

# Safety Data Sheet

In accordance with the criteria of Regulation No 1907/2006 (REACH) as amended

Date of issue: 27.05.2020

Version: 1.0/EN

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

### 1.1 Product identifier

**KASTELL SEPT**

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

Relevant identified uses: liquid intended for surface and hand disinfection.

Uses advised against: not determined.

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

Supplier: **KASTELL SYSTEMY SZCZOTEK PRZEMYSŁOWYCH J. POSCHŁOD,  
P. MAJ Sp. z o.o. Sp. k.**

Address: Urodzajna street 4, 54-067 Wrocław, Poland

Telephone number: +48 713567035

E-mail address for a competent person responsible for SDS: biuro@theta-doradztwo.pl

### 1.4 Emergency telephone number

112

## Section 2: Hazards identification

### 2.1 Classification of the substance or mixture

**Flam. Liq. 2 H225, Eye Irrit. 2 H319**

Highly flammable liquid and vapour. Causes serious eye irritation.

### 2.2 Label elements

Hazard pictograms and signal words



**DANGER**

Dangerous components placed on the label

None.

Hazard statements

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

Precautionary statements

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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

P403+P235 Store in a well-ventilated place. Keep cool.

P501 Dispose of contents/container to properly labeled waste containers according to national law.

### 2.3 Other hazards

Components of the mixture do not meet the criteria for PBT or vPvB in accordance with Annex XIII of REACH Regulation.

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## Section 3: Composition/information on ingredients

### 3.1 Substances

Not applicable.

### 3.2 Mixtures

CAS number: 64-17-5 EC number: 200-578-6 Index number: 603-002-00-5 Registration number: 01-2119457610-43-XXXX	<u>ethanol</u> Flam. Liq. 2 H225, Eye Irrit. 2 H319 <u>specific concentration limits:</u> Eye Irrit. 2 H319: C ≥ 50 %	< 75 %
CAS number: 78-93-3 EC number: 201-159-0 Index number: 606-002-00-3 Registration number: 01-2119457290-43-XXXX	<u>butanone</u> <sup>1)</sup> Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336, EUH066 <sup>2)</sup>	< 3 %
CAS number: 67-63-0 EC number: 200-661-7 Index number: 603-117-00-0 Registration number: 01-2119457558-25-XXXX	<u>propan-2-ol</u> Flam. Liq. 2 H225, Eye Irrit. 2 H319, STOT SE 3 H336	< 3 %

<sup>1)</sup> Substance with a specific value at the Community level of the permissible concentration in the work environment.

<sup>2)</sup> Additional hazard statement code

Full text of each relevant H phrase is given in section 16 of sds.

## Section 4: First aid measures

### 4.1 Description of first aid measures

Skin contact: the product is intended for skin application. Consult a doctor if disturbing symptoms appear.

Eye contact: wash with large amount of clean, lukewarm water for at least 15 minutes with eyelids wide open. Protect non-irritated eye, remove contact lenses. Consult an ophthalmologist if disturbing symptoms appear.

Ingestion: do not induce vomiting. Never give anything by mouth to an unconscious person. Consult a doctor if disturbing symptoms appear.

Inhalation: remove casualty to fresh air, keep the victim warm and calm. If disturbing symptoms occur, consult a doctor.

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

Skin contact: may cause redness, dryness in case of prolonged contact with the product.

Eye contact: redness, tearing, burning sensation, irritation.

Ingestion: possible nausea, vomiting, impaired balance and coordination.

Inhalation: in case of high concentrations of vapours the product may cause slight respiratory irritation.

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

Physician makes a decision regarding further medical treatment after thoroughly examination of the injured. Symptomatic treatment.

## Section 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media: extinguishing powder, foam, water spray.

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Unsuitable extinguishing media: water jet – risk of the propagation of the flame.

## 5.2 Special hazards arising from the substance or mixture

During the fire, the product may produce harmful gases of carbon oxides and other unidentified products of thermal decomposition. Do not inhale combustion products, they can be dangerous for human health.

## 5.3 Advice for firefighters

Highly flammable liquid and vapour. In case of fire, cool endangered containers with water spray from a safe distance. Collect the used extinguishing media. Do not allow them to enter surface water, groundwater or soil. Product vapours are heavier than air and may accumulate in the lower parts of the premises. May create explosive mixtures with air. Personal protection typical in case of fire. Do not stay in the fire zone without self-contained breathing apparatus and protective clothing resistant to chemicals.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Limit the access for the outsiders into the breakdown area, until the suitable cleaning operations are completed. Ensure that only the trained personnel removes the accident and its effects. Use personal protective equipment. Ensure adequate ventilation. Avoid eyes contamination. Prohibit smoking and using open flame. Use non-sparking tools.

