

## Box 1002447 Component SDS

**REF 1002447**  
**Onyx<sup>®</sup> Genome Engineering Kit**  
**Onyx Design DNA – E. coli**

| Consumable ID Number | Consumable Ref Number and Relevant Well |
|----------------------|---|
| 4                    | 1002167 Well 1, Well 2                  |
| 4                    | 1002167 Well 4                          |
| 11                   | 1002172 Well 1                          |

\*Note: Consumable wells are numbered such that Well 1 is the well closest to the Chamfer

# 1002167 Well 1, Well 2

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of Issue: 11/03/2022

Version: 2.0

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

#### 1.1. Product identifier

Product Form : Mixture  
Product Name : 1002167 Well 1, Well 2

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : No use is specified.

##### 1.2.2. Uses advised against

No additional information available

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

##### Company

Inscripta, Inc.  
5764 Pacific Center Blvd  
San Diego, CA 92121  
619-708-8130

[www.inscripta.com](http://www.inscripta.com)

[info@inscripta.com](mailto:info@inscripta.com)

#### 1.4. Emergency telephone number

Emergency number : 1-352-323-3500

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification According to Regulation (EC) No. 1272/2008 [CLP]

Flam. Liq. 2 H225  
Eye Irrit. 2 H319  
Carc. 1B H350

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label elements

Labelling According to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



Signal word (CLP) :

Danger

Hazard statements (CLP) :

H225 - Highly flammable liquid and vapour.  
H319 - Causes serious eye irritation.  
H350 - May cause cancer.

Precautionary statements (CLP) :

P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P233 - Keep container tightly closed.  
P240 - Ground and bond container and receiving equipment.  
P241 - Use explosion-proof electrical/ventilating/lighting equipment.  
P242 - Use non-sparking tools.  
P243 - Take action to prevent static discharges.  
P264 - Wash hands, forearms and face thoroughly after handling.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P303+P361+P353 - IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water .  
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
P308+P313 - IF exposed or concerned: Get medical advice/attention.  
P337+P313 - If eye irritation persists: Get medical advice/attention.  
P370+P378 - In case of fire: Use media other than water to extinguish.  
P403+P235 - Store in a well-ventilated place. Keep cool.  
P405 - Store locked up.

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P501 – Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

### 2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Other hazards not contributing to the classification : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Not applicable

### 3.2. Mixtures

| Name            | Product identifier   | %       | Classification According to Regulation (EC) No. 1272/2008 [CLP] |
|-----------------|--|---------|---|
| Ethyl alcohol   | (CAS-No.) 64-17-5<br>(EC-No.) 200-578-6<br>(EC Index-No.) 603-002-00-5 | 60 - 80 | Flam. Liq. 2, H225  |
| Chloramphenicol | (CAS-No.) 56-75-7<br>(EC-No.) 200-287-4                                | 0,1 - 1 | Eye Dam. 1, H318<br>Carc. 1B, H350<br>Repr. 2, H361             |

Full text of H-statements: see section 16

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Immediately drench affected area with water for at least 15 minutes. Immediately remove contaminated clothing. If exposed or concerned: Get medical advice/attention.
- First-aid measures after eye contact : Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

- Symptoms/effects : May cause cancer. Causes serious eye irritation.
- Symptoms/effects after inhalation : Prolonged exposure may cause irritation.
- Symptoms/effects after skin contact : Prolonged exposure may cause skin irritation.
- Symptoms/effects after eye contact : Contact causes severe irritation with redness and swelling of the conjunctiva.
- Symptoms/effects after ingestion : Ingestion may cause adverse effects.
- Chronic symptoms : May cause cancer. Repeated exposure may cause skin dryness or cracking.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

- Suitable extinguishing media : Dry chemical powder, alcohol-resistant foam, carbon dioxide (CO<sub>2</sub>). Water may be ineffective but water should be used to keep fire-exposed container cool.
- Unsuitable extinguishing media : Do not use a heavy water stream. A heavy water stream may spread burning liquid.

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

- Fire hazard : Highly flammable liquid and vapour. Vapours are heavier than air and may travel considerable distance to an ignition source and flash back to source of vapours.
- Explosion hazard : May form flammable or explosive vapour-air mixture.
- Reactivity : Reacts violently with strong oxidisers. Increased risk of fire or explosion.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Chlorine. Nitrogen compounds.

### 5.3. Advice for firefighters

- Precautionary measures fire : Exercise caution when fighting any chemical fire.
- Firefighting instructions : Use water spray or fog for cooling exposed containers. In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

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Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

General measures : Do not get in eyes, on skin, or on clothing. Do not breathe vapor, mist or spray. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking. Use special care to avoid static electric charges.

##### 6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protective equipment (PPE).  
Emergency procedures : Evacuate unnecessary personnel. Stop leak if safe to do so.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
Emergency procedures : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area. Eliminate ignition sources.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Avoid release to the environment.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions.  
Methods for cleaning up : Clean up spills immediately and dispose of waste safely. Absorb and/or contain spill with inert material. Do not take up in combustible material such as: saw dust or cellulosic material. Transfer spilled material to a suitable container for disposal. Use only non-sparking tools. Contact competent authorities after a spill.

#### 6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Additional hazards when processed : Handle empty containers with care because residual vapours are flammable.  
Precautions for safe handling : Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Do not get in eyes, on skin, or on clothing. Do not breathe vapours, mist, spray. Take precautionary measures against static discharge. Use only non-sparking tools. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.  
Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

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

Technical measures : Comply with applicable regulations. Take action to prevent static discharges. Ground and bond container and receiving equipment. Use explosion-proof electrical, ventilating, and lighting equipment.  
Storage conditions : Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area. Store in a well-ventilated place. Keep container tightly closed. Keep in fireproof place.  
Incompatible materials : Oxidizers. Strong acids. Acid anhydrides. Acid chlorides.

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

No use is specified.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| Ethyl alcohol (64-17-5) |  |                        |
|-------------------------|--|------------------------|
| Austria                 | MAK Daily average value (mg/m <sup>3</sup> ) | 1900 mg/m <sup>3</sup> |
| Austria                 | MAK Daily average value (ppm)                | 1000 ppm               |
| Austria                 | MAK Short time value [mg/m <sup>3</sup> ]    | 3800 mg/m <sup>3</sup> |
| Austria                 | MAK Short time value [ppm]                   | 2000 ppm               |
| Belgium                 | Limit value [mg/m <sup>3</sup> ]             | 1907 mg/m <sup>3</sup> |
| Belgium                 | Limit value [ppm]                            | 1000 ppm               |
| Bulgaria                | OEL TWA (mg/m <sup>3</sup> )                 | 1000 mg/m <sup>3</sup> |

