acc. to OSHA, Appendix D to § 1910.1200

### Cleansmart PowerZyme Liquid

Version number: GHS 1.0 Date of compilation: 2016-07-19

#### **SECTION 1: Identification**

#### 1.1 Product identifier

Trade name Cleansmart PowerZyme Liquid

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

Relevant identified uses enzyme based cleaner

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

Cleansmart Technologies P. O. Box 2126 Loveland, Co. 80539 877-701-5271

Competent person responsible for the SDS Robert Blahnik

#### 1.4 Emergency telephone number

Emergency information service USA 1.800.535.5053, INTL 1.352.323.3500 24 hour emergency telephone number.

#### **SECTION 2: Hazard(s) identification**

#### 2.1 Classification of the substance or mixture

### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Annex	<ul> <li>Hazard class and category</li> </ul>	<ul> <li>Hazard statement code(s)</li> </ul>	
B.6	flammable liquid	Cat. 4 (Flam. Liq. 4)	H227
A.3	serious eve damage/eve irritation	Cat. 2 (Eve Irrit. 2)	H319

#### Remarks

For full text of H-phrases: see SECTION 16.

#### Hazards not otherwise classified

Harmful to aquatic life (GHS category 3: aquatic toxicity - acute).

#### The most important adverse physicochemical, human health and environmental effects

The product is combustible and can be ignited by potential ignition sources.

#### 2.2 Label elements

#### Labelling acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

Signal word warning

#### **Pictograms**

GHS07



#### **Hazard statements**

H227 Combustible liquid.

H319 Causes serious eye irritation.

#### **Precautionary statements**

#### Precautionary statements - prevention

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

Keep container tightly closed. Wash thoroughly after handling.

Wear protective gloves/eve protection/face protection.

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#### Precautionary statements - response

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

If eye irritation persists: Get medical advice/attention.

In case of fire: Use sand, carbon dioxide or powder extinguisher to extinguish.

### Precautionary statements - storage

Store in a well-ventilated place. Keep cool.

#### Precautionary statements - disposal

Dispose of contents/container in accordance with local/regional/national/international regulations.

#### 2.3 Other hazards

This material is combustible, but will not ignite readily.

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

#### 3.1 Substances

not relevant (mixture)

#### 3.2 Mixtures

#### **Description of the mixture**

Name of substance	Identifier	Wt%	Hazard o	class and category	Hazard state- ment
dipropylene glycol monomethyl ether	CAS No 34590-94-8	5 - < 10	B.6	Flam. Liq. 4	H227
enzymes		1 - < 5	A.1O A.2 A.3	Acute Tox. 4 Skin Irrit. 2 Eye Irrit. 2	H302 H315 H319
tetrapotassium pyrophosphate	CAS No 7320-34-5	1 - < 5	A.11 A.3	Acute Tox. 4 Eye Irrit. 2A	H332 H319
Alcohols, C9-11 ethoxylated	CAS No 68439-46-3	1 - < 5	A.1O A.1D A.3	Acute Tox. 4 Acute Tox. 4 Eye Dam. 1	H302 H312 H318
naphthalene	CAS No 91-20-3	<1	B.7 A.10 A.11 A.6	Flam. Sol. 2 Acute Tox. 4 Acute Tox. 1 Carc. 2	H228 H302 H330 H351

For full text of abbreviations: see SECTION 16. Exact percentage of ingredients is withheld as a trade secret.

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#### **SECTION 4: First-aid measures**

#### 4.1

#### **General notes**

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

#### Following inhalation

Provide fresh air.

#### Following skin contact

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water.

#### Following eye contact

Irrigate copiously with clean, fresh water, holding the eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.

#### Following ingestion

Rinse mouth with water (only if the person is conscious). Do NOT induce vomiting.

### SECTION 5: Fire-fighting measures

#### 5.1 Extinguishing media

#### Suitable extinguishing media

water spray, alcohol resistant foam, BC-powder, carbon dioxide (CO2)

#### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

In case of insufficient ventilation and/or in use, may form flammable/explosive vapor-air mixture. Solvent vapors are heavier than air and may spread along floors. Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures.

