard Class for the Netherlands
ADR : Agreement concerning the International Carriage of Dangerous Goods by Road.
ADNR: Regulation for the Carriage of Dangerous Substances on the Rhine
CLP : Classification, Labelling and Packaging
CSA : Chemical Safety Assessment

	Page: 15
SAFETY DATA SHEET	Revision Date: 07.11.2016
	Print Date: 08.11.2018
	SDS Number: R0718207
Vincience / Telosense™ biofunctional ™ Trademark, Ashland or its subsidiaries, registered in various countries 832102	Version: 1.1

CSR : Chemical Safety Report

DNEL : Derived No Effect Level.

EINECS : European Inventory of Existing Commercial Chemical Substances.

ELINCS : European List of Notified Chemical Substances

GV: Exposure limits (DK)

PEC : Predicted Effect Concentration

PEL : Permissible Exposure Limits

PNEC : Predicted No Effect Concentration

R-pharse : Risk phrase

REACH : Registration, Evaluation, Authorisation and Restriction of Chemicals

RID : Regulation Concerning the International Transport of Dangerous Goods by Rail

S-pharse: Safety phrase

WGK : German Water Hazard Class