

Safety data sheet

according to OSHA - Hazard Communication Standard (HCS) 29 CFR 1910.1200

Printing Date: EN – 01.10.2022

Revision / Date: v2.0 – 01.10.2022

SECTION 1:**Identification of the Substance / Mixture and of the Company / Undertaking****1.1 Product identifier****Trade name:** **DEK PRO****UFI:** 7200-U0CW-500J-QNYV**Product Specification Number + Product Code:**

Refers to DEK Brand Consumables:

Part No.: 173483 / 03129706-01 (1 Litre)

Part No.: 173485 / 03129708-01 (5 Litres)

Part No.: 431093 / 03130223-01 (20 Litres)

Safety Data Sheet Number: ASM TSDS 005 v2.0 EN - US**1.2 Relevant identified uses of the substance or mixture and uses advised against:**

No further relevant information available.

Application of the substance / the mixture: Cleaning Agent / Cleaner**Uses advised against:** None**1.3 Details of the supplier of the Safety Data Sheet Manufacturer / Supplier:**

ASM Assembly Systems GmbH & Co. KG

Rupert-Mayer-Strasse 44

81379 Munich, Germany

Web: <https://www.asm-psp.com/en/>Mail: gsc.printing@asm-smt.com**Informing department:**

Phone: +44 1305 208661

1.4 Emergency telephone number:

Phone: (800) 535 5053

Office hours: 24 hr emergency helpline

SECTION 2: Hazards Identification**2.1 Classification of the substance or mixture****Classification according to Regulation (EC) No 1272/2008**

GHS07

Skin Irrit. 2

H315 Causes skin irritation.

Eye Irrit. 2

H319 Causes serious eye irritation.

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2.2 Label elements**Labelling according to Regulation (EC) No 1272/2008**

The product is classified and labelled according to the CLP regulations.

Hazard pictograms

GHS07

Signal word: Warning**Hazard-determining components of labelling:** 1-butoxypropan-2-ol**Hazard statements**

H315 Causes skin irritation.

H319 Causes serious eye irritation

Precautionary statements

P280 Wear protective gloves / eye protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P302+P352 IF ON SKIN: Wash with plenty of water.

2.3 Other hazards**Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable**SECTION 3: Composition / Information of Ingredients****3.2 Chemical characterisation: Mixtures****Description:** Mixture of the substances with non-hazardous additions.

Dangerous components:			
CAS: 5131-66-8 EINECS: 225-878-4 Reg.nr.: 01-2119475527-28-X		1-butoxypropan-2-ol Skin Irrit. 2 H315 Eye Irrit. 2, H319	>50%

SVHC: None**Additional information:** For the wording of the listed hazard phrases refer to Section 16.

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

Take affected persons out into the fresh air. Immediately remove any clothing soiled by the product.

After inhalation: Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Immediately remove any clothing soiled by the product. Immediately wash with water and soap and rinse thoroughly. Seek medical treatment.

After eye contact:

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

After swallowing:

If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

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

No further relevant information available.

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

No further relevant information available.

SECTION 5: Firefighting Measures**5.1 Extinguishing media****Suitable extinguishing agents:**

Water haze,

Carbon dioxide,

Fire-extinguishing powder,

Alcohol-resistant foam.

For safety reasons unsuitable extinguishing agents: Water with full jet.**5.2 Special hazards arising from the substance or mixture:**

Formation of toxic gases is possible during heating or in case of fire.

5.3 Advice for firefighters**Protective equipment:** Wear self-contained respiratory protective device.**SECTION 6: Accidental Release Measures****6.1 Personal precautions, protective equipment, and emergency procedures**

Wear protective clothing.

Ensure adequate ventilation

6.2 Environmental precautions:

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

Protective Action Criteria for Chemicals:	
PAC-1	None of the ingredients is listed
PAC-2	None of the ingredients is listed
PAC-3	None of the ingredients is listed

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

The usual precautionary measures for handling chemicals should be followed

Information about protection against explosions and fires:

Cool endangered receptacles with water spray. Store in a cool place.

Heat will increase pressure and may lead to the receptacle bursting.

7.2 Conditions for safe storage, including any incompatibilities**Storage:****Requirements to be met by storerooms and receptacles:**

Store in cool, dry conditions in well-sealed receptacles.

Provide floor trough without outlet.

Information about storage in one common storage facility: Not required.**Further information about storage conditions:** Keep container tightly sealed.

Store in cool, dry conditions in well-sealed containers.

