

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

## 1 Identification

- **Product identifier**
- **Trade name:** Pure and Conjugated Antibodies, Isotype Controls
- **Article number:**  
KIRAVIA Blue 520 anti-CD3, PE anti-human CD3, APC anti-human CD3, PE anti-human CD4, APC anti-human CD4, PE anti-human CD8, APC anti-human CD8, KIRAVIA Blue 520 Mouse Ig, PE Mouse IgG2a Isotype, APC Mouse IgG2a Isotype, PE Mouse IgG1 Isotype, APC Mouse IgG1 Isotype, PE anti-human CD14, PE anti-human CD19, PE anti-human CD56
- **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
- **Information department:**  
Technical Support  
1 (978) 327-5340  
Email Address  
CellC-Support@REVVITY.COM
- **Emergency telephone number:**  
+1 (978) 327-5340 (8:30 AM - 5:00PM EST, M-F)

## 2 Hazard(s) identification

- **Classification of the substance or mixture**  
The product is not classified, according to the Globally Harmonized System (GHS).
- **Label elements**
- **GHS label elements** Void
- **Hazard pictograms** Void
- **Signal word** Void
- **Hazard statements** Void
- **Other hazards**
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.

## 3 Composition/information on ingredients

- **Chemical characterization:** Mixtures
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** No Hazardous Components

### · Non-hazardous components

|  |                                                  |           |
|--|--------------------------------------------------|-----------|
|  | Pure and Conjugated Antibodies, Isotype Controls | >50–≤100% |
|  | Bovine Serum Albumin                             | ≤2.5%     |

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Trade name: Pure and Conjugated Antibodies, Isotype Controls

26628-22-8 sodium azide

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≤2.5%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **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.
- **Information for 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.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **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).
- **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:

26628-22-8 sodium azide

0.026 mg/m<sup>3</sup>

#### · PAC-2:

26628-22-8 sodium azide

0.29 mg/m<sup>3</sup>

#### · PAC-3:

26628-22-8 sodium azide

5.3 mg/m<sup>3</sup>

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling** No special measures required.
- **Information about protection against explosions and fires:** No special measures required.

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- **Conditions for safe storage, including any incompatibilities**
- **Storage:** Store at 2 - 8°C
- **Specific end use(s)** Research Use Only

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.
- **Control parameters**
- **Components 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 that were valid during the creation were used as basis.
- **Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
The usual precautionary measures for handling chemicals should be followed.
- **Breathing equipment:** Not required.
- **Protection of hands:**  
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 protection:** Goggles recommended during refilling.

### 9 Physical and chemical properties

- **Information on basic physical and chemical properties**
- **General Information**
- **Appearance:**

|                 |                 |
|-----------------|-----------------|
| Form:           | Liquid          |
| Color:          | Clear           |
| Odor:           | Odorless        |
| Odor threshold: | Not determined. |
- **pH-value:** Not determined.
- **Change in condition**

|                              |               |
|------------------------------|---------------|
| Melting point/Melting range: | Undetermined. |
| Boiling point/Boiling range: | Undetermined. |
- **Flash point:** Not applicable.
- **Flammability (solid, gaseous):** Not applicable.
- **Decomposition temperature:** Not determined.

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|                                                   |                                               |
|---------------------------------------------------|-----------------------------------------------|
| · <b>Ignition temperature:</b>                    | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |                                               |
| <b>Lower:</b>                                     | Not determined.                               |
| <b>Upper:</b>                                     | Not determined.                               |
| · <b>Vapor pressure:</b>                          | Not determined.                               |
| · <b>Density:</b>                                 | Not determined.                               |
| · <b>Relative density</b>                         | Not determined.                               |
| · <b>Vapor density</b>                            | Not determined.                               |
| · <b>Evaporation rate</b>                         | Not determined.                               |
| · <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                               |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| · <b>Viscosity:</b>                               |                                               |
| <b>Dynamic:</b>                                   | Not determined.                               |
| <b>Kinematic:</b>                                 | Not determined.                               |
| · <b>Solvent content:</b>                         |                                               |
| <b>VOC content:</b>                               | 0.00 %<br>0.0 g/l / 0.00 lb/gal               |
| <b>Solids content:</b>                            | 0.0 %                                         |
| · <b>Other information</b>                        | No further relevant information available.    |

## 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.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product is not subject to classification according to internally approved calculation methods for preparations:  
When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

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## · Carcinogenic categories

## · IARC (International Agency for Research on Cancer)

None of the ingredients is listed.