### 6.2 Environmental precautions

In case of release of large amounts of the product, it is necessary to take appropriate steps to prevent it from spreading into the environment. Notify relevant emergency services.

### 6.3 Methods and material for containment and cleaning up

Absorb released product with incombustible liquid-binding material (e.g. sand, earth, universal binding agents, silica etc.) and transfer to waste disposal containers. Treat the collected material as waste. Clean and ventilate the contaminated place.

### 6.4 Reference to other sections

Appropriate conduct with waste product – see section 13.  
Personal protective equipment – see section 8.

## Section 7: Handling and storage

### 7.1 Precautions for safe handling

Handle in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Before break and after work wash hands. Avoid eye contamination. Ensure adequate ventilation. Do not allow the vapours to concentrate in air. Eliminate sources of ignition - do not use open flame.

### 7.2 Conditions for safe storage, including any incompatibilities

Keep only in tightly closed, original containers in a dry, cool and well-ventilated area. Storage temperature: 5-15 °C. Do not store with food, feed for animals or incompatible materials (see subsection 10.5). Protect from direct exposure to sunlight, sources of ignition. Opened containers should be resealed and kept upright to prevent leakage. Do not allow the product to enter to the environment (sumps, separators).

### 7.3 Specific end use(s)

No information about other uses than those mentioned in subsection 1.2.

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## Section 8: Exposure controls/personal protection

### 8.1 Control parameters

Specification	TWA 8 hour		STEL 15 min	
	600 mg/m <sup>3</sup>	200 ppm	900 mg/m <sup>3</sup>	300 ppm
butanone [CAS 78-93-3]	600 mg/m <sup>3</sup>	200 ppm	900 mg/m <sup>3</sup>	300 ppm

Legal Basis: Commission Directive 2000/39/EC, 2006/15/EC, 2009/161/EU, 2017/164/EU, 2019/1831/EU.

The table above shows the maximum workplace concentration values at the Community level.

Please check any national occupational exposure limit values in your country.

#### Recommended control procedures

Procedures concerning the control over the dangerous components concentrations in the air and control over the air quality in the workplace - if they are available and justified for the position - in Accordance with the European Standards, with the conditions within the exposure place and a proper test methodology adapted to the working conditions.

#### **DNEL values**

ethanol [CAS 64-17-5]

Workers				
Exposure route	Acute, systemic	Acute, local	Chronic, systemic	Chronic, local
Inhalation	—	1900 mg/m <sup>3</sup>	950 mg/m <sup>3</sup>	—
Skin	—	—	343 mg/kg	—

butanone [CAS 78-93-3]

Workers				
Exposure route	Acute, systemic	Acute, local	Chronic, systemic	Chronic, local
Inhalation	—	—	600 mg/m <sup>3</sup>	—
Skin	—	—	1161 mg/kg	—
General population				
Exposure route	Acute, systemic	Acute, local	Chronic, systemic	Chronic, local
Inhalation	—	—	106 mg/m <sup>3</sup>	—
Skin	—	—	112 mg/kg	—
Oral	—	—	31 mg/kg	—

propan-2-ol [CAS 67-63-0]

Workers				
Exposure route	Acute, systemic	Acute, local	Chronic, systemic	Chronic, local
Inhalation	—	—	500 mg/m <sup>3</sup>	—
Skin	—	—	888 mg/kg	—
General population				
Exposure route	Acute, systemic	Acute, local	Chronic, systemic	Chronic, local
Inhalation	—	—	89 mg/m <sup>3</sup>	—
Skin	—	—	319 mg/kg	—
Oral	—	—	26 mg/kg	—

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## PNEC values

### ethanol [CAS 64-17-5]

fresh water:	0.96 mg/l
marine water:	0.79 mg/l
fresh water sediment:	3.6 mg/kg
marine water sediment:	2.9 mg/kg
sewage treatment plants:	580 mg/l
intermittant release:	2.75 mg/l
soil:	0.63 mg/kg

### butanone [CAS 78-93-3]

fresh water:	55.8 mg/l
marine water:	55.8 mg/l
fresh water sediment:	284.74 mg/kg
marine water sediment:	284.7 mg/kg
soil:	22.5 mg/kg

### propan-2-ol [CAS 67-63-0]

fresh water:	140.9 mg/l
marine water:	140.9 mg/l
fresh water sediment:	552 mg/kg
sewage treatment plants:	2251 mg/l
soil:	28 mg/kg

## 8.2 Exposure controls

Use the product in accordance with good occupational hygiene and safety practices. Do not eat, drink or smoke when using the product. Before break and after work wash hands. Avoid eyes contamination. Take off contaminated clothing and wash it before reuse. Ensure adequate ventilation in a workplace. If there is a risk of inflammation of the clothing on worker, emergency showers for washing entire body and separate eyewash stations should be installed no more than 20 m in a straight line from the working area where these processes are performed.