#### **Hazardous combustion products**

nitrogen oxides (NOx), carbon monoxide (CO), carbon dioxide (CO2)

#### 5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Co-ordinate firefighting measures to the fire surroundings. Do not allow firefighting water to enter drains or water courses. Collect contaminated firefighting water separately. Fight fire with normal precautions from a reasonable distance.

#### **SECTION 6: Accidental release measures**

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

#### For non-emergency personnel

Remove persons to safety.

#### For emergency responders

Wear breathing apparatus if exposed to vapors/dust/aerosols/gases.

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#### 6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose it.

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

#### Advices on how to contain a spill

Covering of drains.

#### Advices on how to clean up a spill

Wipe up with absorbent material (e.g. cloth, fleece). Collect spillage (sawdust, kieselgur (diatomite), sand, universal binder).

#### **Appropriate containment techniques**

Use of adsorbent materials.

#### Other information relating to spills and releases

Place in appropriate containers for disposal. Ventilate affected area.

#### 6.4 Reference to other sections

Hazardous combustion products: see section 5. Personal precautions: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

#### **SECTION 7: Handling and storage**

#### 7.1 Precautions for safe handling

#### Recommendations

#### Measures to prevent fire as well as aerosol and dust generation

Use local and general ventilation. Avoidance of ignition sources. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharge. Use only in well-ventilated areas. Due to danger of explosion, prevent leakage of vapours into cellars, flues and ditches. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools.

#### Warning

Places which are not ventilated, e.g. unventilated below ground level areas such as trenches, conduits and shafts, are particularly prone to the presence of flammable substances or mixtures. Vapors are heavier than air, spread along floors and form explosive mixtures with air. Vapors may form explosive mixtures with air.

#### Advice on general occupational hygiene

Wash hands after use. Do not to eat, drink and smoke in work areas. Remove contaminated clothing and protective equipment before entering eating areas. Never keep food or drink in the vicinity of chemicals. Never place chemicals in containers that are normally used for food or drink. Keep away from food, drink and animal feedingstuffs.

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

#### Managing of associated risks

#### Explosive atmospheres

Keep container tightly closed and in a well-ventilated place. Use local and general ventilation. Keep cool. Protect from sunlight.

#### • Flammability hazards

Keep away from sources of ignition - No smoking. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Take precautionary measures against static discharge. Protect from sunlight.

#### Incompatible substances or mixtures

Observe compatible storage of chemicals.

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#### Control of the effects

Protect against external exposure, such as

frost

Consideration of other advice

**Ventilation requirements** 

Use local and general ventilation. Ground/bond container and receiving equipment.

#### 7.3 Specific end use(s)

See section 16 for a general overview.

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

#### 8.1 Control parameters

#### **National limit values**

Occupational exposure limit values (Workplace Exposure Limits)

Coun- try	Name of agent	CAS No	Identifier	TWA [ppm]	TWA [mg/m³]	STEL [ppm]	STEL [mg/m³]	Source
US	dipropylene glycol methyl ether	34590-94-8	PEL	100	600			29 CFR OSHA
US	naphthalene	91-20-3	PEL	10	50			29 CFR OSHA

#### Notation

STEL Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15-minute period unless other-

wise specifie

TWA Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted av-

erage.

#### Relevant DNELs/DMELs/PNECs and other threshold levels

No data available.

#### 8.2 Exposure controls

#### Appropriate engineering controls

General ventilation.

#### Individual protection measures (personal protective equipment)

#### Eye/face protection

Wear eye/face protection.

#### Skin protection

#### hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. Check leak-tightness/impermeability prior to use. In the case of wanting to use the gloves again, clean them before taking off and air them well. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

#### other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended. Wash hands thoroughly after handling.

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#### **Respiratory protection**

In case of inadequate ventilation wear respiratory protection.

#### **Environmental exposure controls**

Use appropriate container to avoid environmental contamination. Keep away from drains, surface and ground water.