## · NTP (National Toxicology Program)

None of the ingredients is listed.

## · OSHA-Ca (Occupational Safety &amp; Health Administration)

None of the ingredients is listed.

## 12 Ecological information

## · Toxicity

· Aquatic toxicity: No further relevant information available.

· Persistence and degradability: No further relevant information available.

## · Behavior in environmental systems:

· Bioaccumulative potential: No further relevant information available.

· Mobility in soil: No further relevant information available.

## · Additional ecological information:

## · General notes:

Water hazard class 1 (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.

## · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

· Other adverse effects: No further relevant information available.

## 13 Disposal considerations

## · Waste treatment methods

## · Recommendation:

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

## · Uncleaned packagings:

· Recommendation: Disposal must be made according to official regulations.

· Recommended cleansing agent: Water, if necessary with cleansing agents.

## 14 Transport information

## · UN-Number

· DOT, IMDG, IATA not regulated

## · UN proper shipping name

· DOT, IMDG, IATA not regulated

## · Transport hazard class(es)

· DOT, ADN, IMDG, IATA

· Class not regulated

## · Packing group

· DOT, IMDG, IATA not regulated

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- |                                                                            |                 |
|----------------------------------------------------------------------------|-----------------|
| · Environmental hazards:                                                   | Not applicable. |
| · Special precautions for user                                             | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL/73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation":                                                   | not regulated   |

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture  
No further relevant information available.

- Sara

- Section 355 (extremely hazardous substances):

|            |              |
|------------|--------------|
| 26628-22-8 | sodium azide |
|------------|--------------|

- Section 313 (Specific toxic chemical listings):

|            |              |
|------------|--------------|
| 26628-22-8 | sodium azide |
|------------|--------------|

- TSCA (Toxic Substances Control Act):

|            |              |
|------------|--------------|
| 26628-22-8 | sodium azide |
|------------|--------------|

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- 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.

- Carcinogenic categories

- EPA (Environmental Protection Agency)

None of the ingredients is listed.

- TLV (Threshold Limit Value)

|            |              |
|------------|--------------|
| 26628-22-8 | sodium azide |
|------------|--------------|

A4

- NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

- GHS label elements Void

- Hazard pictograms Void

- Signal word Void

- Hazard statements Void

- Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### 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.

· **Department issuing SDS:** Product safety department.

· **Date of preparation / last revision** 01/29/2024

· **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

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

· **\* Data compared to the previous version altered.**

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# Safety Data Sheet

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Printing date 01/29/2024

Reviewed on 01/26/2024

## 1 Identification

### · Product identifier

· Trade name: Hoechst 33342

### · Article number:

CS1-0128-5mL, CSK-V0003-1 Component B, CSK-V0005-1 Component B, CSK-V0006-1 Component B, CSK-V0007-1 Component B, CSK-V0007-2 Component B, CSK-A0031-1 Component C, CSK-A0029-1 Component D, CSK-A0029-2 Component D, CSK-A0028-2 Component C, CSK-A0030-1 Component B, CSK-A0030-2 Component B, CSK-A0007-1 Component C, CSK-A0007-2 Component C, CSK-A0009-1 Component E, CSK-A0008-2 Component F, CSK-A0025-1 Component E, CSK-A0025-2 Component E, CSK-A0026-1 Component G, CSK-A0026-2 Component G, CSK-A0031-1 Component E, CSK-A0031-2 Component E, CSK-A0032-1 Component E, CSK-A0032-2 Component E, CSK-A0033-1 Component E, CSK-A0033-2 Component E, CSK-A0001-1 Component C, CSK-A0001-2 Component C, CSK-A0002-1 Component C, CSK-A0002-2 Component C, CSK-A0003-1 Component C, CSK-A0003-2 Component C, CSK-A0004-1 Component C, CSK-A0004-2 Component C, CSK-A0005-2 Component C, CSK-A0006-1 Component C, CSK-A0006-2 Component C, CSK-A0009-2 Component E, CSK-A0012-1 Component E, CSK-A0012-2 Component E, CSK-A0013-1 Component E, CSK-A0013-2 Component E, CSK-A0014-1 Component E, CSK-A0014-2 Component E, CSK-A0024-1 Component E, CSK-A0024-2 Component E, CSK-A0031-2 Component C, CSK-A0032-1 Component C, CSK-A0032-2 Component C, CSK-A0033-1 Component C, CSK-A0033-2 Component C

