

**\* Monopropylene glycol 1.2- feeding material (feed)**

Date revised: 16.01.2023

# 30004001052

Version: 16 / BE

Master No. M-051

Print date: 2-4-2025

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

### **1.1. Product identifier**

**Trade name**

Monopropylene glycol 1.2- feeding material (feed)

**Registration no.**

EC No.: 200-338-0

REACH-Registration no. 01-2119456809-23-XXXX

CAS No. 57-55-6

**Use of the substance/mixture**

Animal feed

### **1.2. Relevant identified uses of the substance or mixture and uses advised against**

**Identified Uses**

At the moment we have no information available for the identified uses. In the presence of these data will be included in the safety data sheet.

**Uses advised against**

Electronic cigarettes (e-cigarettes). Generation of artificial smoke.

### **1.3. Details of the supplier of the safety data sheet**

**Address**

Vivochem B.V.

Darwin 5

NL 7609 RL Almelo

Telephone no. +31 546 577774

Fax no. +31 546 577701

E-mail address kwaliteit@vivochem.nl

### **1.4. Emergency telephone number**

National poisoning information center (NVIC) +31 (0) 88 755 8000 Only for the purpose of informing medical personnel in case of acute intoxications.

Only for the purpose of informing medical personnel in case of acute intoxications.

## **SECTION 2: Hazards identification**

### **2.1. Classification of the substance or mixture**

This product is not classified hazardous in accordance with EC directives.

### **2.2. Label elements**

**Further supplemental information**

Restricted to professional users

### **2.3. Other hazards**

The product contains no PBT substances. The product contains no vPvB substances. This product does not contain a substance that has endocrine disrupting properties with respect to human. The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

## **SECTION 3: Composition/information on ingredients**

### **3.1. Substances**

**Further ingredients****Propane-1,2-diol**

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**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

If the patient is likely to become unconscious, place and transport in stable sideways position.

**After inhalation**

Ensure supply of fresh air. Irregular breathing/no breathing: artificial respiration. In the event of symptoms take medical treatment.

**After skin contact**

Wash immediately with plenty of water for several minutes. Take off contaminated clothing and wash before reuse. Consult a doctor if skin irritation persists.

**After eye contact**

Separate eyelids, wash the eyes thoroughly with water (15 min.). In case of irritation consult an oculist.

**After ingestion**

Rinse out mouth and give plenty of water to drink. Do not induce vomiting. Get medical advice/attention if you feel unwell.

**4.2. Most important symptoms and effects, both acute and delayed**

No information available.

**4.3. Indication of any immediate medical attention and special treatment needed****Hints for the physician / treatment**

Treat symptomatically

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

Carbon dioxide, Dry chemical extinguisher, Water spray jet, Alcohol-resistant foam

**Non suitable extinguishing media**

Full water jet

**5.2. Special hazards arising from the substance or mixture**

In case of combustion evolution of dangerous gases possible. Carbon monoxide (CO); Carbon dioxide (CO<sub>2</sub>); If a fire breaks out nearby, pressure build-up and danger of bursting are possible.

**5.3. Advice for firefighters**

Use self-contained breathing apparatus. Wear full protective suit.  
Cool endangered containers with water spray jet.

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

Use personal protective clothing. Do not inhale vapours. Do not inhale mist. Ensure adequate ventilation.  
High risk of slipping due to leakage/spillage of product.

**6.2. Environmental precautions**

Do not allow to enter drains or waterways. Do not discharge into the subsoil/soil.

**6.3. Methods and material for containment and cleaning up**

Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr). Rinse away rest with plenty of water. When picked up, treat material as prescribed under Section 13 "Disposal".

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**6.4. Reference to other sections**

Information regarding personal protective measures, see Section 8. Information regarding waste disposal, see Section 13.

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

Ensure adequate ventilation.

**Advice on protection against fire and explosion**

Keep away from sources of ignition. Take action to prevent static discharges.

**7.2. Conditions for safe storage, including any incompatibilities**

Recommended storage temperature < 40 °C

Opaque HDPE-plastic container

Storage class according to TRGS 510 10

Flammable liquids

Protect from heat and direct sunlight. Keep container tightly closed and dry in a cool, well-ventilated place. Protect from atmospheric moisture and water. Product is hygroscopic.