#### **SECTION 9: Physical and chemical properties**

#### 9.1 Information on basic physical and chemical properties

**Appearance** 

Physical state liquid
Color amber
Odor fresh

Other physical and chemical parameters

pH (value) 10 - 10.4 (25 °C) Melting point/freezing point not determined

Initial boiling point and boiling range 100 °C

Flash point 86 °C at 101.3 kPa (closed cup)

Evaporation rate not determined Flammability (solid, gas) not relevant (fluid)

**Explosive limits** 

lower explosion limit (LEL)upper explosion limit (UEL)3 vol%

Vapor pressure 31.69 hPa at 25 °C

Density  $1.015 \, {}^{9}\!/_{cm^3}$  at 25  $\, {}^{\circ}$  C 8.45 lbs/US Gal

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

n-octanol/water (log KOW) this information is not available

Auto-ignition temperature 270 °C

Viscosity not determined

Explosive properties none Oxidizing properties none

#### **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Concerning incompatibility: see below "Conditions to avoid" and "Incompatible materials". The mixture contains reactive substance(s): risk of ignition

· if heated

risk of ignition

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#### 10.2 Chemical stability

See below "Conditions to avoid".

#### 10.3 Possibility of hazardous reactions

No known hazardous reactions.

#### 10.4 Conditions to avoid

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

#### Hints to prevent fire or explosion

Use explosion-proof electrical/ventilating/lighting equipment. Use only non-sparking tools. Take precautionary measures against static discharge.

# Physical stresses which might result in a hazardous situation and have to be avoided strong shocks

Strong Shocks

#### 10.5 Incompatible materials

There is no additional information.

#### 10.6 Hazardous decomposition products

Reasonably anticipated hazardous decomposition products produced as a result of use, storage, spill and heating are not known. Hazardous combustion products: see section 5.

### **SECTION 11: Toxicological information**

#### 11.1 Information on toxicological effects

Test data are not available for the complete mixture.

#### Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

#### Classification acc. to OSHA "Hazard Communication Standard" (29 CFR 1910.1200)

#### **Acute toxicity**

Shall not be classified as acutely toxic.

#### Acute toxicity of components of the mixture

Name of substance	CAS No	Exposure route	ATE
enzymes		oral	569.6 <sup>mg</sup> / <sub>kg</sub>
tetrapotassium pyrophosphate	7320-34-5	inhalation: dust/mist	>1.1 <sup>mg</sup> / <sub>l</sub> /4h
Alcohols, C9-11 ethoxylated	68439-46-3	oral	1,200 <sup>mg</sup> / <sub>kg</sub>
Alcohols, C9-11 ethoxylated	68439-46-3	dermal	2,000 <sup>mg</sup> / <sub>kg</sub>
naphthalene	91-20-3	oral	710 <sup>mg</sup> / <sub>kg</sub>
naphthalene	91-20-3	inhalation: vapor	>0.4 <sup>mg</sup> / <sub>l</sub> /4h
naphthalene	91-20-3	inhalation: dust/mist	0.005 <sup>mg</sup> / <sub>l</sub> /4h

#### Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

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#### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitizer.

#### Summary of evaluation of the CMR properties

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

#### Carcinogenicity

• National Toxicology Program (United States):

none of the ingredients are listed

Name of substance	Name acc. to inventory	CAS No	wt%	Classification
naphthalene	Naphthalene	91-20-3	0.00003686	Reasonably anticipated to be a human carcinogen

IARC Monographs

none of the ingredients are listed

Name of substance	Name acc. to inventory	CAS No	wt%	Classifica- tion	Remarks	Number
naphthalene	Naphthalene	91-20-3	0.000036 86	2B		Volume 82

Legend

2B

Possibly carcinogenic to humans.

#### Specific target organ toxicity (STOT)

Shall not be classified as a specific target organ toxicant.

#### **Aspiration hazard**

Shall not be classified as presenting an aspiration hazard.

#### **SECTION 12: Ecological information**

#### 12.1 Toxicity

Harmful to aquatic life.

#### Aquatic toxicity (acute)

Shall not be classified as hazardous to the aquatic environment.