· 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

#### · Information department:

Technical Support  
1 (978) 327-5340  
Email Address  
CellC-Support@REVVITY.COM

#### · Emergency telephone number:

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

## 2 Hazard(s) identification

### · Classification of the substance or mixture

The product is not classified, according to the Globally Harmonized System (GHS).

### · Label elements

· GHS label elements Void

· Hazard pictograms Void

· Signal word Void

· Hazard statements Void

### · Other hazards

#### · Results of PBT and vPvB assessment

· PBT: Not applicable.

· vPvB: Not applicable.

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Reviewed on 01/26/2024

Trade name: Hoechst 33342

(Contd. of page 1)

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.
- **Dangerous components:** No Hazardous Components

- **Non-hazardous components**

|            |                                                                                                      |           |
|------------|------------------------------------------------------------------------------------------------------|-----------|
| 7732-18-5  | water, distilled, conductivity or of similar purity                                                  | >50–≤100% |
| 23491-52-3 | 2'-(4'-ethoxyphenyl)-5-(4-methylpiperazin-1-yl)-2,5'-bis-1H-benzimidazoletrihydrochloride trihydrate | ≤2.5%     |

### 4 First-aid measures

- **Description of first aid measures**
- **General information:** No special measures required.
- **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.
- **Information for 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.

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- **Advice for firefighters**
- **Protective equipment:** No special measures required.

### 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Not required.
- **Environmental precautions:** No special measures required.
- **Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
- **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.

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Trade name: Hoechst 33342

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· **PAC-3:**

None of the ingredients is listed.

### 7 Handling and storage

· **Handling:**· **Precautions for safe handling** No special measures required.· **Information about protection against explosions and fires:** No special measures required.· **Conditions for safe storage, including any incompatibilities**· **Storage:** Store at (-16°C) - (-24°C)· **Specific end use(s)** Research Use Only

### 8 Exposure controls/personal protection

· **Additional information about design of technical systems:** No further data; see section 7.· **Control parameters**· **Components 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 that were valid during the creation were used as basis.· **Exposure controls**· **Personal protective equipment:**· **General protective and hygienic measures:**

The usual precautionary measures for handling chemicals should be followed.

· **Breathing equipment:** Not required.· **Protection of hands:**

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 protection:** Goggles recommended during refilling.

### 9 Physical and chemical properties

· **Information on basic physical and chemical properties**· **General Information**· **Appearance:**· **Form:** Fluid· **Color:** Yellow· **Odor:** Odorless· **Odor threshold:** Not determined.

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|                                                   |                                               |
|---------------------------------------------------|-----------------------------------------------|
| · <b>pH-value:</b>                                | Not determined.                               |
| · <b>Change in condition</b>                      |                                               |
| <b>Melting point/Melting range:</b>               | 0 °C (32 °F)                                  |
| <b>Boiling point/Boiling range:</b>               | Undetermined.                                 |
| · <b>Flash point:</b>                             | Not applicable.                               |
| · <b>Flammability (solid, gaseous):</b>           | Not applicable.                               |
| · <b>Decomposition temperature:</b>               | Not determined.                               |
| · <b>Ignition temperature:</b>                    | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |                                               |
| <b>Lower:</b>                                     | Not determined.                               |
| <b>Upper:</b>                                     | Not determined.                               |
| · <b>Vapor pressure at 20 °C (68 °F):</b>         | 23 hPa (17.3 mm Hg)                           |
| · <b>Density at 20 °C (68 °F):</b>                | 1 g/cm <sup>3</sup> (8.345 lbs/gal)           |
| · <b>Relative density</b>                         | Not determined.                               |
| · <b>Vapor density</b>                            | Not determined.                               |
| · <b>Evaporation rate</b>                         | Not determined.                               |
| · <b>Solubility in / Miscibility with Water:</b>  | Not miscible or difficult to mix.             |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| · <b>Viscosity:</b>                               |                                               |
| <b>Dynamic:</b>                                   | Not determined.                               |
| <b>Kinematic:</b>                                 | Not determined.                               |
| · <b>Solvent content:</b>                         |                                               |
| <b>Water:</b>                                     | 99.0 %                                        |
| <b>VOC content:</b>                               | 0.00 %                                        |
|                                                   | 0.0 g/l / 0.00 lb/gal                         |
| <b>Solids content:</b>                            | 0.0 %                                         |
| · <b>Other information</b>                        | No further relevant information available.    |

