

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ARENAS®-enzyma

Revision date: 19.03.2020

Product code: j6525\_sd

Page 1 of 8

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

### 1.1. Product identifier

ARENAS®-enzyma

UFI: V470-6020-A00T-RT8S

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

#### Use of the substance/mixture

Product for professional cleaning and maintenance

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

Company name: JOHANNES KIEHL KG  
Street: Robert-Bosch-Str. 9  
Place: D-85235 Odelzhausen  
Telephone: +49 8134 9305-0 Telefax: +49 8134 6466  
e-mail: info@kiehl-group.com  
Internet: www.kiehl-group.com  
Responsible Department: Notrufnummer für deutsch- und englischsprachige Länder: +49/89/19240  
Vergiftungsinformationszentrale (VIZ) Österreich: +43 1 406 43 43  
Nationale Notrufnummer für die Schweiz (Tox-Zentrum Zürich): 145  
Numéro d'urgence France: INRS: +33 (0) 1 45 42 59 59  
Numero d' emergenza Italia: Centro Antiveleni - 20162 Milano: 02/66101029  
ETTSZ /Egészségügyi Toxikológiai Tájékoztató Szolgálat/, 1096 Budapest,  
Nagyvárad tér 2. Ügyeleti telefonszám: +36 80 201-199  
Eesti: Häirekeskuse number: 112 / Mürgistusteabekeskuse number: 16662  
Emergency telephone number for all other countries: +49/8134/9305-169

KIEHL Austria GmbH	Perfektastr. 57;	A-1230 Wien	Tel. +43 (0) 1 / 604 99 93
KIEHL FRANCE S.A.R.L.	5, rue de Londres;	F-67670 Mommenheim	Tél. +33 (0) 3.88.59.52.25
KIEHL Italia s.r.l.	Via San Rocco, 101;	I-16036 Recco (GE)	Tel. +39 / 0185 730 008
KIEHL Schweiz AG	St. Dionys-Str. 33;	CH-8645 Jona	Tel. +41 (0) 55 / 254 74 74
KIEHL Hungary Kft.	Felsőipari körút 3/ D	HU-2142 Nagytarcsa	Tel. +36 (0) 1 / 348-08 41
KIEHL Middle East LLC	A8-LIU 48/49 - KIZAD	Abu Dhabi, U.A.E.	Tel. +971 2 550 33 96

### 1.4. Emergency telephone number: +49/89/19240 (germanophone and anglophone)

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No. 1272/2008

Hazard categories:

Serious eye damage/eye irritation: Eye Irrit. 2

Hazard Statements:

Causes serious eye irritation.

### 2.2. Label elements

#### Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



Hazard statements

H319 Causes serious eye irritation.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ARENAS®-enzyma

Revision date: 19.03.2020

Product code: j6525\_sd

Page 2 of 8

#### Precautionary statements

- P280 Wear 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.

#### 2.3. Other hazards

None known.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

##### Chemical characterization

according to 648/2004/CE: nonionic surfactants 15-30%, anionic surfactants 5-15%, soap 5-15%, phosphonates <5%, Polycarboxylates <5%, Optical brighteners, Enzymes, dyes, fragrances (Lilial), Preservative (Benzisothiazolinone)

##### Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	GHS Classification			
69011-36-5	i-C13-Fatty alcohol polyglycol ethers 5-12 EO			10 - 20 %
	931-138-8			
	Acute Tox. 4, Eye Dam. 1; H302 H318			
68891-38-3	Alcohols, C12-14, ethoxylated, sulfated, sodium salts			1 - < 5 %
	500-234-8		01-2119488639-16	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			
97489-15-1	Sodium C14-17 Sec Alkyl Sulfonate			1 - < 5 %
	307-055-2		01-2119489924-20	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412			

Full text of H and EUH statements: see section 16.

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

##### General information

Avoid contact with skin and eyes.