#### Aguatic toxicity (acute) of components of the mixture

iquatio toxioty (acute) of components of the inixtare					
Name of substance	CAS No	Endpoint	Value	Species	Exposure time
dipropylene glycol mono- methyl ether	34590-94-8	LC50	>150 <sup>mg</sup> / <sub>I</sub>	fish	72 h
dipropylene glycol mono- methyl ether	34590-94-8	ErC50	>969 <sup>mg</sup> / <sub>I</sub>	algae	72 h
tetrapotassium pyrophos- phate	7320-34-5	EC50	>100 <sup>mg</sup> / <sub>I</sub>	aquatic invertebrates	48 h
Alcohols, C9-11 eth- oxylated	68439-46-3	LC50	7 <sup>mg</sup> / <sub>I</sub>	fish	96 h
Alcohols, C9-11 eth- oxylated	68439-46-3	EC50	2.5 <sup>mg</sup> / <sub>I</sub>	aquatic invertebrates	48 h
naphthalene	91-20-3	LC50	6.08 <sup>mg</sup> / <sub>I</sub>	fish	96 h
naphthalene	91-20-3	EC50	2.16 <sup>mg</sup> / <sub>l</sub>	aquatic invertebrates	48 h

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#### **Aquatic toxicity (chronic)**

### Aquatic toxicity (chronic) of components of the mixture

Name of substance	CAS No	Endpoint	Value	Species	Exposure time
naphthalene	91-20-3	LC50	7.76 <sup>mg</sup> / <sub>l</sub>	fish	24 h

#### 12.2 Persistence and degradability

#### Degradability of components of the mixture

Name of substance	CAS No	Process	Degradation rate	Time
dipropylene glycol mono- methyl ether	34590-94-8	oxygen depletion	75 %	10 d
dipropylene glycol mono- methyl ether	34590-94-8	DOC removal	96 %	28 d
dipropylene glycol mono- methyl ether	34590-94-8	carbon dioxide generation	76 %	28 d

#### 12.3 Bioaccumulative potential

Data are not available.

#### Bioaccumulative potential of components of the mixture

Name of substance	CAS No	BCF	Log KOW	BOD5/COD
dipropylene glycol mono- methyl ether	34590-94-8		0.0061	
Alcohols, C9-11 eth- oxylated	68439-46-3		3.75	
naphthalene	91-20-3		3.4	

#### 12.4 Mobility in soil

Data are not available.

#### 12.5 Results of PBT and vPvB assessment

Data are not available.

#### 12.6 Other adverse effects

Data are not available.

#### **SECTION 13: Disposal considerations**

#### 13.1 Waste treatment methods

#### Waste treatment-relevant information

Solvent reclamation/regeneration.

#### Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

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#### Waste treatment of containers/packages

Completely emptied packages can be recycled. Handle contaminated packages in the same way as the substance itself.

#### Remarks

Please consider the relevant national or regional provisions. Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities.

#### **SECTION 14: Transport information**

**14.1** UN number (not subject to transport regulations)

**14.2** UN proper shipping name not relevant

**14.3** Transport hazard class(es)

Class

14.4

Packing group not relevant

14.5 Environmental hazards none (non-environmentally hazardous acc. to the dangerous goods regu-

lations)

14.6 Special precautions for user

**NPCA-HMIS® III** 

There is no additional information.

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

The cargo is not intended to be carried in bulk.

#### **SECTION 15: Regulatory information**

# 15.1 Safety, health and environmental regulations specific for the product in question National regulations (United States)

**Toxic Substance Control Act (TSCA)** 

all ingredients are listed or exempt from listing

#### **SARA TITLE III (Superfund Amendment and Reauthorization Act)**

List of Extremely Hazardous Substances (40 CFR 355) (EPCRA Section none of the ingredients are listed 302 and 304)

Specific Toxic Chemical Listings (40 CFR 372) (EPCRA Section 313) none of the ingredients are listed

Name of substance	CAS No	Remarks	Effective date
naphthalene	91-20-3		1986-12-31

### Industry or sector specific available guidance(s)

Hazardous Materials Identification System (American Coatings Association)