## 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.

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Trade name: Hoechst 33342

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### 11 Toxicological information

- **Information on toxicological effects**

- **Acute toxicity:**

- **Primary irritant effect:**

- **on the skin:** No irritant effect.

- **on the eye:** No irritating effect.

- **Sensitization:** No sensitizing effects known.

- **Additional toxicological information:**

The product is not subject to classification according to internally approved calculation methods for preparations:

When used and handled according to specifications, the product does not have any harmful effects according to our experience and the information provided to us.

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

\*

### 12 Ecological information

- **Toxicity**

- **Aquatic toxicity:** No further relevant information available.

- **Persistence and degradability** No further relevant information available.

- **Behavior in environmental systems:**

- **Bioaccumulative potential** No further relevant information available.

- **Mobility in soil** No further relevant information available.

- **Additional ecological information:**

- **General notes:** Not hazardous for water.

- **Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

- **Other adverse effects** No further relevant information available.

\*

### 13 Disposal considerations

- **Waste treatment methods**

- **Recommendation:**

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

- **Uncleaned packagings:**

- **Recommendation:** Disposal must be made according to official regulations.

### 14 Transport information

- **UN-Number**

- **DOT, IMDG, IATA**

not regulated

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- |                                                                           |                 |
|---------------------------------------------------------------------------|-----------------|
| · UN proper shipping name                                                 |                 |
| · DOT, IMDG, IATA                                                         | not regulated   |
| · Transport hazard class(es)                                              |                 |
| · DOT, ADN, IMDG, IATA                                                    |                 |
| · Class                                                                   | not regulated   |
| · Packing group                                                           |                 |
| · DOT, IMDG, IATA                                                         | not regulated   |
| · Environmental hazards:                                                  | Not applicable. |
| · Special precautions for user                                            | Not applicable. |
| · Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code | Not applicable. |
| · UN "Model Regulation":                                                  | not regulated   |

\*

## 15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture  
No further relevant information available.
- Sara

### · Section 355 (extremely hazardous substances):

None of the ingredients is listed.

### · Section 313 (Specific toxic chemical listings):

None of the ingredients is listed.

### · TSCA (Toxic Substances Control Act):

7732-18-5 | water, distilled, conductivity or of similar purity

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.

### · Carcinogenic categories

### · EPA (Environmental Protection Agency)

None of the ingredients is listed.

### · TLV (Threshold Limit Value)

None of the ingredients is listed.

(Contd. on page 7)

US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/26/2024

Trade name: Hoechst 33342

(Contd. of page 6)

### · NIOSH-Ca (National Institute for Occupational Safety and Health)

None of the ingredients is listed.

· **GHS label elements** Void· **Hazard pictograms** Void· **Signal word** Void· **Hazard statements** Void· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

## 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.

- **Department issuing SDS:** Product safety department.