### Hand and body protection

The product is intended for skin application.

### Eyes protection

Protective glasses are recommended if there is a risk of eye contamination.

### Respiratory protection

Not required in case of adequate ventilation. In the case of emergency situations or exceeding the permissible concentrations use an appropriate respiratory protection equipment.

Personal protective equipment must meet requirements of Regulation (EU) 2016/425. Employer is obliged to ensure equipment adequate to activities carried out, with quality demands, cleaning and maintenance.

### Environmental exposure controls

Avoid release to the environment, do not enter large quantities of the product to the sewage system. In order to avoid an undesirable leakage into a sewage well, use a sorbent sewage cushion or polyurethane sealing mats for the sewage well. Possible emissions from the ventilation systems and processing equipment should be controlled in order to determinate their compatibility with environmental protection regulations.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

physical state:	liquid
colour:	colorless to light yellow
odour:	characteristic

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odour threshold:	not determined
pH:	6.0–8.0
melting point/freezing point:	< 100 °C
initial boiling point and boiling range:	78 °C (data for ethanol)
flash point:	15-20 °C
evaporation rate:	not determined
flammability (solid, gas):	not applicable
upper/lower flammability or explosive limits:	13.5 % vol./2.5 % vol. (data for ethanol)
vapour pressure:	not determined
vapour density:	not determined
density:	0.87 g/cm <sup>3</sup>
solubility(ies):	not determined
partition coefficient: n-octanol/water:	not determined
auto-ignition temperature:	not determined
decomposition temperature:	not determined
explosive properties:	not display
oxidising properties:	not display
viscosity:	not determined

## 9.2 Other information

No additional test results.

## Section 10: Stability and reactivity

### 10.1 Reactivity

Product is reactive. Product vapours may form explosive mixtures with air. See also subsections 10.3-10.5.

### 10.2 Chemical stability

The product is stable under normal conditions of use and storage.

### 10.3 Possibility of hazardous reactions

Hazardous reactions are not known.

### 10.4 Conditions to avoid

Avoid overheating, sources of heat and ignition, direct exposure to sunlight.

### 10.5 Incompatible materials

Strong oxidizing agents, acids, bases, amines.

### 10.6 Hazardous decomposition products

No data.

## Section 11: Toxicological information

### 11.1 Information on toxicological effects

Information regarding acute and/or delayed results of the exposure was defined on the basis of the information on product's classification and/or toxicological studies and the manufacturer's knowledge and experience.

#### Toxicity of components

##### ethanol [CAS 64-17-5]

LC<sub>50</sub> (inhalation, mouse) 39 mg/m<sup>3</sup>/4h

LD<sub>50</sub> (oral, mouse) 3450 mg/kg

LD<sub>50</sub> (oral, rabbit) 6300 mg/kg

##### butanone [CAS 78-93-3]

LC<sub>50</sub> (inhalation, mouse) 40 g/m<sup>3</sup>/2h

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LD<sub>50</sub> (oral, rat) 2737 mg/kg

LD<sub>50</sub> (skin, rabbit) 6480 mg/kg

## **Toxicity of mixture**

### Acute toxicity

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

### Skin corrosion/irritation

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

### Serious eye damage/irritation

Causes serious eye irritation.

### Respiratory or skin sensitisation

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

### 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.

### 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

#### **Toxicity of components**

##### ethanol [CAS 64-17-5]

Toxicity for fish LC<sub>50</sub> 8140 mg/l/48h/*Leuciscus idus melanotus*

Toxicity for invertebrates EC<sub>50</sub> > 10000 mg/l/48h/*Daphnia magna*

Toxicity for algae EC<sub>50</sub> 9310 mg/l/*Chlorella pyrenoidosa*

##### butanone [CAS 78-93-3]

Toxicity for fish LC<sub>50</sub> > 100 mg/l/48h/*Leuciscus idus melanotus*

Toxicity for crustaceans EC<sub>50</sub> > 100 mg/l/48h/*Daphnia magna*

Toxicity for algae EC<sub>50</sub> > 100 mg/l/48h/*Scenedesmus subspicatus*

##### propan-2-ol [CAS 67-63-0]

Toxicity for fish LC<sub>50</sub> 9640 mg/l/96h/*Pimephales promelas*

Toxicity for crustaceans EC<sub>50</sub> > 100 mg/l/48h/*Daphnia magna*

Toxicity for algae EC<sub>50</sub> > 100 mg/l/72h/*Scenedesmus subspicatus*

#### **Toxicity of mixture**

Product is not classified as hazardous for the environment.

### 12.2 Persistence and degradability

#### **Data for components**

##### ethanol [CAS 64-17-5]

The substance is easily biodegradable.

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butanone [CAS 78-93-3]

The substance is easily biodegradable.

