

Box 1002452 Component SDS

REF 1002452

Onyx® Genome Engineering Kit Onyx Design DNA – S. cerevisiae

Consumable ID Number	Consumable Ref Number and Relevant Well	
4	1002174 Well 1	
4	1002174 Well 3	
4	1002174 Well 5	
*Note: Consumable wells are numbered such that Well 1 is the well closest to the Chamfer		

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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 Product identifier 1.1. Product Form : Mixture **Product Name** : 1002174 Well 1 Relevant identified uses of the substance or mixture and uses advised against 12 **Relevant identified uses** 1.2.1. Use of the substance/mixture : No use is specified. Uses advised against 1.2.2. 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 info@inscripta.com 1.4. **Emergency telephone number** : 1-352-323-3500 **Emergency number SECTION 2: Hazards identification** 2.1. Classification of the substance or mixture Classification According to Regulation (EC) No. 1272/2008 [CLP] Acute Tox. 3 (Oral) H301 Acute Tox. 3 (Dermal) H311 Acute Tox. 1 (Inhalation:dust,mist) H330 H318 Eye Dam. 1 Resp. Sens. 1 H334 Full text of hazard classes and H-statements : see section 16 22 Label elements Labelling According to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) Signal word (CLP) : Danger Hazard statements (CLP) : H301+H311 - Toxic if swallowed or in contact with skin H318 - Causes serious eye damage. H330 - Fatal if inhaled. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled. Precautionary statements (CLP) : P260 - Do not breathe dust/fume/gas/mist/vapours/spray. P264 - Wash hands, forearms and face thoroughly after handling. P270 - Do not eat, drink or smoke when using this product. P271 - Use only outdoors or in a well-ventilated area. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P284 - Wear respiratory protection. P301+P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor. P302+P352 - IF ON SKIN: Wash with plenty of water. P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P310 - Immediately call a POISON CENTER or doctor. P312 - Call a POISON CENTRE or doctor if you feel unwell. P320 - Specific treatment is urgent (see supplemental first aid instruction on this label). P321 - Specific treatment (see supplemental first aid instruction on this label).

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P330 - Rinse mouth.

P342+P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor. P361+P364 - Take off immediately all contaminated clothing and wash it before

reuse.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed. P405 - Store locked up.

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

Other hazards not contributing to the

: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.

classification

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]
Hygromycin B	(CAS-No.) 31282-04- 9 (EC-No.) 250-545-5	3 – 7	Acute Tox. 2 (Oral), H300 Acute Tox. 2 (Dermal), H310 Acute Tox. 1 (Inhalation:dust,mist), H330 Eye Dam. 1, H318 Resp. Sens. 1, H334

Full text of H-statements: see section 16

ires
: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
: First, take proper precautions to ensure your own safety before attempting rescue (e.g. wear appropriate respiratory protective equipment, use the buddy system), then remove the exposed person to fresh air. Keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.
: Immediately remove contaminated clothing. Immediately drench affected area with water for at least 15 minutes. Immediately call a poison center or doctor/physician.
: Immediately rinse with water for at least 30 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
: Do NOT induce vomiting. Rinse mouth. Immediately call a POISON CENTER or doctor.
nd effects, both acute and delayed
: Fatal if inhaled. Toxic if swallowed. Toxic in contact with skin. May cause allergy or asthma symptoms or breathing difficulties if inhaled. Causes serious eye damage.
: Exposure may produce cough, mucous secretions, shortness of breath, chest tightness or other symptoms indicative of an allergic/sensitization reaction. Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death.
: This material is toxic in small amounts through skin contact, and can cause adverse health effects or death. This material may be absorbed through the skin and eyes.
: Causes permanent damage to the cornea, iris, or conjunctiva.
: This material is toxic in small amounts orally, and can cause adverse health effects or death.
: None expected under normal conditions of use.
medical attention and special treatment needed
ice and attention. If medical advice is needed, have product container or label at hand.
ires
: Water spray, fog, carbon dioxide (CO ₂), alcohol-resistant foam, or dry chemical. : Do not use a heavy water stream. Use of heavy stream of water may spread fire.

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5.2. Special hazards arising from	
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 ₂). Sulphur oxides.
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, protect	tive equipment and emergency procedures
General measures	: Do not breathe vapour, 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 cor	
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. Ventilate area.
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	to a sunable container for disposal. Contact competent authornies after a spill.
	ersonal protection and Section 13 for disposal considerations.
SECTION 7: Handling and store	
7.1. Precautions for safe handling	
Precautions for safe handling	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Handle empty containers with care because they may still present a hazard. Do not get in eyes, on skin, or on clothing Do not breathe vapours, mist, spray. Use only outdoors or in a well-ventilated area
Hygiene measures	: Handle in accordance with good industrial hygiene and safety procedures.
	ncluding 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 awa from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.
Incompatible materials	: Strong acids, strong bases, strong oxidizers.
7.3. Specific end use(s)	
No use is specified.	
	nersonal protection
SECTION 8: Exposure controls/ 8.1. Control parameters	

Hygromycin B (31282-04-9) Latvia OEL TWA (mg/m³) 0,001 mg/m³ 8.2. Exposure controls Appropriate engineering controls : Ensure adequate ventilation, especially in confined areas. Ensure all national/local

Ensure adequate ventilation, especially in contined areas. Ensure all national/local regulations are observed. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Gas detectors should be used when toxic gases may be released.