7.3 Specific end use(s): No further relevant information available.**SECTION 8: Exposure Controls / Personal Protection****8.1 Control parameters Additional information about design of technical facilities:** No further data; see Section 7.**Ingredients with limit values that require monitoring at the workplace:**

The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

DNELs (Great Britain)		
5131-66-8 1-butoxypropan-2-ol		
Oral	DNEL system. effects (long-term)	8.75 mg/kg KG/Tag (Consumer)
Dermal	DNEL system. effects (long-term)	16.0 mg/kg KG/Tag (Consumer)
		44.0 mg/kg KG/Tag (Worker)
Inhalative	DNEL system. Effects (long-term)	33.8 mg/m ³ KG/Tag (Consumer)
		270.5 mg/m ³ KG/Tag (Worker)
PNECs (Great Britain)		
5131-66-8 1-butoxypropan-2-ol		
PNEC aqua (marine water)		0.0525 mg/l
PNEC (STP)		10 mg/l
PNEC sediment (freshwater)		0.0525 mg/l

Additional information: The lists that were valid during the document creation were used as a basis.

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8.2 Exposure controls**Appropriate engineering controls:** No further data; see Section 7.**Individual protection measures, such as personal protective equipment****General protective and hygienic measures:**

The usual precautionary measures are to be adhered to when handling chemicals.

Immediately remove all soiled and contaminated clothing. Avoid contact with the eyes and skin.

Respiratory protection: Not necessary if room is well-ventilated.**Hands Protection:**

Protective Gloves: The glove material must be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

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 cannot be calculated in advance and has therefore to be checked prior to the application.

Penetration time of glove material

The exact break through time is determined by the manufacture of the protective gloves and must be observed.

Eye protection: Tightly sealed goggles recommended if possibility of liquid splashes exists.**SECTION 9: Physical and Chemical Properties****9.1 Information on basic physical and chemical properties**

General Information	
Appearance:	
Physical state / Form:	Liquid
Colour:	Colourless
Odour:	Specific Type
Odour threshold:	Not determined
pH Value:	Neutral
Melting point / Melting range:	< - 20 °C (<- 68°F)
Boiling point / Boiling range	100 - 171 °C (212 – 339.8°F)
Flash Point:	67 °C (152.6 °F)
Flammability (solid, gaseous):	Not applicable
Danger of explosion:	Product does not present an explosion hazard
Lower and upper explosion limit	Not determined
Auto-ignition temperature	Product is not self-igniting.
Decomposition temperature	Not determined
Kinematic viscosity	Not determined
Dynamic viscosity	Not determined
Solubility in / Miscibility in water:	Partly miscible
Partition coefficient n-octanol/water (log value):	Not determined
Vapour pressure at 20 °C (68°F):	3 hPa (2.3mm Hg)
Density at 20 °C (68°F) to (DIN 51757):	0.89 +/- 0.02 g/cm ³ (7.43 +/- 0.17 lbs/gal)
Relative density:	Not determined
Vapour density:	Not determined

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9.2 Other information

Appearance:	
Form:	Liquid
Important information on protection of health and environment, and on safety	
Ignition temperature:	Not determined
Explosive properties:	Product does not present an explosion hazard.
Change in condition	
Evaporation rate:	Not determined,
Information with regard to physical hazard classes	
Explosives	Void
Flammable gases	Void
Oxidising gases	Void
Gases under pressure	Void
Flammable liquids	Void
Flammable solids:	Void
Self-reactive substances and mixtures:	Void
Pyrophoric liquids:	Void
Pyrophoric solids:	Void
Self-heating substances and mixtures	Void
Substances and mixtures, which emit flammable gases in contact with water.	Void
Oxidising liquids:	Void
Oxidising solids:	Void
Organic peroxides:	Void
Corrosive to metals:	Void
Desensitised explosives:	Void

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SECTION 10: Stability and Reactivity**10.1 Reactivity** No further relevant information available.**10.2 Chemical stability****Thermal decomposition / conditions to be avoided:**

Store in a cool place. Heat will increase pressure and may lead to the receptacle bursting.

10.3 Possibility of hazardous reactions: No dangerous reactions known.**10.4 Conditions to avoid:** No further relevant information available.**10.5 Incompatible materials:** Store away from oxidising agents.**10.6 Hazardous decomposition products:**

No decomposition if used and stored in compliance with instructions.

Additional information: Can be distilled without decomposing at normal pressure.**SECTION 11: Toxicological Information****11.1 Information on toxicological effects****Acute toxicity:** Based on available data, the classification criteria are not met.