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| Ethyl alcohol (64-17-5) |  |  |
|-------------------------|--|--|
| Croatia                 | GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> ) | 1900 mg/m <sup>3</sup>   |
| Croatia                 | GVI (granična vrijednost izloženosti) (ppm)                | 1000 ppm   |
| France                  | VLE [mg/m <sup>3</sup> ]                                   | 9500 mg/m <sup>3</sup>   |
| France                  | VLE [ppm]  | 5000 ppm   |
| France                  | VME [mg/m <sup>3</sup> ]                                   | 1900 mg/m <sup>3</sup>   |
| France                  | VME [ppm]  | 1000 ppm   |
| Germany                 | Occupational exposure limit value (mg/m <sup>3</sup> )     | 380 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed) |
| Germany                 | Occupational exposure limit value (ppm)                    | 200 ppm (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed)               |
| Greece                  | OEL TWA (mg/m <sup>3</sup> )                               | 1900 mg/m <sup>3</sup>   |
| Greece                  | OEL TWA (ppm)  | 1000 ppm   |
| USA ACGIH               | ACGIH STEL (ppm)   | 1000 ppm   |
| Latvia                  | OEL TWA (mg/m <sup>3</sup> )                               | 1000 mg/m <sup>3</sup>   |
| Spain                   | VLA-EC (mg/m <sup>3</sup> )                                | 1910 mg/m <sup>3</sup>   |
| Spain                   | VLA-EC (ppm)   | 1000 ppm   |
| Switzerland             | KZGW (mg/m <sup>3</sup> )                                  | 1920 mg/m <sup>3</sup>   |
| Switzerland             | KZGW (ppm)   | 1000 ppm   |
| Switzerland             | MAK (mg/m <sup>3</sup> )                                   | 960 mg/m <sup>3</sup>  |
| Switzerland             | MAK (ppm)  | 500 ppm  |
| Netherlands             | Grenswaarde TGG 8H (mg/m <sup>3</sup> )                    | 260 mg/m <sup>3</sup>  |
| Netherlands             | Grenswaarde TGG 15MIN (mg/m <sup>3</sup> )                 | 1900 mg/m <sup>3</sup>   |
| United Kingdom          | WEL TWA (mg/m <sup>3</sup> )                               | 1920 mg/m <sup>3</sup>   |
| United Kingdom          | WEL TWA (ppm)  | 1000 ppm   |
| United Kingdom          | WEL STEL (mg/m <sup>3</sup> )                              | 5760 mg/m <sup>3</sup> (calculated)  |
| United Kingdom          | WEL STEL [ppm]   | 3000 ppm (calculated)  |
| Czech Republic          | Expoziční limity (PEL) (mg/m <sup>3</sup> )                | 1000 mg/m <sup>3</sup>   |
| Denmark                 | Grænsevædi (8 timer) (mg/m <sup>3</sup> )                  | 1900 mg/m <sup>3</sup>   |
| Denmark                 | Grænsevædi (8 timer) (ppm)                                 | 1000 ppm   |
| Estonia                 | OEL TWA (mg/m <sup>3</sup> )                               | 1000 mg/m <sup>3</sup>   |
| Estonia                 | OEL TWA (ppm)  | 500 ppm  |
| Estonia                 | OEL STEL (mg/m <sup>3</sup> )                              | 1900 mg/m <sup>3</sup>   |
| Estonia                 | OEL STEL (ppm)   | 1000 ppm   |
| Finland                 | HTP-arvo (8h) (mg/m <sup>3</sup> )                         | 1900 mg/m <sup>3</sup>   |
| Finland                 | HTP-arvo (8h) (ppm)  | 1000 ppm   |
| Finland                 | HTP-arvo (15 min)  | 2500 mg/m <sup>3</sup>   |
| Finland                 | HTP-arvo (15 min) (ppm)                                    | 1300 ppm   |
| Hungary                 | AK-érték   | 1900 mg/m <sup>3</sup>   |
| Hungary                 | CK-érték   | 3800 mg/m <sup>3</sup>   |
| Ireland                 | OEL (15 min ref) (ppm)                                     | 1000 ppm   |
| Lithuania               | IPRV (mg/m <sup>3</sup> )                                  | 1000 mg/m <sup>3</sup>   |
| Lithuania               | IPRV (ppm)   | 500 ppm  |
| Lithuania               | TPRV (mg/m <sup>3</sup> )                                  | 1900 mg/m <sup>3</sup>   |
| Lithuania               | TPRV (ppm)   | 1000 ppm   |
| Norway                  | Grenseverdier (AN) (mg/m <sup>3</sup> )                    | 950 mg/m <sup>3</sup>  |
| Norway                  | Grenseverdier (AN) (ppm)                                   | 500 ppm  |
| Norway                  | Grenseverdier (Korttidsverdi) (mg/m <sup>3</sup> )         | 1187,5 mg/m <sup>3</sup> (value calculated)  |

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| Ethyl alcohol (64-17-5) |   |   |
|-------------------------|---|---|
| Norway                  | Grenseverdier (Korttidsverdi) (ppm)       | 625 ppm (value calculated)  |
| Poland                  | NDS (mg/m <sup>3</sup> )                  | 1900 mg/m <sup>3</sup>  |
| Romania                 | OEL TWA (mg/m <sup>3</sup> )              | 1900 mg/m <sup>3</sup>  |
| Romania                 | OEL TWA (ppm)                             | 1000 ppm  |
| Romania                 | OEL STEL (mg/m <sup>3</sup> )             | 9500 mg/m <sup>3</sup>  |
| Romania                 | OEL STEL (ppm)                            | 5000 ppm  |
| Slovakia                | NPHV (priemerná) (mg/m <sup>3</sup> )     | 960 mg/m <sup>3</sup>   |
| Slovakia                | NPHV (priemerná) (ppm)                    | 500 ppm   |
| Slovakia                | NPHV (Hraničná) (mg/m <sup>3</sup> )      | 1920 mg/m <sup>3</sup>  |
| Slovenia                | OEL TWA (mg/m <sup>3</sup> )              | 960 mg/m <sup>3</sup>   |
| Slovenia                | OEL TWA (ppm)                             | 500 ppm   |
| Slovenia                | OEL STEL (mg/m <sup>3</sup> )             | 1920 mg/m <sup>3</sup>  |
| Slovenia                | OEL STEL (ppm)                            | 1000 ppm  |
| Sweden                  | nivågränsvärde (NVG) (mg/m <sup>3</sup> ) | 1000 mg/m <sup>3</sup>  |
| Sweden                  | nivågränsvärde (NVG) (ppm)                | 500 ppm   |
| Sweden                  | kortidsvärde (KTV) (mg/m <sup>3</sup> )   | 1900 mg/m <sup>3</sup>  |
| Sweden                  | kortidsvärde (KTV) (ppm)                  | 1000 ppm  |
| Portugal                | OEL TWA (ppm)                             | 1000 ppm  |
| Portugal                | OEL chemical category (PT)                | A3 - Confirmed Animal Carcinogen with Unknown Relevance to Humans |

| Chloramphenicol (56-75-7) |                              |                     |
|---------------------------|------------------------------|---------------------|
| Bulgaria                  | OEL TWA (mg/m <sup>3</sup> ) | 1 mg/m <sup>3</sup> |
| Latvia                    | OEL TWA (mg/m <sup>3</sup> ) | 1 mg/m <sup>3</sup> |

### 8.2. Exposure controls

Appropriate engineering controls

: Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed. Gas detectors should be used when flammable gases or vapors may be released. Proper grounding procedures to avoid static electricity should be followed. Use explosion-proof equipment.

Personal protective equipment

: Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



Materials for protective clothing

: Chemically resistant materials and fabrics. Wear fire/flammable resistant/retardant clothing.