**7.3. Specific end use(s)**

No information available.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Derived No/Minimal Effect Levels (DNEL/DMEL)****Propane-1,2-diol**

Reference substance

Propane-1,2-diol

Derived No Effect Level (DNEL)

Conditions	Worker	Long term	inhalative	Systemic effects
Concentration	168	mg/m <sup>3</sup>		

Propane-1,2-diol

Derived No Effect Level (DNEL)

Conditions	Worker	Long term	inhalative	Local effects
Concentration	10	mg/m <sup>3</sup>		

Propane-1,2-diol

Derived No Effect Level (DNEL)

Conditions	Consumer	Long term	inhalative	Systemic effects
Concentration	50	mg/m <sup>3</sup>		

Propane-1,2-diol

Derived No Effect Level (DNEL)

Conditions	Consumer	Long term	inhalative	Local effects
Concentration	10	mg/m <sup>3</sup>		

**Predicted No Effect Concentration (PNEC)****Propane-1,2-diol**

Reference substance

Propane-1,2-diol

Type of value

PNEC

Type

Water

Concentration

260

mg/l

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Type of value	Propane-1,2-diol	
Type	PNEC	
Concentration	Saltwater	
	26	mg/l
Type of value	Propane-1,2-diol	
Type	PNEC	
Concentration	Sewage treatment plant (STP)	
	20000	mg/l
Type of value	Propane-1,2-diol	
Type	PNEC	
Concentration	Freshwater sediment	
	572	mg/kg TG
Type of value	Propane-1,2-diol	
Type	PNEC	
Concentration	Marine sediment	
	57,2	mg/kg TG
Type of value	Propane-1,2-diol	
Type	PNEC	
Concentration	Soil	
	50	mg/kg TG
Type of value	PNEC	
Type	Marine sediment	
Concentration	26	mg/l
Type of value	PNEC	
Type	sporadic release	
Concentration	183	mg/l

**8.2. Exposure controls****General protective and hygiene measures**

Take off immediately all contaminated clothing. Avoid contact with skin and eyes. Keep separated from food-stuffs and feed-stocks. At work do not eat, drink, smoke or take drugs. Wash hands before breaks and after work. Provide good ventilation of working area (local exhaust ventilation if necessary). Personal protective equipment must comply with the Regulation (EC) No 2016/425 and the resulting CEN standards. The following information on personal protective equipment (PPE) is to be understood as a suggestion. The selection of the necessary PPE must be considered by the employer depending on the activities to be carried out and the local conditions. If it is determined during the on-site risk assessment that there is no danger to the employee, there is no need to wear PPE or the scope of the PPE to be used can be adjusted accordingly.

**Respiratory protection**

In case of insufficient ventilation, wear suitable respiratory equipment. Short term: filter apparatus, combination filter A-P2

**Hand protection**

Appropriate Material	Chloroprene	
Material thickness	>= 0,6	mm
Breakthrough time	>= 480	min

**Eye protection**

Tightly fitting safety glasses

**Body protection**

Clothing as usual in the chemical industry.

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

Physical state	liquid
Colour	colourless
Odour	odourless

**Melting point/freezing point**

Value	<	-20	°C
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**Initial boiling point and boiling range**

Value	186	to	190	°C
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**Flammability (solid, gas)**

No data available

**Upper/lower flammability or explosive limits**

Lower explosion limit	2,6	%(V)
Upper explosion limit	12,5	%(V)

**Flash point**

Value	appr.	104	°C
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**Ignition temperature**

Value	>	400	°C
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**Decomposition temperature**

Remarks	No decomposition if used as prescribed.
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**pH value**

Value	6,5	to	7,5
Concentration/H <sub>2</sub> O	50	%	
Remarks	Not applicable		

**Viscosity****dynamic**

Value	43,4	mPa.s
Temperature	25	°C

**Solubility(ies)**

Medium	Water
Temperature	20 °C
Remarks	Completely miscible

**Partition coefficient: n-octanol/water**

Reference substance	<b>Propane-1,2-diol</b>
log Pow	-1,07
Remarks	Bioaccumulation is not expected

**Vapour pressure**

Value	0,2	hPa
Temperature	25	°C

**Density**

Value	appr.	1,037	g/cm <sup>3</sup>
Temperature	20	°C	

**Vapour density**

Remarks	No data available
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**9.2. Other information****Odour threshold**

Remarks	No data available
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**Evaporation rate**

Remarks No data available

**Explosive properties**

Remarks No data available

**Oxidising properties**

Remarks No data available

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

Under normal conditions of storage and use, hazardous reactions will not occur.