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Hand protection

Eye and Face Protection

Skin and body protection

Respiratory protection

Other information

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

Personal protective equipment

Materials for protective clothing

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

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- : Chemically resistant materials and fabrics.
- : Wear protective gloves.
- : Chemical safety goggles.
- : Wear suitable protective clothing.
- : 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 of smoke.
SECTION 9: Physical and chemi	cal 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	
рН	:	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			

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 acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Sulfur oxides. Carbon oxides (CO, CO₂).

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SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

: Toxic if swallowed or in contact with skin. Toxic in contact with skin or if inhaled.

1002174 Well 1	
ATE CLP (oral)	185,71 mg/kg bodyweight
ATE CLP (dermal)	714,29 mg/kg bodyweight
ATE CLP (dust,mist)	0,03 mg/l/4h
Hygromycin B (31282-04-9)	
LD50 oral rat	13 mg/kg
LC50 Inhalation – Rat	2220 μg/m³ (Exposure time: 4 h)
ATE CLP (dermal)	50,00 mg/kg bodyweight
Skin corrosion/irritation	: Not classified (Based on available data, the classification criteria are not met)
Serious eye damage/irritation	: Causes serious eye damage.
Respiratory or skin sensitisation	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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. Inhalation of this material can cause serious health effects in small amounts, leading to unconsciousness and death.
Symptoms/Injuries After Skin Contact	: This material is toxic in small amounts through skin contact, and can cause adverse health effects or death. This material may be absorbed through the skin and eyes.
Symptoms/Injuries After Eye Contact	: Causes permanent damage to the cornea, iris, or conjunctiva.
Symptoms/Injuries After Ingestion	: This material is toxic in small amounts orally, and can cause adverse health effects or death.
Chronic Symptoms	: None expected under normal conditions of use.
SECTION 12: Ecological information	tion

- 12.1. Toxicity
- Ecology general

: Not classified.

Persistence and degradability 12.2. 1002174 Well 1 Persistence and degradability Not established. **Bioaccumulative potential** 12.3. 1002174 Well 1 **Bioaccumulative potential** Not established. 12.4. Mobility in soil No additional information available **Results of PBT and vPvB assessment** 12.5. No additional information available 12.6. Other adverse effects Other information : Avoid release to the environment.

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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. Additional information : Container may remain hazardous when empty. Continue to observe all precautions.

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	ΙΑΤΑ	ADN	RID
14.1. UN number				
2810	2810	2810	2810	2810
14.2. UN proper sh	ipping name			
TOXIC LIQUID,	TOXIC LIQUID,	Toxic liquid, organic,	TOXIC LIQUID,	TOXIC LIQUID,
ORGANIC, N.O.S.	ORGANIC, N.O.S.	n.o.s. (CONTAINS :	ORGANIC, N.O.S.	ORGANIC, N.O.S.
(CONTAINS :	(CONTAINS :	Hygromycin B)	(CONTAINS :	(CONTAINS :
Hygromycin B)	Hygromycin B)		Hygromycin B)	Hygromycin B)
14.3. Transport ha	zard class(es)			
6.1	6.1	6.1	6.1	6.1
6		6	6	6
14.4. Packing group				
Ι	1		1	1
14.5. Environmental hazards				
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : No	environment : No	environment : No	environment : No	environment : No
	Marine pollutant : 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:

1002174 Well 1

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Hygromycin B (31282-04-9)

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

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

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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

The Digital Genome Engineering Company

Full Text of H- and EUH-statements:

Acute Tox. 1 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 1
Acute Tox. 2 (Dermal)	Acute toxicity (dermal), Category 2
Acute Tox. 2 (Oral)	Acute toxicity (oral), Category 2
Acute Tox. 3 (Dermal)	Acute toxicity (dermal), Category 3
Acute Tox. 3 (Oral)	Acute toxicity (oral), Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Resp. Sens. 1	Respiratory sensitisation, Category 1
H300	Fatal if swallowed.
H301	Toxic if swallowed.
H310	Fatal in contact with skin.
H311	Toxic in contact with skin.
H318	Causes serious eye damage.
H330	Fatal if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Indication of Changes No additional information available

Α

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

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.