Hand protection

: Wear protective gloves.

Eye and Face Protection

: Chemical safety goggles.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Other information

: When using, do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

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

|                  |                     |
|------------------|---------------------|
| Physical state   | : Liquid            |
| Appearance       | : No data available |
| Colour           | : No data available |
| Odour            | : No data available |
| Odour threshold  | : No data available |
| pH               | : No data available |
| Evaporation rate | : No data available |

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|  |                     |
|--|---------------------|
| Melting point                          | : No data available |
| Freezing point                         | : No data available |
| Boiling point                          | : No data available |
| Flash point                            | : No data available |
| Auto-ignition temperature              | : No data available |
| Decomposition temperature              | : No data available |
| Flammability (solid, gas)              | : Not applicable    |
| Vapour pressure                        | : No data available |
| Relative vapour density at 20 °C       | : No data available |
| Relative density                       | : No data available |
| Solubility                             | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Viscosity                              | : No data available |
| Explosive properties                   | : No data available |
| Oxidising properties                   | : No data available |
| Explosive limits                       | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Reacts violently with strong oxidisers. Increased risk of fire or explosion.

### 10.2. Chemical stability

Highly flammable liquid and vapour. May form flammable or explosive vapour-air mixture.

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, heat, hot surfaces, sparks, open flames, incompatible materials, and other ignition sources.

### 10.5. Incompatible materials

Oxidizers. Strong acids. Acid anhydrides. Acid chlorides.

### 10.6. Hazardous decomposition products

Not expected to decompose under ambient conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

| Ethyl alcohol (64-17-5)         |               |
|---------------------------------|---------------|
| LD50 oral rat                   | 10470 mg/kg   |
| LD50 dermal rat                 | 20 ml/kg      |
| LC50 Inhalation - Rat (Vapours) | 124,7 mg/l/4h |

| Chloramphenicol (56-75-7) |            |
|---------------------------|------------|
| LD50 oral rat             | 2500 mg/kg |

|                                   |   |
|-----------------------------------|---|
| Skin corrosion/irritation         | : Not classified (Based on available data, the classification criteria are not met)   |
| Serious eye damage/irritation     | : Causes serious eye irritation. (Ethyl alcohol causes serious eye irritation, though this is not included in its prescribed harmonised classification) |
| Respiratory or skin sensitisation | : Not classified (Based on available data, the classification criteria are not met)   |
| Germ cell mutagenicity            | : Not classified (Based on available data, the classification criteria are not met)   |
| Carcinogenicity                   | : May cause cancer.   |

| Ethyl alcohol (64-17-5) in alcoholic beverages |   |
|--|---|
| IARC group                                     | 1 |

| Chloramphenicol (56-75-7)                |  |
|--|--|
| IARC group                               | 2A   |
| National Toxicology Program (NTP) Status | Reasonably anticipated to be Human Carcinogen, Substances delisted from report on Carcinogens. |

|                                    |   |
|------------------------------------|---|
| Reproductive toxicity              | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure               | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure             | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard                  | : Not classified (Based on available data, the classification criteria are not met) |
| Symptoms/Injuries After Inhalation | : Prolonged exposure may cause irritation.  |

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- Symptoms/Injuries After Skin Contact : Prolonged exposure may cause skin irritation.  
Symptoms/Injuries After Eye Contact : Contact causes severe irritation with redness and swelling of the conjunctiva.  
Symptoms/Injuries After Ingestion : Ingestion may cause adverse effects.  
Chronic Symptoms : May cause cancer. Repeated exposure may cause skin dryness or cracking.

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Not classified.

| Ethyl alcohol (64-17-5) |  |
|-------------------------|--|
| LC50 fish 1             | 11200 mg/l   |
| EC50 Daphnia 1          | 9268 – 14221 mg/l (Exposure time: 48 h - Species: Daphnia magna)         |
| LC50 fish 2             | > 100 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static]) |
| ErC50 (algae)           | 1000 mg/l  |
| NOEC chronic crustacea  | 9,6 mg/l   |

### 12.2. Persistence and degradability

| 1002167 Well 1, Well 2        |                  |
|-------------------------------|------------------|
| Persistence and degradability | Not established. |

### 12.3. Bioaccumulative potential

| 1002167 Well 1, Well 2                          |                  |
|---|------------------|
| Bioaccumulative potential                       | Not established. |
| Ethyl alcohol (64-17-5)                         |                  |
| Partition coefficient n-octanol/water (Log Pow) | -0,32            |

### 12.4. Mobility in soil

No additional information available

### 12.5. Results of PBT and vPvB assessment

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|---|--|
| PBT: not relevant – no registration required  |  |
| vPvB: not relevant – no registration required |  |

### 12.6. Other adverse effects

Other information : Avoid release to the environment.






## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

- Product/Packaging disposal recommendations : Dispose of contents/container in accordance with local, regional, national, and international regulations.  
Additional information : Handle empty containers with care because residual vapours are flammable.  
Ecology – waste materials : Avoid release to the environment.

## SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

| ADR   | IMDG  | IATA  | ADN  | RID   |
|---|---|---|--|---|
| 14.1. UN number   |   |   |  |   |
| 1170  | 1170  | 1170  | 1170   | 1170  |
| 14.2. UN proper shipping name   |   |   |  |   |
| ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)   | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)   | Ethanol solution  | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)  | ETHANOL SOLUTION (ETHYL ALCOHOL SOLUTION)   |
| 14.3. Transport hazard class(es)  |   |   |  |   |
| 3   | 3   | 3   | 3  | 3   |
|  |  |  |  |  |
| 14.4. Packing group   |   |   |  |   |
| II  | II  | II  | II   | II  |



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| ADR                                | IMDG  | IATA                               | ADN                                | RID                                |
|------------------------------------|---|------------------------------------|------------------------------------|------------------------------------|
| <b>14.5. Environmental hazards</b> |   |                                    |                                    |                                    |
| Dangerous for the environment : No | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |

### 14.6. Special precautions for user

No additional information available

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

|  |   |
|--|---|
| 3(a) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 2.1 to 2.4, 2.6 and 2.7, 2.8 types A and B, 2.9, 2.10, 2.12, 2.13 categories 1 and 2, 2.14 categories 1 and 2, 2.15 types A to F  | 1002167 Well 1, Well 2 ;<br>Ethyl alcohol |
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10   | 1002167 Well 1, Well 2                    |
| 3(c) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard class 4.1   | 1002167 Well 1, Well 2                    |
| 40. Substances classified as flammable gases category 1 or 2, flammable liquids categories 1, 2 or 3, flammable solids category 1 or 2, substances and mixtures which, in contact with water, emit flammable gases, category 1, 2 or 3, pyrophoric liquids category 1 or pyrophoric solids category 1, regardless of whether they appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008 or not. | 1002167 Well 1, Well 2 ;<br>Ethyl alcohol |

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

|  |
|--|
| <b>Ethyl alcohol (64-17-5)</b>   |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |
| <b>Chloramphenicol (56-75-7)</b>   |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

|  |   |
|--|---|
| Date of Preparation or Latest Revision | : 08/02/2021  |
| Data sources                           | : Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS. |
| Other information                      | : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830  |