**10.2. Chemical stability**

The product is stable. Protect from atmospheric moisture and water.

**10.3. Possibility of hazardous reactions**

Under normal conditions of storage and use, hazardous reactions will not occur.

**10.4. Conditions to avoid**

Protect from atmospheric moisture and water. Protect from direct sunlight.

**10.5. Incompatible materials**

Reactions with strong acids. Reactions with strong alkalies. Reactions with strong oxidising agents.

**10.6. Hazardous decomposition products**

Carbon monoxide and carbon dioxide, Aldehydes

**SECTION 11: Toxicological information****11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008****Acute oral toxicity (Components)****Propane-1,2-diol**

Species	rat		
LD50	>	2000	mg/kg

**Acute dermal toxicity (Components)****Propane-1,2-diol**

Species	rabbit		
LD50	>	2000	mg/kg

**Acute inhalative toxicity (Components)****Propane-1,2-diol**

Species	rat		
LC50		44,9	mg/l
Duration of exposure		4	h
Source	ECHA		

**Skin corrosion/irritation****Propane-1,2-diol**

evaluation	non-irritant
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**Serious eye damage/irritation****Propane-1,2-diol**

evaluation	slight irritant effect - does not require labelling
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**Sensitization (Components)****Propane-1,2-diol**

evaluation	non-sensitizing
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**Mutagenicity (Components)**

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**Propane-1,2-diol**

No indications of genotoxicity are available.

**Reproduction toxicity (Components)****Propane-1,2-diol**

No indications of toxic effects were observed in reproduction studies in animals.

**Carcinogenicity (Components)****Propane-1,2-diol**

Indications of possible carcinogenic effects are not available.

**Specific Target Organ Toxicity (STOT)****Single exposure****Propane-1,2-diol**

No data available

**Repeated exposure****Propane-1,2-diol**

Organs: Nervous system

**Aspiration hazard**

No information available.

**11.2 Information on other hazards****Endocrine disrupting properties with respect to humans**

The product does not contain a substance that has endocrine disrupting properties with respect to humans.

**SECTION 12: Ecological information****12.1. Toxicity****Fish toxicity (Components)****Propane-1,2-diol**

Species	rainbow trout ( <i>Oncorhynchus mykiss</i> )	
LC50	40613	mg/l
Duration of exposure	96	h

**Daphnia toxicity (Components)****Propane-1,2-diol**

Species	Ceriodaphnia Dubia	
LC50	18340	mg/l
Duration of exposure	48	h
Species	Ceriodaphnia Dubia	
NOEC	13020	mg/l
Duration of exposure	7	d

**Algae toxicity (Components)****Propane-1,2-diol**

Species	Pseudokirchneriella subcapitata	
ErC50	19000	mg/l
Duration of exposure	96	h

**Bacteria toxicity (Components)****Propane-1,2-diol**

Species	Pseudomonas putida	
NOEC	> 20000	mg/l
Duration of exposure	18	h

**12.2. Persistence and degradability****Biodegradability (Components)**

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**Propane-1,2-diol**

Value	81	%
Duration of test evaluation	28 d	
	Readily biodegradable (according to OECD criteria)	
Value	96	%
Duration of test evaluation	64 d	
	Readily biodegradable (according to OECD criteria)	

**12.3. Bioaccumulative potential****Partition coefficient: n-octanol/water**

Reference substance	<b>Propane-1,2-diol</b>
log Pow	-1,07
Remarks	Bioaccumulation is not expected

**Bioconcentration factor (BCF)****Propane-1,2-diol**

BCF	0,09
Remarks	Bioaccumulation is not expected
Source	Estimated value

**12.4. Mobility in soil**

Highly mobile in soils

**12.5. Results of PBT and vPvB assessment****Results of PBT and vPvB assessment**

The Substance does not meet PBT-criteria. This substance does not meet the vPvB-criteria.

**12.6 Endocrine disrupting properties****Endocrine disrupting properties with respect to the environment**

The product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms.

**12.7. Other adverse effects****Behaviour in environment compartments**

No information available.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations for the product**

Allocation of a waste code number, according to the European Waste Catalogue (EWC), should be carried out in agreement with the regional waste disposal company.

Do not allow to enter drains or water courses.