##### After inhalation

not hazardous by inhalation

##### After contact with skin

Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes.

##### After contact with eyes

Rinse thoroughly with plenty of water, also under the eyelids. If eye irritation persists, consult a specialist.

##### After ingestion

Drink plenty of water. Do NOT induce vomiting. If symptoms persist, call a physician.

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

This information is not available.

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

Show this safety data sheet to the doctor in attendance.

### SECTION 5: Firefighting measures

**ARENAS®-enzyma**

Revision date: 19.03.2020

Product code: j6525\_sd

Page 3 of 8

**5.1. Extinguishing media**

**Suitable extinguishing media**

Any extinguishing means and measures are acceptable.

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

This information is not available.

**5.3. Advice for firefighters**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. The product itself does not burn.

**SECTION 6: Accidental release measures**

**6.1. Personal precautions, protective equipment and emergency procedures**

Avoid contact with eyes.

**6.2. Environmental precautions**

Do not flush into surface water.

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

Wipe up with absorbent material (e.g. cloth, fleece). After cleaning, flush away traces with water.

Never return spills in original containers for re-use.

**6.4. Reference to other sections**

Refer to protective measures listed in sections 7 and 8.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Ensure adequate ventilation.

**Advice on protection against fire and explosion**

Not required

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

**Requirements for storage rooms and vessels**

Store at room temperature in the original container. Store in a place accessible by authorized persons only.

**Hints on joint storage**

Keep away from food, drink and animal feedingstuffs.

**Further information on storage conditions**

Keep container tightly closed.

Never return unused material to storage receptacle.

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

This information is not available.

**SECTION 8: Exposure controls/personal protection**

**8.1. Control parameters**

**Additional advice on limit values**

To date, no national critical limit values exist.

**8.2. Exposure controls**

**Appropriate engineering controls**

Not required

**Protective and hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ARENAS®-enzyma

Revision date: 19.03.2020

Product code: j6525\_sd

Page 4 of 8

#### Eye/face protection

Tightly fitting safety goggles

#### Skin protection

Wear suitable protective clothing.

#### Respiratory protection

Not required

#### Environmental exposure controls

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:	red
Odour:	pleasant

pH-Value (at 20 °C):

approx. 9,0 **Test method**  
K-QP1012C

#### Changes in the physical state

Melting point:	<-0 °C
Initial boiling point and boiling range:	>98 °C
Sublimation point:	not applicable
Softening point:	not applicable
Pour point:	not applicable
Flash point:	>60 °C

#### Flammability

Solid:	not applicable
Gas:	not applicable

#### Explosive properties

Not explosive

Lower explosion limits:	not applicable
Upper explosion limits:	not applicable
Ignition temperature:	>200 °C

#### Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable

Decomposition temperature:	not determined
----------------------------	----------------

#### Oxidizing properties

Not relevant

Vapour pressure:	not determined
------------------	----------------

Density (at 20 °C):	1,05 g/cm <sup>3</sup>	K-QP1012E
---------------------	------------------------	-----------

Water solubility: (at 20 °C)	completely miscible
---------------------------------	---------------------

#### Solubility in other solvents

not determined

Partition coefficient:	not determined
------------------------	----------------

Viscosity / dynamic:	not determined
----------------------	----------------

## ARENAS®-enzyma

Revision date: 19.03.2020

Product code: j6525\_sd

Page 5 of 8

Viscosity / kinematic:	not determined
Flow time:	not determined
Vapour density:	not determined
Evaporation rate:	not determined

### 9.2. Other information

Solid content:	not determined
----------------	----------------

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

This information is not available.

### 10.2. Chemical stability

This information is not available.

### 10.3. Possibility of hazardous reactions

This information is not available.

### 10.4. Conditions to avoid

Do not expose to temperatures above 35 °C.

### 10.5. Incompatible materials

This information is not available.

### 10.6. Hazardous decomposition products

No decomposition if stored and applied as directed.