Category	Rating	Description
Chronic	*	Chronic (long-term) health effects may result from repeated overexposure.
Health	2	Temporary or minor injury may occur.
Flammability	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.
Physical hazard	0	Material that is normally stable, even under fire conditions, and will not react with water, polymerize, decompose, condense, or self-react. Non-explosive.
Personal protective equipment	-	

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#### **NFPA® 704**

National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)

Category	Degree of hazard	Description	
Flammability	2	Material that must be moderately heated or exposed to relatively high ambient temperatures before ignition can occur.	
Health	0	Material that, under emergency conditions, would offer no hazard beyond that of ordinary combustible material.	
Instability	0	Material that is normally stable, even under fire conditions.	
Special hazard			

**Right to Know Hazardous Substance List** 

Name of substance	CAS No	Remarks	Classifications
DPM	34590-94-8		F2
naphthalene	91-20-3		CA F2

#### Legend

CA Carcinogenic.

F2 Flammable - Second Degree.

**Proposition 65 List of chemicals** 

none	of the	ingredients a	re listed
110110	01 1110	iliqi calcilis a	i C iiStCa

Name of substance	CAS No	Remarks	Type of the tox- icity
naphthalene	91-20-3		cancer

#### Relevant European Union (EU) safety, health and environmental provisions

Classification according to GHS (1272/2008/EC, CLP)

Hazard class

serious eye damage/eye irritation

Category Hazard class and category

2 (Eye Irrit. 2)

#### SECTION 16: Other information, including date of preparation or last revision

#### 16.2 Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
29 CFR OSHA	29 CFR §1910.1001 - Occupational Safety and Health Standards: Toxic and Hazardous Substances (permissible exposure limits)
Acute Tox.	acute toxicity
ATE	Acute Toxicity Estimate
BCF	BioConcentration Factor
BOD	Biochemical Oxygen Demand
Carc.	carcinogenicity
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
CLP	Regulation (EC) No 1272/2008 on classification, labeling and packaging of substances and mixtures
CMR	Carcinogenic, Mutagenic or toxic for Reproduction

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Abbr.	Descriptions of used abbreviations
COD	chemical oxygen demand
DMEL	Derived Minimal Effect Level
DNEL	Derived No-Effect Level
Eye Dam.	seriously damaging to the eye
Eye Irrit.	irritant to the eye
Flam. Liq.	flammable liquid
Flam. Sol.	flammable solid
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
HMIS	Hazardous Materials Identification System
IARC Monographs	IARC Monographs on the Evaluation of Carcinogenic Risks to Humans
log KOW	n-octanol/water
MARPOL	International Convention for the Prevention of Pollution from Ships (abbr. of "Marine Pollutant)
NFPA® 704	National Fire Protection Association: Standard System for the Identification of the Hazards of Materials for Emergency Response (United States)
NPCA-HMIS® III	National Paint and Coatings Association: Hazardous Materials Identification System - HMIS® III, Third Edition
OSHA	Occupational Safety and Health Administration (United States)
PBT	Persistent, Bioaccumulative and Toxic
PEL	permissible exposure limit
PNEC	Predicted No-Effect Concentration
ppm	parts per million
Skin Corr.	corrosive to skin
Skin Irrit.	irritant to skin
STEL	short-term exposure limit
TWA	time-weighted average
vPvB	very Persistent and very Bioaccumulative

#### 16.3 Key literature references and sources for data

- OSHA Hazard Communication Standard (HCS), 29 CFR 1910.1200
- 49 CFR § 172.101 Hazardous Materials Table (DOT)

#### 16.4 Classification procedure

Physical and chemical properties: The classification is based on tested mixture.

Health hazards/Environmental hazards: The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

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#### 16.5

List of relevant phrases (code and full text as stated in chapter 2 and 3)

Code	Text
H227	combustible liquid
H228	flammable solid
H302	harmful if swallowed
H312	harmful in contact with skin
H315	causes skin irritation
H318	causes serious eye damage
H319	causes serious eye irritation
H330	fatal if inhaled
H332	harmful if inhaled
H351	suspected of causing cancer

#### 16.7 Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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