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

Product Form : Mixture Product Name : 1002174 Well 3 Relevant identified uses of the substance or mixture and uses advised against 2.1 Relevant identified uses Use of the substance/mixture : No use is specified. 2.2 Uses advised against o additional information available 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 Info@inscripta.com 1. Classification of the substance or mixture Emergency telephone number Emergency telephone number Emergency telephone number Emergency telephone number Emergency telephone number 1. Classification of the substance or mixture lassification According to Regulation (EC) No. 1272/2008 [CLP] Skin Irrit. 2 Eye Irrit. 2 Label elements babelling According to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) Signal word (CLP) Frecoutionary statements (CLP) Precoutionary stateme	Bale of	155de. 1/ 05/2022 Version. 2.0
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Use of the substance/mixture : No use is specified. .2.2. Uses advised against va additional information available .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 info@inscripta.com 169-708-8130 www.inscripta.com 164. Emergency telephone number Emergency number : 1-352-323-3500 SECTION 2: Hazard's identification 2.1. Classification of the substance or mixture Classification for the substance or mixture Classification for the substance or mixture Classification according to Regulation (EC) No. 1272/2008 [CLP] Skin Irrit. 2 H315 Eye Irrit. 2 H315 Classes and H-statements : see section 16 2.2. Label elements -abelling According to Regulation (EC) No. 1272/2008 [CLP] Hazard pictograms (CLP) : Warning Hazard pictograms (CLP) : Warning Hazard statements (CLP) : P264 - Wash hands, forearms and face throughly after handling. Precautionary statements (CLP) : P264 - Wash hands, forearms and face throughly after handling. P280 - Wear protective gloves/protective clothing/eye protection/face protection/hearing protection. P302+P352 - IF IN SKIN: Wash with plenty of water. P305+P351+P318 - IF IN EYES: Rinse cautiously with water for several mi Remove contact lenses, if present and easy to do. Continue rinsing.	I.2. Relevant identified uses of th	e substance or mixture and uses advised against
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2.3. Other hazards		: Exposure may aggravate pre-existing eye, skin, or respiratory conditions.
2.3. Other hazards Other hazards not contributing to the : Exposure may aggravate pre-existing eye, skin, or respiratory condition		
P332+P313 – If skin irritation occurs: Get medical advice/attention. P337+P313 – If eye irritation persists: Get medical advice/attention.		protection/hearing protection. P302+P352 – IF ON SKIN: Wash with plenty of water. P305+P351+P338 – IF IN EYES: Rinse cautiously with water for several minute Remove contact lenses, if present and easy to do. Continue rinsing. P321 – Specific treatment (see supplemental first aid instruction on this labe P332+P313 – If skin irritation occurs: Get medical advice/attention.
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2.3. Other hazards Other hazards not contributing to the : Exposure may aggravate pre-existing eye, skin, or respiratory condition classification SECTION 3: Composition/information on ingredients	3.1. Substances	

3.1. Substances

- Not applicable
- 3.2. Mixtures

Safety Data Sheet

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



Name	Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
2,3-Butanediol, 1,4-dimercapto-, (R*,R*)-	(CAS-No.) 3483-12-3 (EC-No.) 222-468-7	10 - < 20	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Irrit. 2, H319 STOT SE 3, H335

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measur	es
First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek
C C	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. Immediately drench affected area with water for
First sid as source often and contract	at least 15 minutes. Obtain medical attention if irritation develops or persists.
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.
	l effects, both acute and delayed
Symptoms/effects	: Causes skin irritation. Causes serious eye irritation.
Symptoms/effects after inhalation	: Prolonged exposure may cause irritation.
Symptoms/effects after skin contact	: Redness, pain, swelling, itching, burning, dryness, and dermatitis.
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	: None expected under normal conditions of use.
	edical attention and special treatment needed
	e and attention. If medical advice is needed, have product container or label at hand.
SECTION 5: Firefighting measur	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray, fog, carbon dioxide (CO2), 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 t	
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	: Carbon oxides (CO, CO $_2$). Sulphur oxides.
case of fire	
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 r	
	ve equipment and emergency procedures
General measures	: Avoid breathing (vapour, mist, spray). Avoid all contact with skin, eyes, or 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
5 71 5 5	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 cont	ainment and cleaning up
For containment	: Contain any spills with dikes or absorbents to prevent migration and entry into
. e. comannon	

: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams.