**Disposal recommendations for packaging**

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

**SECTION 14: Transport information**



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	Land transport ADR/RID	Marine transport IMDG/GGVSee	Air transport ICAO/IATA
<b>14.1. UN number</b>	The product does not constitute a hazardous substance in land transport.-	The product does not constitute a hazardous substance in sea transport.-	The product does not constitute a hazardous substance in air transport.-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
<b>14.4. Packing group</b>	-	-	-
Label			
<b>14.5. Environmental hazards</b>	-	-	-

**Information for all modes of transport****14.6. Special precautions for user**

No information available.

**Other information****14.7 Maritime transport in bulk according to IMO instruments**

No data available

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****VOC-Content according to directive 2010/75/EU**

VOC (EU) 100 %

**TA-Luft**

Section 5.2.5: Organic Substances (to be indicated as total carbon; except for substances according 5.2.1.)

**Other information**

The product does not contain substances according to: Candidate List for inclusion in Annex XIV of Regulation (EC) No. 1907/2006 (REACH).

**Registration status****Propane-1,2-diol**

AICS (Australian Inventory of Chemical Substances)	listed
DSL (Canada)	listed
ENCS (Japan)	listed
IECSC (China)	listed
NZIOC(New Zealand)	listed
PICCS (Philippines)	listed
TSCA (USA)	listed

**General non-supported applications**

Generation of artificial smoke/theatrical fogs/artificial snow. Production of tobacco. Manufacture of tobacco products, electronic cigarettes, or marijuana products. Use as an active in pesticides. Use as heat transfer fluids without inhibitors, including as an ingredient in fluids for warming or cooling foods or

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beverages or for heating an enclosed space where personnel exposure is possible. Manufacture of munitions or chemical weapons. Ingredient in cat food

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has been carried out.

**SECTION 16: Other information****Abbreviations**

AC: Article Category  
ACGIH: American Conference of Governmental Industrial Hygienists  
ADN: Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure  
ADNR: Accord européen relatif au transport international des marchandises dangereuses par navigation sur le Rhin  
ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route  
AGW: Arbeitsplatzgrenzwert  
AICS: Australian Inventory of Chemical Substances  
AOX: adsorbable organically bound halogens  
ARW: Arbeitsplatzrichtwert (Germany)  
ASTM: American Society for Testing And Materials  
ATE: acute toxicity estimates  
ATP: Adaptation to technical and scientific progress  
AWsV: Verordnung über Anlagen zum Umgang mit wassergefährdenden Stoffen (Germany)  
BAR: Biologischer Arbeitsstoff-Referenzwert  
BCF: bioconcentration factor  
BetrSichV: Betriebssicherheitsverordnung (Germany)  
BG: Berufsgenossenschaft (Germany)  
BGW: Biologischer Grenzwert  
BLW: Biologischer Leitwert  
BOD: biochemical oxygen demand  
CAS: Chemical Abstracts Service  
cATpE: converted acute toxicity point estimate  
CEA: Comité Européen des Assurances  
CEFIC: European Chemical Industry Council  
CESIO: Comité Européen des Agents de Surface et leurs Intermédiaires Organiques  
ChemG: Chemikaliengesetz (Germany)  
CMR: Cancerogen Mutagen Reprotoxic  
COD: chemical oxygen demand  
DFG: Deutsche Forschungsgemeinschaft  
DIN: german industry standard  
DMEL: Derived minimal effect level  
DNEL: Derived no effect level  
DOC: dissolved organic carbon  
DSL: Canada Domestic Substances List  
EAK: Europäischer Abfallkatalog  
EbC: inhibitory concentration of growth  
EC: effective concentration  
EC: European Community  
ECETOC: European Centre For Ecotoxicology and toxicology of Chemicals  
ECHA: European Chemicals Agency  
EEC: European Economic Community  
EG: Europäische Gemeinschaft  
EH40: List of approved workplace exposure limits  
EINECS: European Inventory of Existing Commercial Chemical Substances  
EKA: Expositionsäquivalente für krebserzeugende Arbeitsstoffe  
EL: effect level  
ELINCS: European List of Notified Chemical Substances  
EmS: Emergency Schedules

