

Klar-Pilot - Comfort

Product Reference code:Pilot004

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Issue date: 2/28/2020 Version: 1.00

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

1.1. Product identifier

Product form : Mixture
Name : Klar-Pilot - Comfort
Product code : Pilot004
Type of product : Detergent

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

1.2.1. Relevant identified uses

No additional information available

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Name PILOT GMBH CHEMIE-TECHNIK
Hofstraße 64
40723 Hilden - Germany
Telephone +49 2103 / 960 89-0
Fax +49 2103 / 960 89-29
E-mail Info@pilotgmbh.com
Inquiry office
IFZ Ingenieurbüro und Consulting GmbH
Telephone: +49 30 / 2904897-10

1.4. Emergency telephone number

Emergency number +49 2103 / 960 89-0 (09.00 - 16.00 MEZ)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

Labelling according to Regulation (EC) No. 1272/2008 [CLP]

Precautionary statements (CLP) : P102 - Keep out of reach of children.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
EUH-statements : EUH210 - Safety data sheet available on request.

2.3. Other hazards

No additional information available

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SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Aqueous formulation based on organic solvents and on surfactants

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
propan-2-ol; isopropyl alcohol; isopropanol	(CAS-No.) 67-63-0 (EC-No.) 200-661-7 (EC Index-No.) 603-117-00-0	2 - 7	Flam. Liq. 2, H225 Eye Irrit. 2, H319 STOT SE 3, H336

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Remove soiled clothing.
First-aid measures after inhalation	: Allow affected person to breathe fresh air. Upon irritation of the respiratory tract or mucous membranes (e.g. coughing), indisposition or prolonged exposure, consult a doctor.
First-aid measures after skin contact	: Wash contaminated skin areas thoroughly with soap and water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse immediately with plenty of water, also under the eyelids. If symptoms, consult ophthalmologist.
First-aid measures after ingestion	: Clean mouth with water and drink plenty of water afterwards. If you feel unwell, seek medical advice.

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

Symptoms/effects : No information available.

4.3. Indication of any immediate medical attention and special treatment needed

No information available.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: dry chemical powder, alcohol-resistant foam, carbon dioxide (CO ₂), water spray, sand, earth.
Unsuitable extinguishing media	: high volume water jet.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Vapours are heavier than air and spread at the soil. Pay attention to flashback.
Explosion hazard	: Large quantities: Vapours may form explosive mixture with air.

5.3. Advice for firefighters

Protection during firefighting	: In the event of fire and/or explosion, do not breathe in fumes. Wear self-contained breathing apparatus for fire fighting, if necessary.
Other information	: Water mist may be used to cool closed containers. Contaminated extinguishing water and soil must be disposed of in accordance with official regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid contact with skin and eyes. Slipping hazard due to leakage.

6.1.1. For non-emergency personnel

No additional information available

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Do not flush into surface water or sanitary sewer system. Do not allow material to contaminate ground water system.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Large quantities: Soak up with inert absorbent material. Dispose of the material collected according to regulations.

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6.4. Reference to other sections

Suitable protective equipment: see section 8. Refer to safety instructions (see sections 7 and 8). Dispose of as described in section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : No special action required if used correctly. Do not empty container with pressure, it is not a pressurised container.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store sealed in the original container. Keep containers tightly closed in a cool, well-ventilated place. Protect from heat and direct sunlight.

Heat and ignition sources : Keep away from naked flames/heat.

Information on mixed storage : Store away from strong oxidizers, strong bases, strong acids.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)		
United Kingdom	Local name	Propan-2-ol
United Kingdom	WEL TWA (mg/m ³)	999 mg/m ³
United Kingdom	WEL TWA (ppm)	400 ppm
United Kingdom	WEL STEL (mg/m ³)	1250 mg/m ³
United Kingdom	WEL STEL (ppm)	500 ppm
United Kingdom	Regulatory reference	EH40/2005 (Third edition, 2018). HSE
2-methylpentane-2,4-diol (107-41-5)		
United Kingdom	Local name	2-Methylpentane-2,4-diol
United Kingdom	WEL TWA (mg/m ³)	123 mg/m ³
United Kingdom	WEL TWA (ppm)	25 ppm
United Kingdom	WEL STEL (mg/m ³)	123 mg/m ³
United Kingdom	WEL STEL (ppm)	25 ppm
United Kingdom	Regulatory reference	EH40/2005 (Fourth edition, 2020). HSE

8.2. Exposure controls

Hand protection:

No special measures are necessary when normal, good hygiene is practised. In the case of lengthy skin contact: Protective gloves made of PVC

Eye protection:

Not required. In case of risk of splashing, wear protective glasses.

Skin and body protection:

Not required under normal use.

Respiratory protection:

Not required under normal use.