LD/LC50 values that are relevant for classification:		
5131-66-8 1-butoxypropan-2-ol		
Oral	LD50	3300 mg/kg (rat)
Dermal	LD50	> 2000 mg/kg (rat)

Skin corrosion/irritation:

Repeated exposure may cause skin dryness or cracking.

Causes skin irritation.

Eye damage/irritation:

Causes serious eye irritation.

Respiratory or skin sensitisation:

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

Additional toxicological information:

Carcinogenicity:	
IARC (International Agency for Research on Cancer)	None of the ingredients are listed
NTP (National Toxicity Program)	None of the ingredients are listed
OSHA-Ca (Occupational Safety & Health Adminstrn.)	None of the ingredients are listed

Germ cell mutagenicity: Based on available data, the classification criteria are not met.**Carcinogenicity:** Based on available data, the classification criteria are not met.**Reproductive toxicity:** Based on available data, the classification criteria are not met.**Specific Target Organ Toxicity (STOT) - single exposure:**

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

Specific Target Organ Toxicity (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.**11.2 Information on hazard classes****Endocrine disrupting properties:** None of the ingredients is listed.

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SECTION 12: Ecological Information**12.1 Toxicity**

Aquatic toxicity:	
5131-66-8 1-butoxypropan-2-ol	
LD50 / 96h (static)	> 560 - 1000 mg/l (Poecilia reticulata)
EC50 / 48h (static)	> 1000 mg/l (daphnia magna)
EC50 / 96h (static)	> 1000 mg/l (selenastrum capricornutum)

12.2 Persistence and degradability: No further relevant information available.**12.3 Bio-accumulative potential:** No further relevant information available.**12.4 Mobility in soil:** No further relevant information available.**Additional ecological information:****12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Endocrine disrupting properties:**

The product does not contain substances with endocrine disrupting properties.

12.7 Other adverse effects**Additional ecological information:****General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

SECTION 13: Disposal Considerations**13.1 Waste treatment methods****Recommendation:** Disposal must be made according to official regulations.**Uncleaned packaging(s):****Recommendation:** Disposal must be made according to official regulations.**Recommended cleansing agents:** Water, if necessary, together with cleansing agents.**SECTION 14: Transport Information**

14.1 UN Number	
DOT	NA1993
14.2 UN proper shipping name	
DOT	COMBUSTIBLE LIQUID, N.O.S.
ADR, ADN, IMDG, IATA	Void
14.3 Transport hazard class(es)	
DOT (Class / Label)	3 Combustible Liquids / 3
ADR, ADN, IMDG, IATA	Void
14.4 Packing group	
DOT	III
ADR, IMDG, IATA	Void
14.5 Environmental hazards:	None.
Marine pollutant:	No
14.6 Special precautions for user:	None
14.7 Maritime transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.
Transport/Additional information:	Not dangerous according to the above specifications.
DOT - Quality limitations:	On passenger aircraft/rail: 60 Litres On cargo aircraft only: 220 Litres
UN "Model Regulation":	Void

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SECTION 15: Regulatory Information

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

No further relevant information available.

SARA

Section 313 (Specific toxic chemical listings): None of the ingredients is listed.**TSCA (Toxic Substances Control Act):** All ingredients have the value – ACTIVE**Hazardous Air Pollutants:** None of the ingredients is listed.

Proposition 65

Chemicals known to cause cancer: None of the ingredients is listed.**Chemicals known to cause reproductive toxicity for females:** None of the ingredients is listed.**Chemicals known to cause reproductive toxicity for males:** None of the ingredients is listed.**Chemicals known to cause developmental toxicity:** None of the ingredients is listed.**New Jersey Right-to-Know List:** None of the ingredients is listed.**New Jersey Special Hazardous Substance List:** None of the ingredients is listed.**Pennsylvania Right-to-Know List:** None of the ingredients is listed.**Pennsylvania Special Hazardous Substance List:** 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

H315 Causes serious skin irritation.

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)

DNEL: Derived No-Effect Level (REACH)

PNEC: Predicted No-Effect Concentration (REACH)

LC50: Lethal concentration (acute toxicity), 50 percent maximal

EC50: Effective concentration (harmful effects), 50 percent maximal

PBT: Persistent, Bio-accumulative and Toxic

SVHC: Substances of Very High Concern

vPvB: very Persistent and very Bio-accumulative

Skin Irrit. 2:: Skin corrosion / irritation – Category 2

Eye Irrit. 2: Serious eye damage/eye irritation - Category 2

WEL: Workplace Exposure Limits –based on data as defined within Great Britain (GB) only

Revision History:

v 1.0 – OSHA SDS in previous OEM format – Jan 2018

v 2.0 – Updated to new SDS template – Oct 2022