- **Date of preparation / last revision** 01/26/2024

- **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

DOT: US Department of Transportation

IATA: International Air Transport Association

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)

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

- **\* Data compared to the previous version altered.**

US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

## 1 Identification

### · Product identifier

· Trade name: RubyDead

### · Article number:

CSK-A0001-1 Component D, CSK-A0001-2 Component D, CSK-A0002-1 Component D, CSK-A0002-2 Component D, CSK-A0004-1 Component D, CSK-A0004-2 Component D, CSK-A0006-1 Component D, CSK-A0006-2 Component D, CSK-A0024-1 Component F, CSK-A0024-2 Component F, CSK-A0025-1 Component F, CSK-A0025-2 Component F, CSK-A0028-2 Component B, CSK-A0030-1 Component A, CSK-A0030-2 Component A, CSK-A0031-1 Component D, CSK-A0031-2 Component D, CSK-A0032-1 Component D, CSK-A0032-2 Component D, CSK-A0033-2 Component D, CSK-A0033-1 Component D

· 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

#### · Information department:

Technical Support  
1 (978) 327-5340  
Email Address  
CellC-Support@REVVITY.COM

#### · Emergency telephone number:

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

## 2 Hazard(s) identification

### · Classification of the substance or mixture



GHS06 Skull and crossbones

Acute Toxicity - Oral 2

H300 Fatal if swallowed.

Acute Toxicity - Inhalation 3

H331 Toxic if inhaled.



GHS08 Health hazard

Specific Target Organ Toxicity - Single Exposure 2 H371 May cause damage to organs.

### · Label elements

· GHS label elements The product is classified and labeled according to the Globally Harmonized System (GHS).

### · Hazard pictograms



GHS06



GHS08

(Contd. on page 2)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

Trade name: RubyDead

(Contd. of page 1)

- **Signal word** Danger
- **Hazard-determining components of labeling:**  
dimethyl sulfoxide
- **Hazard statements**  
Fatal if swallowed.  
Toxic if inhaled.  
May cause damage to organs.
- **Precautionary statements**  
Do not breathe dust/fume/gas/mist/vapors/spray.  
Wash thoroughly after handling.  
Do not eat, drink or smoke when using this product.  
Use only outdoors or in a well-ventilated area.  
If swallowed: Immediately call a poison center/doctor.  
Specific treatment (see on this label).  
Rinse mouth.  
IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
IF exposed or concerned: Call a poison center/doctor.  
Store in a well-ventilated place. Keep container tightly closed.  
Store locked up.  
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.

### 3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

67-68-5 dimethyl sulfoxide

&gt;50–≤100%

### 4 First-aid measures

- **Description of first aid measures**
- **General information:**  
Immediately remove any clothing soiled by the product.  
Remove breathing apparatus only after contaminated clothing have been completely removed.  
In case of irregular breathing or respiratory arrest provide artificial respiration.
- **After inhalation:**  
Supply fresh air or oxygen; call for doctor.  
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.
- **After swallowing:** Do not induce vomiting; immediately call for medical help.
- **Information for 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.

US

(Contd. on page 3)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

Trade name: RubyDead

(Contd. of page 2)

### 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:**  
CO<sub>2</sub>, extinguishing 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.

### 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).  
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.
- **Protective Action Criteria for Chemicals**

#### · PAC-1:

All components have the value 150 ppm.

#### · PAC-2:

All components have the value 290 ppm.

#### · PAC-3:

All components have the value 1,800 ppm.

### 7 Handling and storage

- **Handling:**
- **Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Open and handle receptacle with care.  
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:** Store at 2 - 8°C
- **Specific end use(s)** Research Use Only

### 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see section 7.

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# Safety Data Sheet

## acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

Trade name: RubyDead

(Contd. of page 3)

### · Control parameters

#### · Components with limit values that require monitoring at the workplace:

67-68-5 dimethyl sulfoxide

WEEL Long-term value: 250 ppm

· **Additional information:** The lists that were valid during the creation were used as basis.

### · Exposure controls

#### · Personal protective equipment:

#### · General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing.

Wash hands before breaks and at the end of work.

Store protective clothing separately.

#### · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

#### · Protection of hands:

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 protection:** Goggles recommended during refilling.

## 9 Physical and chemical properties

### · Information on basic physical and chemical properties

#### · General Information

#### · Appearance:

Form: Liquid

Color: Blue

· **Odor:** Odorless· **Odor threshold:** Not determined.· **pH-value:** Not determined.