Other information:

Handle in accordance with good industrial hygiene and safety practice.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: yellow-orange.
Odour	: No data available
Odour threshold	: No data available
pH	: ≈ 7.5
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available

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Freezing point	: No data available
Boiling point	: No data available
Flash point	: > 90 °C
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapour pressure	: < 0.02 hPa 20 °C
Relative vapour density at 20 °C	: No data available
Relative density	: 1.01
Solubility	: No data available
Log Pow	: No data available
Viscosity, kinematic	: 4.1 mm ² /s
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidising properties	: No data available
Explosive limits	: No data available

9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under proper storage and handling.

10.3. Possibility of hazardous reactions

No dangerous reactions known.

10.4. Conditions to avoid

No additional information available

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

LD50 oral rat	5840 mg/kg ECHA Registration Dossier 06.2019
LD50 dermal rat	12800 mg/kg
LD50 dermal rabbit	13900 mg/kg ECHA Registration Dossier 06.2019
LC50 inhalation rat (Vapours - mg/l/4h)	72.6 mg/l/4h

2-methylpentane-2,4-diol (107-41-5)

LD50 oral rat	3700 ml/kg
LD50 dermal rabbit	8000 mg/kg

sodium diisooctyl sulphosuccinate (577-11-7)

LD50 oral rat	> 3100 mg/kg ECHA Registration Dossier 06.2019
LD50 dermal rabbit	> 10000 mg/kg ECHA Registration Dossier 06.2019

fat alcohol polyglycoether (9043-30-5)

LD50 oral rat	1940 mg/kg
LD50 dermal rabbit	> 2000 mg/kg SDB Calbe Chemie 04.2018

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Skin corrosion/irritation	: Not classified pH: ≈ 7.5
Serious eye damage/irritation	: Not classified pH: ≈ 7.5
Additional information	: Contact with eyes may result in irritation.
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

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Viscosity, kinematic	4.1 mm ² /s
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Experience with humans :

SECTION 12: Ecological information

12.1. Toxicity

Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

LC50 fish 1	1400 mg/l
EC50 Daphnia 1	13299 mg/l
ErC50 (algae)	> 1000 mg/l

2-methylpentane-2,4-diol (107-41-5)

LC50 fish 1	8510 mg/l Gambusia affinis ECHA Registraion Dossier 06.2019
EC50 Daphnia 1	5410 mg/l Daphnia magna ECHA-Registration Dossier 06.2019

sodium diisooctyl sulphosuccinate (577-11-7)

LC50 fish 1	28 mg/l
EC50 Daphnia 1	10.3 mg/l Daphnia magna SDB Sigma-Aldrich 04.2016
EC50 72h algae (1)	39.3 mg/l Desmodemus subspicatus SDB Sigma-Aldrich 04.2016

fat alcohol polyglycoether (9043-30-5)

LC50 fish 1	> 1.1 mg/l Danio rerio SDB Sigma-Aldrich 06.2017
EC50 Daphnia 1	> 1 - 10 mg/l Daphnia magna SDB Calbe Chemie 04.2018
EC50 72h algae (1)	1 - 10 mg/l Desmodemus subspicatus SDB Calbe Chemie 04.2018

12.2. Persistence and degradability

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Persistence and degradability	The surface active substances of the product correspond to the requirements of the EC Detergent Regulation (EC/648/2004) concerning ultimate aerobic biodegradation of tensides for washing and cleaning agents.
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12.3. Bioaccumulative potential

propan-2-ol; isopropyl alcohol; isopropanol (67-63-0)

Log Pow	0.05
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2-methylpentane-2,4-diol (107-41-5)

Log Pow	0.58
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sodium diisooctyl sulphosuccinate (577-11-7)

Bioconcentration factor (BCF REACH)	3.78 SDB Sigma-Aldrich 04.2016
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12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

No additional information available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

European List of Waste (LoW) code : 07 06 01* - aqueous washing liquids and mother liquors

SECTION 14: Transport information

In accordance with ADR / RID / IMDG / IATA / ADN

ADR	IMDG	IATA	ADN	RID
14.1. UN number				
not regulated	not regulated	not restricted	not regulated	not regulated
14.2. UN proper shipping name				
not regulated	not regulated	not restricted	not regulated	not regulated
14.3. Transport hazard class(es)				
not regulated	not regulated	not restricted	not regulated	not regulated
14.4. Packing group				
	-			
14.5. Environmental hazards				
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No
No supplementary information available				

14.6. Special precautions for user

- Overland transport

No data available

- Transport by sea

No data available

- Air transport

No data available

- Inland waterway transport

No data available

- Rail transport

No data available

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

VOC content : <= 10 %

Detergent Regulation : Ingredient data sheet:

Component
propan-2-ol; isopropyl alcohol; isopropanol
2-methylpentane-2,4-diol
sodium diisooctyl sulphosuccinate
fat alcohol polyglycoether

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15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

n.a. = not applicable; n.d.= not determined

Data sources : The data of the hazardous ingredients were taken from the last relevant safety data sheet of the subcontractor.

Full text of H- and EUH-statements:

Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Flam. Liq. 2	Flammable liquids, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Narcosis
H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH210	Safety data sheet available on request.

Other information :

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.