



Printing date 26.01.2024 Version number 1 Revision: 26.01.2024

SEC

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

· Product identifier

· Trade name: Caspase 3/7

· Article number:

CS1-V0002-1, CSK-V0003-1 Component A, CSK-V0023-1 Component G, CSK-V0024-1 Component G, CSK-A0028-2 Component A

- · Relevant identified uses of the substance or mixture and uses advised against
- · Product category PC21 Laboratory chemicals
- · Application of the substance / the mixture Laboratory chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier:

Revvity Lawrence Mfg Site 360 Merrimack St LAWRENCE, MA 01843

USA

· Further information obtainable from:

US Tech Support (978) 327-5340

Email:

CellC-Support@REVVITY.com

· Emergency telephone number: +1-(978)-327-5340 (8:30 AM - 5:00 PM EST ,M-F)

#### **SECTION 2: Hazards identification**

- · Classification of the substance or mixture
- · Classification according to Regulation (EC) No 1272/2008



GHS08 health hazard

STOT SE 2 H371 May cause damage to organs.

- · Label elements
- · Labelling according to Regulation (EC) No 1272/2008

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

· Hazard pictograms



GHS08

- · Signal word Warning
- · Hazard-determining components of labelling:

dimethyl sulfoxide

· Hazard statements

H371 May cause damage to organs.

· Precautionary statements

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

P102 Keep out of reach of children.

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>50-≤100%

# Safety data sheet according to 1907/2006/EC, Article 31

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P103 Read carefully and follow all instructions.

P260 Do not breathe dust/fume/gas/mist/vapours/spray.

P264 Wash thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor.

P405 Store locked up.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- · Other hazards
- · Results of PBT and vPvB assessment
- · **PBT:** Not applicable.
- · vPvB: Not applicable.

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

- ·Mixtures
- · Description: Mixture of substances listed below with nonhazardous additions.

· Dangerous	components:
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· Additional information: For the wording of the listed hazard phrases refer to section 16.

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

- · Description of first aid measures
- · After inhalation: Supply fresh air; consult doctor in case of complaints.
- · After skin contact: Generally the product does not irritate the skin.
- · After eye contact: Rinse opened eye for several minutes under running water.
- · After swallowing: If symptoms persist consult doctor.
- · Most important symptoms and effects, both acute and delayed No further relevant information available.
- · Indication of any immediate medical attention and special treatment needed

No further relevant information available.

### **SECTION 5: Firefighting measures**

- · Extinguishing media
- · Suitable extinguishing agents:

CO2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

· Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gases are produced.

- · Advice for firefighters
- · Protective equipment: Mouth respiratory protective device.

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

- · Personal precautions, protective equipment and emergency procedures Mount respiratory protective device.
- · Environmental precautions:

Dilute with plenty of water.

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

· Methods and material for containment and cleaning up:

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

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# Safety data sheet according to 1907/2006/EC, Article 31

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Dispose contaminated material as waste according to section 13.

Ensure adequate ventilation.

· 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.

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

· Precautions for safe handling

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

- Information about fire and explosion protection: Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage: Store 2 8°C
- · Specific end use(s) Reserach Use Only

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

- · Control parameters
- · 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.

- · Additional information: The lists valid during the making were used as basis.
- · Exposure controls
- · Appropriate engineering controls No further data; see section 7.
- · Individual protection measures, such as personal protective equipment
- · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

· Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

· Hand protection

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

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

Material of gloves

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

· Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

· Eye/face protection Goggles recommended during refilling

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· Flammable gases

· Oxidising gases

· Flammable solids

· Pyrophoric liquids

· Gases under pressure · Flammable liquids

· Self-reactive substances and mixtures

· Aerosols

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Information on basic physical and chemical prop	erties	
General Information	71.14	
Physical state	Fluid	
Colour:	Clear	
Odour:	Sulfurous	
Odour threshold:	Not determined.	
Melting point/freezing point:	18.45 °C	
Boiling point or initial boiling point and boiling		
range	189 °C	
Flammability	Not applicable.	
Lower and upper explosion limit		
Lower:	1.8 Vol %	
Upper:	63 Vol %	
Flash point:	87 °C	
Auto-ignition temperature:	270 °C	
Decomposition temperature:	Not determined.	
pH	Not determined.	
Viscosity:		
Kinematic viscosity	Not determined.	
Dynamic at 20 °C:	198 mPas	
Solubility		
water:	Fully miscible.	
Partition coefficient n-octanol/water (log value)	Not determined.	
Vapour pressure at 20 °C:	2.5 hPa	
Density and/or relative density		
Density at 20 °C:	$1.1 \text{ g/cm}^3$	
Relative density	Not determined.	
Vapour density	Not determined.	
Other information		
Appearance:		
Form:	Liquid	
Important information on protection of health are environment, and on safety.		
Ignition temperature:	Product is not selfigniting.	
Explosive properties:	Product does not present an explosion hazard.	
Solvent content:	F	
Organic solvents:	>99.0 %	
VOC (EC)	>99.00 %	
Molecular weight	78.13 g/mol	
Change in condition	, 0.15 g moi	
Evaporation rate	Not determined.	

Void

Void

Void

Void Void Void

Void

Void

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· Pyrophoric solids	Void	
· Self-heating substances and mixtures	Void	
· Substances and mixtures, which emit flamm	able	
gases in contact with water	Void	
Oxidising liquids	Void	
Oxidising solids	Void	
Organic peroxides	Void	
Corrosive to metals	Void	
Desensitised explosives	Void	

# **SECTION 10: Stability and reactivity**

- · Reactivity No further relevant information available.
- · Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known.
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: No further relevant information available.
- · Hazardous decomposition products: No dangerous decomposition products known.

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

- · Information on hazard classes as defined in Regulation (EC) No 1272/2008
- · Acute toxicity Based on available data, the classification criteria are not met.
- · LD/LC50 values relevant for classification:

#### 67-68-5 dimethyl sulfoxide

Oral LD50 14,500 mg/kg (rat)

- · Skin corrosion/irritation Based on available data, the classification criteria are not met.
- · Serious eye damage/irritation Based on available data, the classification criteria are not met.
- · 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 May cause damage to organs.
- · 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.
- · Information on other hazards
- · Endocrine disrupting properties

None of the ingredients is listed.

# **SECTION 12: Ecological information**

- · Toxicity
- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.
- · Results of PBT and vPvB assessment
- · PBT: Not applicable.

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- · vPvB: Not applicable.
- Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- · Other adverse effects
- · Additional ecological information:
- · General notes:

Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water

Do not allow product to reach ground water, water course or sewage system.

Danger to drinking water if even small quantities leak into the ground.

# **SECTION 13: Disposal considerations**

- · Waste treatment methods
- · Recommendation

Must not be disposed together with household garbage. Do not allow product to reach sewage system.

· European waste catalogue

HP5 | Specific Target Organ Toxicity (STOT)/Aspiration Toxicity

- · Uncleaned packaging:
- **Recommendation:** Disposal must be made according to official regulations.
- · Recommended cleansing agents: Water, if necessary together with cleansing agents.

SECTION 14: Transport information	
· UN number or ID number · ADR, IMDG, IATA	not regulated
· UN proper shipping name · ADR, IMDG, IATA	not regulated
· Transport hazard class(es)	
· ADR, ADN, IMDG, IATA · Class	not regulated
· Packing group · ADR, IMDG, IATA	not regulated
· Environmental hazards:	Not applicable.
· Special precautions for user	Not applicable.
Maritime transport in bulk according to IMO instruments  Not applicable.	
· UN "Model Regulation":	not regulated

# **SECTION 15: Regulatory information**

- · Directive 2004/42/EC
- · Directive 2012/18/EU
- · Named dangerous substances ANNEX I None of the ingredients is listed.
- · REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

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· DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment - Annex II

None of the ingredients is listed.

· REGULATION (EU) 2019/1148

· Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

None of the ingredients is listed.

· Annex II - REPORTABLE EXPLOSIVES PRECURSORS

None of the ingredients is listed.

Regulation (EC) No 273/2004 on drug precursors

None of the ingredients is listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

None of the ingredients is listed.

· 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

H371 May cause damage to organs.

· Classification according to Regulation (EC) No 1272/2008

Specific target organ toxicity (single exposure) The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

- · Department issuing SDS: Product safety department.
- · Contact: -
- · Date of previous version: 25.01.2024
- · Abbreviations and acronyms:

ADR: Accord relatif au transport international 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)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

STOT SE 2: Specific target organ toxicity (single exposure) - Category 2

\* Data compared to the previous version altered.