### Further information

Do not mix with other detergents or chemicals.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
69011-36-5	i-C13-Fatty alcohol polyglycol ethers 5-12 EO				
	oral	ATE 500 mg/kg			
97489-15-1	Sodium C14-17 Sec Alkyl Sulfonate				
	oral	ATE 500 mg/kg			

#### Irritation and corrosivity

Causes serious eye irritation.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

#### Sensitising effects

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

#### Carcinogenic/mutagenic/toxic effects for reproduction

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

#### STOT-single exposure

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ARENAS®-enzyma**

Revision date: 19.03.2020

Product code: j6525\_sd

Page 6 of 8

**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.

**Further information**

Health injuries are not known or expected under normal use.

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

No data is available on the product itself.

**12.2. Persistence and degradability**

Contains no substances known to be hazardous to the environment or not degradable in waste water treatment plants. The surfactants in the product meet all requirements of the detergents regulation 648/2004/EC.

**12.3. Bioaccumulative potential**

This information is not available.

**12.4. Mobility in soil**

This information is not available.

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

This information is not available.

**12.6. Other adverse effects**

This information is not available.

**Further information**The organic ingredients can be biodegraded in a sewage plant after neutralization. Chemical Oxygen Demand (COD) 1048 mg O<sub>2</sub>/g**SECTION 13: Disposal considerations****13.1. Waste treatment methods****Disposal recommendations**

Container should be emptied thoroughly. Do not pour remains of product in large quantities into the sewage.

**List of Wastes Code - residues/unused products**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**List of Wastes Code - used product**

070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

**Contaminated packaging**

Clean container with water. Return cleaned containers to the company for recycling. Offer rinsed packaging material to local recycling facilities.

**SECTION 14: Transport information****Land transport (ADR/RID)****14.1. UN number:** not applicable**14.2. UN proper shipping name:** not applicable**14.3. Transport hazard class(es):** not applicable**14.4. Packing group:** not applicable

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

**ARENAS®-enzyma**

Revision date: 19.03.2020

Product code: j6525\_sd

Page 7 of 8

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

Not required

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

not applicable

**Other applicable information**

Not classified as dangerous in the meaning of transport regulations.

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

The product does not need to be labelled in accordance with EC directives or respective national laws.

**National regulatory information**

Water hazard class (D): 2 - obviously hazardous to water

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

This data sheet contains changes from the previous version in section(s): 1

**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 Harmonized 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

LC50: Lethal concentration, 50%

LD50: Lethal dose, 50%

CLP: Classification, labelling and Packaging

REACH: Registration, Evaluation and Authorization of Chemicals

GHS: Globally Harmonised System of Classification, Labelling and Packaging of Chemicals

UN: United Nations

DNEL: Derived No Effect Level

DMEL: Derived Minimal Effect Level

PNEC: Predicted No Effect Concentration

ATE: Acute toxicity estimate

LL50: Lethal loading, 50%

EL50: Effect loading, 50%

EC50: Effective Concentration 50%

ErC50: Effective Concentration 50%, growth rate

NOEC: No Observed Effect Concentration

BCF: Bio-concentration factor

PBT: persistent, bioaccumulative, toxic

vPvB: very persistent, very bioaccumulative

## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### ARENAS®-enzyma

Revision date: 19.03.2020

Product code: j6525\_sd

Page 8 of 8

RID: Regulations concerning the international carriage of dangerous goods by rail

ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways  
(Accord européen relatif au transport international des marchandises dangereuses par voies de navigation intérieures)

EmS: Emergency Schedules

MFAG: Medical First Aid Guide

MARPOL: International Convention for the Prevention of Marine Pollution from Ships

IBC: Intermediate Bulk Container

SVHC: Substance of Very High Concern

For abbreviations and acronyms, see table at <http://abbrev.esdscom.eu>

#### Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H412	Harmful to aquatic life with long lasting effects.

*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*