## 12.3 Bioaccumulative potential

Bioaccumulation is not expected.

## 12.4 Mobility in soil

Mobility of components of the mixture depends on the hydrophilic and hydrophobic properties and biotic and abiotic conditions of soil, including its structure, climatic conditions, seasons and soil organisms.

## 12.5 Results of PBT and vPvB assessment

Components of the mixture do not meet the criteria for PBT and vPvB.

## 12.6 Other adverse effects

The product is not classified as hazardous for the ozone layer.

## Section 13: Disposal considerations

### 13.1 Waste treatment methods

Disposal methods for the mixture: do not empty into drains. Disposal in accordance with the local legislation. Waste code should be given in the place of waste formation.

Disposal methods for used packing: reuse/recycle/liquidate empty containers in accordance with the legislation in force. Only containers completely empty can be recycled.

Legal basis: Directive 2008/98/EC as amended, 94/62/EC as amended.

## Section 14: Transport information

### 14.1 UN number

UN 1993

### 14.2 UN proper shipping name

FLAMMABLE LIQUID, N.O.S. [ETHANOL]

### 14.3 Transport hazard class(es)

3

### 14.4 Packing group

II

### 14.5 Environmental hazards

Product is not hazardous for environment in accordance with transport regulations.

### 14.6 Special precautions for user

Avoid sources of ignition. Take special care.

### 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

**Regulation (EC) No 1907/2006** of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC as amended.



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**Regulation (EC) No 1272/2008** of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 (Text with EEA relevance) as amended.

**Commission Regulation (EU) No 2015/830** of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) (Text with EEA relevance).

**Directive 2008/98/EC** of the European Parliament and of the Council of 19 November 2008 on waste and repealing certain Directives as amended.

**European Parliament and Council Directive 94/62/EC** of 20 December 1994 on packaging and packaging waste as amended.

**Regulation (EU) No 2016/425** of the European Parliament and of the Council of 9 March 2016 on personal protective equipment and repealing Council Directive 89/686/EEC.

**Commission Directive 2000/39/EC** of 8 June 2000 establishing a first list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

**Commission Directive 2006/15/EC** of 7 February 2006 establishing a second list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Directives 91/322/EEC and 2000/39/EC.

**Commission Directive 2009/161/EU** of 17 December 2009 establishing a third list of indicative occupational exposure limit values in implementation of Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

**Commission Directive 2017/164/EU** of 31 January 2017 establishing a fourth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC, and amending Commission Directives 91/322/EEC, 2000/39/EC and 2009/161/EU.

**Commission Directive 2019/1831/EU** of 24 October 2019 establishing a fifth list of indicative occupational exposure limit values pursuant to Council Directive 98/24/EC and amending Commission Directive 2000/39/EC.

**Regulation (EU) No 528/2012** of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products.

## 15.2 Chemical safety assessment

Under REACH Regulation, there is no obligation to carry out a chemical safety assessment for mixtures.

## Section 16: Other information

### Full text of indicated H phrases mentioned in section 3

H225	Highly flammable liquid and vapour.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
EUH066	Repeated exposure may cause skin dryness or cracking.

### Clarification of aberrations and acronyms

PBT	Persistent, Bioaccumulative and Toxic substance
vPvB	very Persistent, very Bioaccumulative substance
TWA	Time Weighted Average
STEL	Short Term Exposure Limit
DNEL	Derived No Effect Level
PNEC	Predicted No Effect Concentration
Eye Irrit. 2	Eye irritation cat. 2
Flam. Liq. 2	Flammable liquid cat. 2
STOT SE 3	Specific target organ toxicity - single exposure cat. 3

### Trainings

Before commencing working with the product, the user should learn the Health & Safety regulations, regarding handling chemicals, and in particular, undergo a proper workplace training. People associated with transport of hazardous materials in accordance with ADR should be adequately trained for their job responsibilities (general training, bench and safety).

### Key literature references and data sources

This SDS was prepared on the basis of safety data sheets of the individual components, literature data, online databases (e.g. ECHA, TOXNET, COSING) as well as our knowledge and experience, taking into account current legislation.

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## Methods of evaluating information which was used for the purpose of classification

Classification was based on physicochemical properties and data on hazardous substances calculation method under the guidance of Regulation 1272/2008/EC (CLP) as amended.

## Other data

Composed by: mgr Ewelina Strzelecka-Szewc (on the basis of producer's data).

Safety Data Sheet made by: „**THETA**” Doradztwo Techniczne

The information above is based on a current available data concerning the product, but also on the experience and knowledge in this field of the producer. They are neither a quality description of the product nor a guarantee of particular features. They are to be treated as aid to safety in transport, storage and usage of the product. That does not free the user from the responsibility of improper usage of the information above and also of improper compliance with the law norms in the field.