Full Text of H- and EUH-statements:

|              |  |
|--------------|--|
| Carc. 1B     | Carcinogenicity, Category 1B                         |
| Eye Dam. 1   | Serious eye damage/eye irritation, Category 1        |
| Eye Irrit. 2 | Serious eye damage/eye irritation, Category 2        |
| Flam. Liq. 2 | Flammable liquids, Category 2                        |
| Repr. 2      | Reproductive toxicity, Category 2                    |
| H225         | Highly flammable liquid and vapour.                  |
| H318         | Causes serious eye damage.                           |
| H319         | Causes serious eye irritation.                       |
| H350         | May cause cancer.                                    |
| H361         | Suspected of damaging fertility or the unborn child. |

### Indication of Changes No additional information available

### Abbreviations and Acronyms

|   |  |
|---|--|
| ACGIH – American Conference of Governmental Industrial Hygienists   | NDS – Najwyższe Dopuszczalne Stezenie  |
| ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways   | NDSch – Najwyższe Dopuszczalne Stezenie Chwilowe   |
| ADR – European Agreement Concerning the International Carriage of Dangerous Goods by Road   | NDSP – Najwyższe Dopuszczalne Stezenie Pulapowe  |
| ATE – Acute Toxicity Estimate   | NOAEL – No-Observed Adverse Effect Level   |
| BCF – Bioconcentration Factor   | NOEC – No-Observed Effect Concentration  |
| BEI – Biological Exposure Indices (BEI)   | NRD – Nevirsytinas Ribinis Dydis   |
| BOD – Biochemical Oxygen Demand   | NTP – National Toxicology Program  |
| CAS No. – Chemical Abstracts Service Number   | OEL – Occupational Exposure Limits   |
| CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008   | PBT – Persistent, Bioaccumulative and Toxic  |
| COD – Chemical Oxygen Demand  | PEL – Permissible Exposure Limit   |
| EC – European Community   | pH – Potential Hydrogen  |
| EC50 – Median Effective Concentration   | REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals                              |
| EEC – European Economic Community   | RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail                         |
| EINECS – European Inventory of Existing Commercial Chemical Substances  | SADT – Self Accelerating Decomposition Temperature   |
| EmS-No. (Fire) – IMDG Emergency Schedule Fire   | SDS – Safety Data Sheet  |
| EmS-No. (Spillage) – IMDG Emergency Schedule Spillage   | STEL – Short Term Exposure Limit   |
| EU – European Union   | STOT – Specific Target Organ Toxicity  |
| ErC50 – EC50 in Terms of Reduction Growth Rate  | TA-Luft – Technische Anleitung zur Reinhaltung der Luft  |
| GHS – Globally Harmonized System of Classification and Labeling of Chemicals  | TEL TRK – Technical Guidance Concentrations  |
| IARC – International Agency for Research on Cancer  | ThOD – Theoretical Oxygen Demand   |
| IATA – International Air Transport Association  | TLM – Median Tolerance Limit   |
| IBC Code – International Bulk Chemical Code   | TLV – Threshold Limit Value  |
| IMDG – International Maritime Dangerous Goods   | TPRD – Trumpalaikio Poveikio Ribinis Dydis   |
| IPRV – Ilgalaikio Poveikio Ribinis Dydis  | TRGS 510 – Technische Regel für Gefahrstoffe 510 – Lagerung von Gefahrstoffen in ortsbeweglichen Behältern |
| IOELV – Indicative Occupational Exposure Limit Value  | TRGS 552 – Technische Regeln für Gefahrstoffe – N-Nitrosamine  |
| LC50 – Median Lethal Concentration  | TRGS 900 – Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte                                  |
| LD50 – Median Lethal Dose   | TRGS 903 – Technische Regel für Gefahrstoffe 903 – Biologische Grenzwerte                                  |
| LOAEL – Lowest Observed Adverse Effect Level  | TSCA – Toxic Substances Control Act  |
| LOEC – Lowest-Observed-Effect Concentration   | TWA – Time Weighted Average  |
| Log Koc – Soil Organic Carbon-water Partitioning Coefficient  | VOC – Volatile Organic Compounds   |
| Log Kow – Octanol/water Partition Coefficient   | VLA-EC – Valor Límite Ambiental Exposición de Corta Duración   |
| Log Pow – Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water | VLA-ED – Valor Límite Ambiental Exposición Diaria  |
| MAK – Maximum Workplace Concentration/Maximum Permissible Concentration   | VLE – Valeur Limite D'exposition   |
| MARPOL – International Convention for the Prevention of Pollution   | VME – Valeur Limite De Moyenne Exposition  |
| EU GHS SDS  | vPvB – Very Persistent and Very Bioaccumulative  |
|   | WEL – Workplace Exposure Limit   |
|   | WGK – Wassergefährdungsklasse  |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*

# 1002167 Well 4

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of Issue: 11/03/2022

Version: 2.0

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

#### 1.1. Product identifier

Product Form : Mixture  
Product Name : 1002167 Well 4

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : No use is specified.

##### 1.2.2. Uses advised against

No additional information available

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

##### Company

Inscripta, Inc.  
5764 Pacific Center Blvd  
San Diego, CA 92121  
619-708-8130

[www.inscripta.com](http://www.inscripta.com)

[info@inscripta.com](mailto:info@inscripta.com)

#### 1.4. Emergency telephone number

Emergency number : 1-352-323-3500

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification According to Regulation (EC) No. 1272/2008 [CLP]

Resp. Sens. 1 H334

Skin Sens. 1 H317

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label elements

Labelling According to Regulation (EC) No. 1272/2008 [CLP]

Hazard pictograms (CLP) :



GHS08

Signal word (CLP) : Danger

Hazard statements (CLP) : H317 - May cause an allergic skin reaction.  
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements (CLP) : P261 - Avoid breathing vapors, mist, spray.  
P272 - Contaminated work clothing should not be allowed out of the workplace.  
P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.  
P284 - Wear respiratory protection.  
P302+P352 - IF ON SKIN: Wash with plenty of water.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P321 - Specific treatment (see supplemental first aid instruction on this label).  
P333+P313 - If skin irritation or rash occurs: Get medical advice/attention.  
P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor.  
P362+P364 - Take off contaminated clothing and wash it before reuse.  
P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

#### 2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Other hazards not contributing to the classification : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

**3.2. Mixtures**

| Name  | Product identifier                        | %     | Classification According to Regulation (EC) No. 1272/2008 [CLP] |
|---|---|-------|---|
| Disodium [2S-(2.alpha.,5.alpha.,6.beta.)]-6-(carboxylatophenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate | (CAS-No.) 4800-94-6<br>(EC-No.) 225-360-8 | 1 - 5 | Resp. Sens. 1, H334<br>Skin Sens. 1, H317                       |

Full text of H-statements: see section 16

**SECTION 4: First aid measures****4.1. Description of first aid measures**

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.
- First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 15 minutes. Obtain medical attention if irritation/rash develops or persists.
- First-aid measures after eye contact : Rinse cautiously with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention.
- First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

- Symptoms/effects : May cause allergy or asthma symptoms or breathing difficulties if inhaled. Skin sensitisation.
- Symptoms/effects after inhalation : Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction.
- Symptoms/effects after skin contact : May cause an allergic skin reaction.
- Symptoms/effects after eye contact : May cause slight irritation to eyes.
- Symptoms/effects after ingestion : Ingestion may cause adverse effects.
- Chronic symptoms : May produce an allergic reaction.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

**SECTION 5: Firefighting measures****5.1. Extinguishing media**

- Suitable extinguishing media : Use extinguishing media appropriate for surrounding fire.
- Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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

- Fire hazard : Will not support combustion unless the water has evaporated.
- Explosion hazard : Product is not explosive.
- Reactivity : Hazardous reactions will not occur under normal conditions.
- Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Sodium oxides. Nitrogen compounds.