#### · Change in condition

Melting point/Melting range: 18.45 °C (65.2 °F)

Boiling point/Boiling range: 189 °C (372.2 °F)

· **Flash point:** 95 °C (203 °F)· **Flammability (solid, gaseous):** Not applicable.· **Auto igniting:** 270 °C (518 °F)· **Decomposition temperature:** Not determined.

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# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

Trade name: RubyDead

(Contd. of page 4)

|                                                   |                                               |
|---------------------------------------------------|-----------------------------------------------|
| · <b>Ignition temperature:</b>                    | Product is not selfigniting.                  |
| · <b>Danger of explosion:</b>                     | Product does not present an explosion hazard. |
| · <b>Explosion limits:</b>                        |                                               |
| <b>Lower:</b>                                     | 1.8 Vol %                                     |
| <b>Upper:</b>                                     | 63 Vol %                                      |
| · <b>Vapor pressure at 20 °C (68 °F):</b>         | 2.5 hPa (1.9 mm Hg)                           |
| · <b>Density at 20 °C (68 °F):</b>                | 1.1 g/cm <sup>3</sup> (9.1795 lbs/gal)        |
| · <b>Relative density</b>                         | Not determined.                               |
| · <b>Vapor density</b>                            | Not determined.                               |
| · <b>Evaporation rate</b>                         | Not determined.                               |
| · <b>Solubility in / Miscibility with Water:</b>  | Fully miscible.                               |
| · <b>Partition coefficient (n-octanol/water):</b> | Not determined.                               |
| · <b>Viscosity:</b>                               |                                               |
| <b>Dynamic at 20 °C (68 °F):</b>                  | 198 mPas                                      |
| <b>Kinematic:</b>                                 | Not determined.                               |
| · <b>Solvent content:</b>                         |                                               |
| <b>Organic solvents:</b>                          | 99.0 %                                        |
| <b>VOC content:</b>                               | 99.00 %                                       |
|                                                   | 1,089.0 g/l / 9.09 lb/gal                     |
| · <b>Other information</b>                        | No further relevant information available.    |

## 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.

## 11 Toxicological information

- **Information on toxicological effects**
- **Acute toxicity:**

### · LD/LC50 values that are relevant for classification:

|            |          |                                               |
|------------|----------|-----------------------------------------------|
| Oral       | LD50     | 28.3 mg/kg (rat) (OECD Test Guideline 401)    |
| Dermal     | LD50     | 40,000 mg/kg (rat)                            |
| Inhalative | LC50/4 h | 5.33 mg/l /4h (rat) (OECD Test Guideline 403) |

### 67-68-5 dimethyl sulfoxide

|      |      |                    |
|------|------|--------------------|
| Oral | LD50 | 14,500 mg/kg (rat) |
|------|------|--------------------|

- **Primary irritant effect:**
- **on the skin:** No irritant effect.

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US

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

Trade name: RubyDead

(Contd. of page 5)

- **on the eye:** No irritating effect.
- **Sensitization:** No sensitizing effects known.
- **Additional toxicological information:**  
The product shows the following dangers according to internally approved calculation methods for preparations:  
Toxic  
Very toxic

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

None of the ingredients is listed.

- **NTP (National Toxicology Program)**

None of the ingredients is listed.

- **OSHA-Ca (Occupational Safety & Health Administration)**

None of the ingredients is listed.

## 12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**  
Water hazard class 2 (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.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

## 13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**  
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleansing agent:** Water, if necessary with cleansing agents.

## 14 Transport information

- **UN-Number**
- **DOT, IMDG, IATA** UN2810
- **UN proper shipping name**
- **DOT** Toxic, liquids, organic, n.o.s.