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EN: european standards  
ENCS: Japanese Existing and New Chemical Substances Inventory  
ERC: Environmental Release Category  
ErC: inhibitory concentration of the growth rate  
EU: European Union  
EWG: Europäische Wirtschaftsgemeinschaft  
FDA: Food and Drug Administration  
FMVSS: National Highway Traffic Safety Administration  
GefStoffV: Gefahrstoffverordnung  
GGVSee: Gefahrgutverordnung See  
GHS: Globally Harmonized System of classification and Labelling of Chemicals  
IARC: International Agency for Research on Cancer  
IATA: International Air Transport Association  
IBC: Intermediate Bulk Container  
IC: inhibitory concentration  
ICAO: International Civil Aviation Organization  
IECSC: Chinese Chemical Inventory of Existing Chemical Substances  
IMDG: International Maritime Code for Dangerous Goods  
IMO: International Maritime Organization  
INCI: International Nomenclature of Cosmetic Ingredients  
IRPTC: International Register of Potentially Toxic Chemicals  
ISO: International Organization for Standardization  
IUCLID: International Uniform Chemical Information Database  
Cat: category  
KBwS: Kommission zur Bewertung wassergefährdender Stoffe (Germany)  
KECI: Korea Existing Chemicals Inventory  
LC: Lethal concentration  
LD: Lethal dose  
LDLo: lethal dose low  
LGK: storage category  
LL: Lethal level  
LLC: Lowest lethal concentration  
LOAEL: Lowest observed adverse effect level  
LOEC: Lowest observed effect concentration  
LOEL: Lowest observed effect level  
Log pow: logarithm of the distribution coefficient n-octanol / water  
LQ: limited quantity  
MAC: Maximale aanvaarde concentratie (Netherlands)  
MAK: Maximale Arbeitsplatz-Konzentration  
MARPOL 73/78: International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978 (MARPOL: Marine Pollution)  
MEL: Maximum exposure limits  
MITI: Ministry of International Trade and Industry (Japan)  
n.a.g.: nicht anders genannt  
NATEC: Naval Air Technical Data and Engineering Service Command  
NLP: No-longer Polymer  
NOAEC: No observed adverse effect concentration  
NOAEL: no observable adverse effect level  
NOEC: No observable effect concentration  
NOEL: No observable effect level  
NOELR: no observable effect loading rate  
NZIOC: New Zealand Inventory of Chemicals  
OECD: Organisation for Economic Co-operation and Development  
OEL: Occupational exposure limit  
OELV: Occupational exposure limit value  
OES: Occupational exposure standards  
PBT: Persistent, Bioaccumulative and Toxic  
PC: Product Category  
PEC: Predicted environmental concentration

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PICCS: Philippine Inventory of Chemicals and Chemical Substances  
PNEC: predicted no effect concentration  
PNEC: Predicted no effect concentration  
pOW: Octanol-water partition coefficient  
PROC: Process Category  
REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals  
RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses  
RTECS: Registry of Toxic Effects of Chemical Substances  
SAE: Society of Automotive Engineers  
STP: Sewage treatment plant  
SU: Sector of Use  
SUVA: Schweizerische Unfallversicherungsanstalt  
SVHC: Substances of very high concern  
TA Luft: Technische Anleitung zur Reinhaltung der Luft  
ThOD: theoretical oxygen demand  
TRA: targeted risk assessment  
TRG: Technische Regeln Druckgase (Germany)  
TRgA: Technische Regeln für gefährliche Arbeitsstoffe(Germany)  
TRGS: Technische Regeln für Gefahrstoffe  
TRK: Technische Richtkonzentration  
TSCA: Toxic Substances Control Act (USA)  
UN: United Nations  
VbF: Verordnung über brennbare Flüssigkeiten  
VCI: Verband der Chemischen Industrie e.V.  
VDE: Verband der Elektrotechnik, Elektronik und Informtaionstechnik e.V.  
VDI: Verein Deutscher Ingenieure  
VLEP: Valeurs Limites d'exposition Professionnelle  
VOC: Volatile Organic Compound  
vPvB: Very persistent and very bioaccumulative  
VwVwS: Verwaltungsvorschrift wassergefährdende Stoffe  
WEL: Workplace exposure limit  
WGK: water hazard class (Germany)  
WHO: World Health Organization  
WoE: Weight of Evidence

**Supplemental information**

Relevant changes compared with the previous version of the safety data sheet are marked with: \*\*\*  
The information contained in this safety data sheet is based on our current knowledge and experience and describes the product in terms of safety requirements only. This safety data sheet is neither a Certificate of Analysis (CoA) nor a technical data sheet and must not be confused with a specification agreement and does not have the meaning of warranties of characteristics.  
Uses mentioned in this safety data sheet are for general information and do not constitute a contractual agreement on a corresponding nature of the product or on a suitability for intended uses.  
It is the responsibility of the recipient of the product to ensure that any property rights and existing laws and regulations are observed.