**5.3. Advice for firefighters**

- Precautionary measures fire : Exercise caution when fighting any chemical fire.
- Firefighting instructions : Use water spray or fog for cooling exposed containers.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

- General measures : Do not breathe vapor, mist or spray. Do not get in eyes, on skin, or on clothing.

**6.1.1. For non-emergency personnel**

- Protective equipment : Use appropriate personal protective equipment (PPE).
- Emergency procedures : Evacuate unnecessary personnel.

**6.1.2. For emergency responders**

- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

**6.2. Environmental precautions**

Prevent entry to sewers and public waters.

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

- For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.
- Methods for cleaning up : Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

**6.4. Reference to other sections**

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

- Precautions for safe handling : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

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

- Technical measures : Comply with applicable regulations.
- Storage conditions : Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.
- Incompatible materials : Oxidizers.

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

No use is specified.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters**

No additional information available

**8.2. Exposure controls**

- Appropriate engineering controls : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
- Personal protective equipment : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



- Materials for protective clothing : Chemically resistant materials and fabrics.
- Hand protection : Wear protective gloves.
- Eye and Face Protection : Chemical safety goggles.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
- Other information : When using, do not eat, drink or smoke.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

- Physical state : Liquid
- Appearance : No data available
- Colour : No data available
- Odour : No data available
- Odour threshold : No data available
- pH : No data available
- Evaporation rate : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Not applicable
- Vapour pressure : No data available

# 1002167 Well 4

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

|  |                     |
|--|---------------------|
| Relative vapour density at 20 °C       | : No data available |
| Relative density                       | : No data available |
| Solubility                             | : No data available |
| Partition coefficient: n-octanol/water | : No data available |
| Viscosity                              | : No data available |
| Explosive properties                   | : No data available |
| Oxidising properties                   | : No data available |
| Explosive limits                       | : No data available |

### 9.2. Other information

No additional information available

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

Hazardous reactions will not occur under normal conditions.

### 10.2. Chemical stability

Stable under recommended handling and storage conditions (see section 7).

### 10.3. Possibility of hazardous reactions

Hazardous polymerization will not occur.

### 10.4. Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

### 10.5. Incompatible materials

Oxidizers.

### 10.6. Hazardous decomposition products

Not expected to decompose under ambient conditions.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

**Disodium [2S-(2.alpha.,5.alpha.,6.beta.)]-6-(carboxylatophenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate (4800-94-6)**

LD50 oral rat > 10 g/kg

|                                      |   |
|--------------------------------------|---|
| Skin corrosion/irritation            | : Not classified (Based on available data, the classification criteria are not met)   |
| Serious eye damage/irritation        | : Not classified (Based on available data, the classification criteria are not met)   |
| Respiratory or skin sensitisation    | : May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.   |
| Germ cell mutagenicity               | : Not classified (Based on available data, the classification criteria are not met)   |
| Carcinogenicity                      | : Not classified (Based on available data, the classification criteria are not met)   |
| Reproductive toxicity                | : Not classified (Based on available data, the classification criteria are not met)   |
| STOT-single exposure                 | : Not classified (Based on available data, the classification criteria are not met)   |
| STOT-repeated exposure               | : Not classified (Based on available data, the classification criteria are not met)   |
| Aspiration hazard                    | : Not classified (Based on available data, the classification criteria are not met)   |
| Symptoms/Injuries After Inhalation   | : Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. |
| Symptoms/Injuries After Skin Contact | : May cause an allergic skin reaction.  |
| Symptoms/Injuries After Eye Contact  | : May cause slight irritation to eyes.  |
| Symptoms/Injuries After Ingestion    | : Ingestion may cause adverse effects.  |
| Chronic Symptoms                     | : May produce an allergic reaction.   |

## SECTION 12: Ecological information

### 12.1. Toxicity

Ecology - general : Not classified.

### 12.2. Persistence and degradability

1002167 Well 4

Persistence and degradability : Not established.

### 12.3. Bioaccumulative potential

1002167 Well 4

Bioaccumulative potential : Not established.

### 12.4. Mobility in soil

No additional information available

# 1002167 Well 4

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

### 12.5. Results of PBT and vPvB assessment

|   |
|---|
| 1002167 Well 4                                |
| PBT: not relevant – no registration required  |
| vPvB: not relevant – no registration required |

### 12.6. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Product/Packaging disposal : Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology – waste materials : Avoid release to the environment.

## SECTION 14: Transport information

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                     | IMDG  | IATA                               | ADN                                | RID                                |
|---|---|------------------------------------|------------------------------------|------------------------------------|
| <b>14.1. UN number</b>                  |   |                                    |                                    |                                    |
| Not regulated for transport             |   |                                    |                                    |                                    |
| <b>14.2. UN proper shipping name</b>    |   |                                    |                                    |                                    |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| <b>14.3. Transport hazard class(es)</b> |   |                                    |                                    |                                    |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| <b>14.4. Packing group</b>              |   |                                    |                                    |                                    |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| <b>14.5. Environmental hazards</b>      |   |                                    |                                    |                                    |
| Dangerous for the environment : No      | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |

### 14.6. Special precautions for user

No additional information available

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

Not applicable

## SECTION 15: Regulatory information

### 15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

#### 15.1.1. EU-Regulations

The following restrictions are applicable according to Annex XVII of the REACH Regulation (EC) No 1907/2006:

|  |                |
|--|----------------|
| 3(b) Substances or mixtures fulfilling the criteria for any of the following hazard classes or categories set out in Annex I to Regulation (EC) No 1272/2008: Hazard classes 3.1 to 3.6, 3.7 adverse effects on sexual function and fertility or on development, 3.8 effects other than narcotic effects, 3.9 and 3.10 | 1002167 Well 4 |
|--|----------------|

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Disodium [2S-(2.alpha.,5.alpha.,6.beta.)]-6-(carboxylatophenylacetamido)-3,3-dimethyl-7-oxo-4-thia-1-azabicyclo[3.2.0]heptane-2-carboxylate (4800-94-6)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)

#### 15.1.2. National regulations

No additional information available

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out

## SECTION 16: Other information

Date of Preparation or Latest Revision : 08/02/2021

Data sources : Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Other information : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

# 1002167 Well 4

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830



Full Text of H- and EUH-statements:

|               |  |
|---------------|--|
| Resp. Sens. 1 | Respiratory sensitisation, Category 1                                      |
| Skin Sens. 1  | Skin sensitisation, Category 1   |
| H317          | May cause an allergic skin reaction.                                       |
| H334          | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |

**Indication of Changes** No additional information available

### Abbreviations and Acronyms

|   |  |
|---|--|
| ACGIH – American Conference of Governmental Industrial Hygienists   | NDS – Najwyższe Dopuszczalne Stezenie  |
| ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways   | NDSch – Najwyższe Dopuszczalne Stezenie Chwilowe   |
| ADR – European Agreement Concerning the International Carriage of Dangerous Goods by Road   | NDSP – Najwyższe Dopuszczalne Stezenie Pulapowe  |
| ATE – Acute Toxicity Estimate   | NOAEL – No-Observed Adverse Effect Level   |
| BCF – Bioconcentration Factor   | NOEC – No-Observed Effect Concentration  |
| BEI – Biological Exposure Indices (BEI)   | NRD – Nevirsytinas Ribinis Dydis   |
| BOD – Biochemical Oxygen Demand   | NTP – National Toxicology Program  |
| CAS No. – Chemical Abstracts Service Number   | OEL – Occupational Exposure Limits   |
| CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008   | PBT – Persistent, Bioaccumulative and Toxic  |
| COD – Chemical Oxygen Demand  | PEL – Permissible Exposure Limit   |
| EC – European Community   | pH – Potential Hydrogen  |
| EC50 – Median Effective Concentration   | REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals                              |
| EEC – European Economic Community   | RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail                         |
| EINECS – European Inventory of Existing Commercial Chemical Substances  | SADT – Self Accelerating Decomposition Temperature   |
| EmS-No. (Fire) – IMDG Emergency Schedule Fire   | SDS – Safety Data Sheet  |
| EmS-No. (Spillage) – IMDG Emergency Schedule Spillage   | STEL – Short Term Exposure Limit   |
| EU – European Union   | STOT – Specific Target Organ Toxicity  |
| ErC50 – EC50 in Terms of Reduction Growth Rate  | TA-Luft – Technische Anleitung zur Reinhaltung der Luft  |
| GHS – Globally Harmonized System of Classification and Labeling of Chemicals  | TEL TRK – Technical Guidance Concentrations  |
| IARC – International Agency for Research on Cancer  | ThOD – Theoretical Oxygen Demand   |
| IATA – International Air Transport Association  | TLM – Median Tolerance Limit   |
| IBC Code – International Bulk Chemical Code   | TLV – Threshold Limit Value  |
| IMDG – International Maritime Dangerous Goods   | TPRD – Trumpalaikio Poveikio Ribinis Dydis   |
| IPRV – Ilgalaikio Poveikio Ribinis Dydis  | TRGS 510 – Technische Regel für Gefahrstoffe 510 – Lagerung von Gefahrstoffen in ortsbeweglichen Behältern |
| IOELV – Indicative Occupational Exposure Limit Value  | TRGS 552 – Technische Regeln für Gefahrstoffe – N-Nitrosamine  |
| LC50 – Median Lethal Concentration  | TRGS 900 – Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte                                  |
| LD50 – Median Lethal Dose   | TRGS 903 – Technische Regel für Gefahrstoffe 903 – Biologische Grenzwerte                                  |
| LOAEL – Lowest Observed Adverse Effect Level  | TSCA – Toxic Substances Control Act  |
| LOEC – Lowest-Observed-Effect Concentration   | TWA – Time Weighted Average  |
| Log Koc – Soil Organic Carbon-water Partitioning Coefficient  | VOC – Volatile Organic Compounds   |
| Log Kow – Octanol/water Partition Coefficient   | VLA-EC – Valor Límite Ambiental Exposición de Corta Duración   |
| Log Pow – Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water | VLA-ED – Valor Límite Ambiental Exposición Diaria  |
| MAK – Maximum Workplace Concentration/Maximum Permissible Concentration   | VLE – Valeur Limite D'exposition   |
| MARPOL – International Convention for the Prevention of Pollution   | VME – Valeur Limite De Moyenne Exposition  |
| EU GHS SDS  | vPvB – Very Persistent and Very Bioaccumulative  |
|   | WEL – Workplace Exposure Limit   |
|   | WGK – Wassergefährdungsklasse  |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*



# 1002172

## Safety Data Sheet

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

Date of Issue: 11/03/2022



Version: 2.0

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

#### 1.1. Product identifier

Product Form : Mixture  
Product Name : 1002172

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

##### 1.2.1. Relevant identified uses

Use of the substance/mixture : No use is specified.

##### 1.2.2. Uses advised against

No additional information available

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

##### Company

Inscripta, Inc.  
5764 Pacific Center Blvd  
San Diego, CA 92121  
619-708-8130

[www.inscripta.com](http://www.inscripta.com)

[info@inscripta.com](mailto:info@inscripta.com)

#### 1.4. Emergency telephone number

Emergency number : 1-352-323-3500

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

Classification According to Regulation (EC) No. 1272/2008 [CLP]

Not classified

#### 2.2. Label elements

Labelling According to Regulation (EC) No. 1272/2008 [CLP]

No labelling applicable

#### 2.3. Other hazards

PBT: not relevant – no registration required

vPvB: not relevant – no registration required

Other hazards not contributing to the classification : Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

### SECTION 3: Composition/information on ingredients

#### 3.1. Substances

Not applicable

#### 3.2. Mixtures

| Name               | Product identifier                      | %      | Classification According to Regulation (EC) No. 1272/2008 [CLP] |
|--------------------|---|--------|---|
| 1,2,3-Propanetriol | (CAS-No.) 56-81-5<br>(EC-No.) 200-289-5 | 7 - 13 | Not classified  |

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

First-aid measures after inhalation : When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

First-aid measures after skin contact : Remove contaminated clothing. Drench affected area with water for at least 5 minutes. Obtain medical attention if irritation develops or persists.

First-aid measures after eye contact : Rinse cautiously with water for at least 5 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

First-aid measures after ingestion : Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

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

Symptoms/effects : Not expected to present a significant hazard under anticipated conditions of normal use.

Symptoms/effects after inhalation : Prolonged exposure may cause irritation.

Symptoms/effects after skin contact : Prolonged exposure may cause skin irritation.

Symptoms/effects after eye contact : May cause slight irritation to eyes.

Symptoms/effects after ingestion : Ingestion may cause adverse effects.  
 Chronic symptoms : None known.

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

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

Suitable extinguishing media : Water spray, fog, carbon dioxide (CO<sub>2</sub>), alcohol-resistant foam, or dry chemical.  
 Unsuitable extinguishing media : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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

Fire hazard : Not considered flammable but may burn at high temperatures.  
 Explosion hazard : Product is not explosive.  
 Reactivity : Hazardous reactions will not occur under normal conditions.  
 Hazardous decomposition products in case of fire : Carbon oxides (CO, CO<sub>2</sub>). Irritating fumes.

#### 5.3. Advice for firefighters

Precautionary measures fire : Exercise caution when fighting any chemical fire.  
 Firefighting instructions : Use water spray or fog for cooling exposed containers.  
 Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

### SECTION 6: Accidental release measures

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

General measures : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing (vapor, mist, spray).

##### 6.1.1. For non-emergency personnel

Protective equipment : Use appropriate personal protective equipment (PPE).  
 Emergency procedures : Evacuate unnecessary personnel.

##### 6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.  
 Emergency procedures : Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

#### 6.2. Environmental precautions

Prevent entry to sewers and public waters.