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US

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

Trade name: RubyDead

(Contd. of page 6)

|                                                                                   |                                                                                                                |
|-----------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|
| · <b>IMDG</b>                                                                     | TOXIC LIQUID, ORGANIC, N.O.S.                                                                                  |
| · <b>IATA</b>                                                                     | Toxic liquid, organic, n.o.s.                                                                                  |
| · <b>Transport hazard class(es)</b>                                               |                                                                                                                |
| · <b>DOT</b>                                                                      |                                                                                                                |
|  |                                                                                                                |
| · <b>Class</b>                                                                    | 6.1 Toxic substances                                                                                           |
| · <b>Label</b>                                                                    | 6.1                                                                                                            |
| · <b>IMDG, IATA</b>                                                               |                                                                                                                |
|  |                                                                                                                |
| · <b>Class</b>                                                                    | 6.1 Toxic substances                                                                                           |
| · <b>Label</b>                                                                    | 6.1                                                                                                            |
| · <b>Packing group</b>                                                            |                                                                                                                |
| · <b>DOT, IMDG, IATA</b>                                                          | II                                                                                                             |
| · <b>Environmental hazards:</b>                                                   | Not applicable.                                                                                                |
| · <b>Special precautions for user</b>                                             | Warning: Toxic substances                                                                                      |
| · <b>Hazard identification number (Kemler code):</b>                              | 60                                                                                                             |
| · <b>EMS Number:</b>                                                              | F-A,S-A                                                                                                        |
| · <b>Stowage Category</b>                                                         | B                                                                                                              |
| · <b>Stowage Code</b>                                                             | SW2 Clear of living quarters.                                                                                  |
| · <b>Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code</b>  | Not applicable.                                                                                                |
| · <b>Transport/Additional information:</b>                                        |                                                                                                                |
| · <b>DOT</b>                                                                      |                                                                                                                |
| · <b>Quantity limitations</b>                                                     | On passenger aircraft/rail: 5 L<br>On cargo aircraft only: 60 L                                                |
| · <b>IMDG</b>                                                                     |                                                                                                                |
| · <b>Limited quantities (LQ)</b>                                                  | 100 ml                                                                                                         |
| · <b>Excepted quantities (EQ)</b>                                                 | Code: E4<br>Maximum net quantity per inner packaging: 1 ml<br>Maximum net quantity per outer packaging: 500 ml |
| · <b>UN "Model Regulation":</b>                                                   | UN 2810 TOXIC LIQUID, ORGANIC, N.O.S. 6.1, II                                                                  |

## 15 Regulatory information

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

No further relevant information available.

· **Sara**

· **Section 355 (extremely hazardous substances):**

None of the ingredients is listed.

(Contd. on page 8)

# Safety Data Sheet

acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

Trade name: RubyDead

(Contd. of page 7)

· **Section 313 (Specific toxic chemical listings):**

None of the ingredients is listed.

· **TSCA (Toxic Substances Control Act):**

All components 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.

· **Carcinogenic categories**· **EPA (Environmental Protection Agency)**

None of the ingredients is listed.

· **TLV (Threshold Limit Value)**

None of the ingredients is listed.

· **NIOSH-Ca (National Institute for Occupational Safety and Health)**

None of the ingredients is listed.

· **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).· **Hazard pictograms**

GHS06 GHS08

· **Signal word** Danger· **Hazard-determining components of labeling:**

dimethyl sulfoxide

· **Hazard statements**

Fatal if swallowed.

Toxic if inhaled.

May cause damage to organs.

· **Precautionary statements**

Do not breathe dust/fume/gas/mist/vapors/spray.

Wash thoroughly after handling.

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

Use only outdoors or in a well-ventilated area.

If swallowed: Immediately call a poison center/doctor.

Specific treatment (see on this label).

Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing.

IF exposed or concerned: Call a poison center/doctor.

(Contd. on page 9)

# Safety Data Sheet

## acc. to OSHA HCS

Printing date 01/29/2024

Reviewed on 01/29/2024

**Trade name: RubyDead**

(Contd. of page 8)

Store in a well-ventilated place. Keep container tightly closed.

Store locked up.

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

· **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

### 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.

· **Department issuing SDS:** Product safety department.· **Date of preparation / last revision** 01/29/2024· **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)

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DOT: US Department of Transportation

IATA: International Air Transport Association

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

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety &amp; Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

Acute Toxicity - Oral 2: Acute toxicity – Category 2

Acute Toxicity - Inhalation 3: Acute toxicity – Category 3

Specific Target Organ Toxicity - Single Exposure 2: Specific target organ toxicity (single exposure) – Category 2

· **\* Data compared to the previous version altered.**

US