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

For containment : Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.  
 Methods for cleaning up : Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

#### 6.4. Reference to other sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Precautions for safe handling : Avoid prolonged contact with eyes, skin and clothing. Avoid breathing vapors, mist, spray. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.  
 Hygiene measures : Handle in accordance with good industrial hygiene and safety procedures.

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

Technical measures : Comply with applicable regulations.  
 Storage conditions : Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.  
 Incompatible materials : Strong oxidizers.

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

No use is specified.


### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

| 1,2,3-Propanetriol (56-81-5) |  |                             |
|------------------------------|--|-----------------------------|
| Belgium                      | Limit value [mg/m <sup>3</sup> ]                           | 10 mg/m <sup>3</sup> (mist) |
| Croatia                      | GVI (granična vrijednost izloženosti) (mg/m <sup>3</sup> ) | 10 mg/m <sup>3</sup>        |

| 1,2,3-Propanetriol (56-81-5) |  |   |
|------------------------------|--|---|
| France                       | VME [mg/m <sup>3</sup> ]                               | 10 mg/m <sup>3</sup> (aerosol)  |
| Germany                      | Occupational exposure limit value (mg/m <sup>3</sup> ) | 200 mg/m <sup>3</sup> (the risk of damage to the embryo or fetus can be excluded when AGW and BGW values are observed-inhalable fraction) |
| Greece                       | OEL TWA (mg/m <sup>3</sup> )                           | 10 mg/m <sup>3</sup>  |
| Spain                        | VLA-ED (mg/m <sup>3</sup> )                            | 10 mg/m <sup>3</sup> (mist)   |
| Switzerland                  | KZGW (mg/m <sup>3</sup> )                              | 100 mg/m <sup>3</sup> (inhalable dust)  |
| Switzerland                  | MAK (mg/m <sup>3</sup> )                               | 50 mg/m <sup>3</sup> (inhalable dust)   |
| United Kingdom               | WEL TWA (mg/m <sup>3</sup> )                           | 10 mg/m <sup>3</sup> (mist)   |
| United Kingdom               | WEL STEL (mg/m <sup>3</sup> )                          | 30 mg/m <sup>3</sup> (calculated-mist)  |
| Czech Republic               | Expoziční limity (PEL) (mg/m <sup>3</sup> )            | 10 mg/m <sup>3</sup>  |
| Estonia                      | OEL TWA (mg/m <sup>3</sup> )                           | 10 mg/m <sup>3</sup>  |
| Finland                      | HTP-arvo (8h) (mg/m <sup>3</sup> )                     | 20 mg/m <sup>3</sup>  |
| Poland                       | NDS (mg/m <sup>3</sup> )                               | 10 mg/m <sup>3</sup> (inhalable fraction)   |
| Slovakia                     | NPHV (priemerná) (mg/m <sup>3</sup> )                  | 11 mg/m <sup>3</sup>  |
| Slovenia                     | OEL TWA (mg/m <sup>3</sup> )                           | 200 mg/m <sup>3</sup> (inhalable fraction)  |
| Slovenia                     | OEL STEL (mg/m <sup>3</sup> )                          | 400 mg/m <sup>3</sup> (inhalable fraction)  |
| Portugal                     | OEL TWA (mg/m <sup>3</sup> )                           | 10 mg/m <sup>3</sup> (mist)   |

## 8.2. Exposure controls

- Appropriate engineering controls : Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.
- Personal protective equipment : Gloves. Protective clothing. Protective goggles.
- 
- Materials for protective clothing : Chemically resistant materials and fabrics.
- Hand protection : Wear protective gloves.
- Eye and Face Protection : Chemical safety goggles.
- Skin and body protection : Wear suitable protective clothing.
- Respiratory protection : If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.
- Other information : When using, do not eat, drink or smoke.

## SECTION 9: Physical and chemical properties

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

- Physical state : Liquid
- Appearance : No data available
- Colour : No data available
- Odour : No data available
- Odour threshold : No data available
- pH : No data available
- Evaporation rate : No data available
- Melting point : No data available
- Freezing point : No data available
- Boiling point : No data available
- Flash point : No data available
- Auto-ignition temperature : No data available
- Decomposition temperature : No data available
- Flammability (solid, gas) : Not applicable
- Vapour pressure : No data available
- Relative vapour density at 20 °C : No data available
- Relative density : No data available
- Solubility : No data available
- Partition coefficient: n-octanol/water : No data available

|                      |                     |
|----------------------|---------------------|
| Viscosity            | : No data available |
| Explosive properties | : No data available |
| Oxidising properties | : No data available |
| Explosive limits     | : No data available |

**9.2. Other information**

No additional information available

**SECTION 10: Stability and reactivity****10.1. Reactivity**

Hazardous reactions will not occur under normal conditions.

**10.2. Chemical stability**

Stable under recommended handling and storage conditions (see section 7).

**10.3. Possibility of hazardous reactions**

Hazardous polymerization will not occur.

**10.4. Conditions to avoid**

Direct sunlight, extremely high or low temperatures, and incompatible materials.

**10.5. Incompatible materials**

Strong oxidizers.

**10.6. Hazardous decomposition products**

Not expected to decompose under ambient conditions. Thermal decomposition may release acrolein.

**SECTION 11: Toxicological information****11.1. Information on toxicological effects**

Acute toxicity : Not classified (Based on available data, the classification criteria are not met)

|                                     |  |
|-------------------------------------|--|
| <b>1,2,3-Propanetriol (56-81-5)</b> |  |
| LD50 oral rat                       | 12600 mg/kg                                  |
| LD50 dermal rabbit                  | > 10 g/kg                                    |
| LC50 Inhalation - Rat               | > 570 mg/m <sup>3</sup> (Exposure time: 1 h) |

|                                      |   |
|--------------------------------------|---|
| Skin corrosion/irritation            | : Not classified (Based on available data, the classification criteria are not met) |
| Serious eye damage/irritation        | : Not classified (Based on available data, the classification criteria are not met) |
| Respiratory or skin sensitisation    | : Not classified (Based on available data, the classification criteria are not met) |
| Germ cell mutagenicity               | : Not classified (Based on available data, the classification criteria are not met) |
| Carcinogenicity                      | : Not classified (Based on available data, the classification criteria are not met) |
| Reproductive toxicity                | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-single exposure                 | : Not classified (Based on available data, the classification criteria are not met) |
| STOT-repeated exposure               | : Not classified (Based on available data, the classification criteria are not met) |
| Aspiration hazard                    | : Not classified (Based on available data, the classification criteria are not met) |
| Symptoms/Injuries After Inhalation   | : Prolonged exposure may cause irritation.  |
| Symptoms/Injuries After Skin Contact | : Prolonged exposure may cause skin irritation.                                     |
| Symptoms/Injuries After Eye Contact  | : May cause slight irritation to eyes.  |
| Symptoms/Injuries After Ingestion    | : Ingestion may cause adverse effects.  |
| Chronic Symptoms                     | : None known.   |

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

Ecology - general : Not classified.

|                                     |  |
|-------------------------------------|--|
| <b>1,2,3-Propanetriol (56-81-5)</b> |  |
| LC50 fish 1                         | 54000 (51000 - 57000) mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss [static]) |

**12.2. Persistence and degradability**

|                               |                  |
|-------------------------------|------------------|
| <b>1002172</b>                |                  |
| Persistence and degradability | Not established. |

**12.3. Bioaccumulative potential**

|   |                      |
|---|----------------------|
| <b>1002172</b>                                  |                      |
| Bioaccumulative potential                       | Not established.     |
| <b>1,2,3-Propanetriol (56-81-5)</b>             |                      |
| BCF fish 1                                      | (no bioaccumulation) |
| Partition coefficient n-octanol/water (Log Pow) | -1,76                |

**12.4. Mobility in soil**

No additional information available

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

|   |
|---|
| 1002172                                       |
| PBT: not relevant – no registration required  |
| vPvB: not relevant – no registration required |

**12.6. Other adverse effects**

Other information : Avoid release to the environment.

**SECTION 13: Disposal considerations****13.1. Waste treatment methods**

Product/Packaging disposal : Dispose of contents/container in accordance with local, regional, national, and international regulations.

Ecology – waste materials : Avoid release to the environment.

**SECTION 14: Transport information**

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued. In accordance with ADR / RID / IMDG / IATA / ADN

| ADR                                     | IMDG  | IATA                               | ADN                                | RID                                |
|---|---|------------------------------------|------------------------------------|------------------------------------|
| <b>14.1. UN number</b>                  |   |                                    |                                    |                                    |
| Not regulated for transport             |   |                                    |                                    |                                    |
| <b>14.2. UN proper shipping name</b>    |   |                                    |                                    |                                    |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| <b>14.3. Transport hazard class(es)</b> |   |                                    |                                    |                                    |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| <b>14.4. Packing group</b>              |   |                                    |                                    |                                    |
| Not applicable                          | Not applicable  | Not applicable                     | Not applicable                     | Not applicable                     |
| <b>14.5. Environmental hazards</b>      |   |                                    |                                    |                                    |
| Dangerous for the environment : No      | Dangerous for the environment : No<br>Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |

**14.6. Special precautions for user**

No additional information available

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

Not applicable

**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****15.1.1. EU-Regulations**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

|  |
|--|
| <b>1,2,3-Propanetriol (56-81-5)</b>  |
| Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances) |

**15.1.2. National regulations**

No additional information available

**15.2. Chemical safety assessment**

No chemical safety assessment has been carried out

**SECTION 16: Other information**

Date of Preparation or Latest Revision : 08/02/2021

Data sources : Information and data obtained and used in the authoring of this safety data sheet could come from database subscriptions, official government regulatory body websites, product/ingredient manufacturer or supplier specific information, and/or resources that include substance specific data and classifications according to GHS or their subsequent adoption of GHS.

Other information : According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830

## Abbreviations and Acronyms

|   |  |
|---|--|
| ACGIH – American Conference of Governmental Industrial Hygienists   | NDS – Najwyższe Dopuszczalne Stezenie  |
| ADN – European Agreement Concerning the International Carriage of Dangerous Goods by Inland Waterways   | NDSCh – Najwyższe Dopuszczalne Stezenie Chwilowe   |
| ADR – European Agreement Concerning the International Carriage of Dangerous Goods by Road   | NDSP – Najwyższe Dopuszczalne Stezenie Pulapowe  |
| ATE – Acute Toxicity Estimate   | NOAEL – No-Observed Adverse Effect Level   |
| BCF – Bioconcentration Factor   | NOEC – No-Observed Effect Concentration  |
| BEI – Biological Exposure Indices (BEI)   | NRD – Nevirsyftinas Ribinis Dydis  |
| BOD – Biochemical Oxygen Demand   | NTP – National Toxicology Program  |
| CAS No. – Chemical Abstracts Service Number   | OEL – Occupational Exposure Limits   |
| CLP – Classification, Labeling and Packaging Regulation (EC) No 1272/2008   | PBT – Persistent, Bioaccumulative and Toxic  |
| COD – Chemical Oxygen Demand  | PEL – Permissible Exposure Limit   |
| EC – European Community   | pH – Potential Hydrogen  |
| EC50 – Median Effective Concentration   | REACH – Registration, Evaluation, Authorisation, and Restriction of Chemicals                              |
| EEC – European Economic Community   | RID – Regulations Concerning the International Carriage of Dangerous Goods by Rail                         |
| EINECS – European Inventory of Existing Commercial Chemical Substances  | SADT – Self Accelerating Decomposition Temperature   |
| EmS-No. (Fire) – IMDG Emergency Schedule Fire   | SDS – Safety Data Sheet  |
| EmS-No. (Spillage) – IMDG Emergency Schedule Spillage   | STEL – Short Term Exposure Limit   |
| EU – European Union   | STOT – Specific Target Organ Toxicity  |
| ErC50 – EC50 in Terms of Reduction Growth Rate  | TA-Luft – Technische Anleitung zur Reinhaltung der Luft  |
| GHS – Globally Harmonized System of Classification and Labeling of Chemicals  | TEL TRK – Technical Guidance Concentrations  |
| IARC – International Agency for Research on Cancer  | ThOD – Theoretical Oxygen Demand   |
| IATA – International Air Transport Association  | TLM – Median Tolerance Limit   |
| IBC Code – International Bulk Chemical Code   | TLV – Threshold Limit Value  |
| IMDG – International Maritime Dangerous Goods   | TPRD – Trumpalaikio Poveikio Ribinis Dydis   |
| IPRV – Ilgalaikio Poveikio Ribinis Dydis  | TRGS 510 – Technische Regel für Gefahrstoffe 510 – Lagerung von Gefahrstoffen in ortsbeweglichen Behältern |
| IOELV – Indicative Occupational Exposure Limit Value  | TRGS 552 – Technische Regeln für Gefahrstoffe – N-Nitrosamine  |
| LC50 – Median Lethal Concentration  | TRGS 900 – Technische Regel für Gefahrstoffe 900 – Arbeitsplatzgrenzwerte                                  |
| LD50 – Median Lethal Dose   | TRGS 903 – Technische Regel für Gefahrstoffe 903 – Biologische Grenzwerte                                  |
| LOAEL – Lowest Observed Adverse Effect Level  | TSCA – Toxic Substances Control Act  |
| LOEC – Lowest-Observed-Effect Concentration   | TWA – Time Weighted Average  |
| Log Koc – Soil Organic Carbon-water Partitioning Coefficient  | VOC – Volatile Organic Compounds   |
| Log Kow – Octanol/water Partition Coefficient   | VLA-EC – Valor Límite Ambiental Exposición de Corta Duración   |
| Log Pow – Ratio of the equilibrium concentration (C) of a dissolved substance in a two-phase system consisting of two largely immiscible solvents, in this case octanol and water | VLA-ED – Valor Límite Ambiental Exposición Diaria  |
| MAK – Maximum Workplace Concentration/Maximum Permissible Concentration   | VLE – Valeur Limite D'exposition   |
| MARPOL – International Convention for the Prevention of Pollution   | VME – Valeur Limite De Moyenne Exposition  |
| EU GHS SDS  | vPvB – Very Persistent and Very Bioaccumulative  |
|   | WEL – Workplace Exposure Limit   |
|   | WGK – Wassergefährdungsklasse  |

*This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.*