INSCRIPTA The Digital Genome Engineering Company Safety Data Sheet According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2015/830 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 contact with skin, eyes and clothing. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Avoid breathing vapours, mist, spray. : Handle in accordance with good industrial hygiene and safety procedures. Hygiene measures 7.2. Conditions for safe storage, including any incompatibilities **Technical measures** : Comply with applicable regulations. : Keep container closed when not in use. Store in a dry, cool place. Keep/Store away Storage conditions from direct sunlight, extremely high or low temperatures and incompatible materials. Incompatible materials : Strong acids, strong bases, strong oxidizers. 7.3. Specific end use(s) No use is specified. **SECTION 8: Exposure controls/personal protection Control parameters** 8.1. No additional information available 8.2. **Exposure controls** : Emergency eye wash fountains and safety showers should be available in the Appropriate engineering controls immediate 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. : If exposure limits are exceeded or irritation is experienced, approved respiratory **Respiratory protection** 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** Information on basic physical and chemical properties 9.1. Physical state : Liquid No data available Appearance • Colour No data available • Odour : No data available Odour threshold : No data available pН : No data available **Evaporation** rate No data available • Melting point : No data available : No data available Freezing point : No data available **Boiling point** No data available Flash point • Auto-ignition temperature : No data available : No data available Decomposition temperature Flammability (solid, gas) : Not applicable No data available

No data available

Vapour pressure : Relative vapour density at 20 °C : No data available **Relative density**

Safety Data Sheet

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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 acids, strong bases, strong oxidizers.

10.6. Hazardous decomposition products

Carbon oxides (CO, CO₂). Sulfur oxides.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

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

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2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)			
ATE CLP (oral)	500,00 mg/kg bodyweight		
Skin corrosion/irritation	: Causes skin irritation.		
Serious eye damage/irritation	: Causes serious eye irritation.		
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	: Redness, pain, swelling, itching, burning, dryness, and dermatitis.		
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	: None expected under normal conditions of use.		
SECTION 12: Ecological information	on		
12.1. Toxicity			
Ecology - general :	: Not classified.		
12.2. Persistence and degradability			
1002174 Well 3			
Persistence and degradability	Not established.		
12.3. Bioaccumulative potential			
1002174 Well 3			
Bioaccumulative potential	Not established.		

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other information	: Avoid release to the environment.
SECTION 13: Disposal conside	erations
13.1. Waste treatment methods	
Product/Packaging disposal recommendations	: Dispose of contents/container in accordance with local, regional, national, and international regulations.
Additional information	: Container may remain hazardous when empty. Continue to observe all precautions.
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	ΙΑΤΑ	ADN	RID
14.1. UN numbe	r			
Not regulated for tra	Insport			
14.2. UN proper	shipping name			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.3. Transport hazard class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.4. Packing gi	oup			
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environme	ental hazards			
Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the	Dangerous for the
environment : No	environment : No	environment : No	environment : No	environment : No
	Marine pollutant : 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:

5 II 5	o
3(b) Substances or mixtures fulfilling the criteria for any of	1002174 Well 3
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	

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

2,3-Butanediol, 1,4-dimercapto-, (R*,R*)- (3483-12-3)

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

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

The Digital Genome Engineering Company

Safety Data Sheet

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

3 3 ()	
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

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Full Text of H- and EUH-statements:

Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT SE 3	Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation
H302	Harmful if swallowed.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.

Indication of Changes No additional information available

Abbreviations and Acronyms

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

 $\ensuremath{\mathsf{MARPOL}}$ - International Convention for the Prevention of Pollution EU GHS SDS

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.

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

Dat	te of Issue: 11/03/2022	Version: 2.0
SECTION 1 <u>: Identification of</u>	the substance/mixture and e	of the company/undertaking
.1. Product identifier		
Product Form	: Mixture	
Product Name	: 1002174 Well 5	
.2. Relevant identified uses a	of the substance or mixture and use	es advised against
.2.1. Relevant identified uses		
Use of the substance/mixture	: No use is specified.	
.2.2. Uses advised against		
No additional information available		
.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		
info@inscripta.com		
I.4. Emergency telephone nu	mber	
Emergency number :	1-352-323-3500	
SECTION 2: Hazards identif	ication	
2.1. Classification of the subs	tance or mixture	
Classification According to Regulation	on (EC) No. 1272/2008 [CLP]	
Resp. Sens. 1	H334	
Skin Sens. 1	H317	
Full text of hazard classes and H-stat	ements : see section 16	
2.2. Label elements		
Labelling According to Regulation (E	C) No. 1272/2008 [CLP]	
Hazard pictograms (CLP)	: 🔨	
Signal word (CLP)	: Danger	
Hazard statements (CLP)	: H317 - May cause an allergic s	skin reaction
		asthma symptoms or breathing difficulties if inhale
Precautionary statements (CLP)	: P261 - Avoid breathing vapors	
,		othing should not be allowed out of the workplace.
		s/protective clothing/eye protection/face
	protection/hearing protection	
	P284 – Wear respiratory prote	
	P302+P352 - IF ON SKIN: Wash	
		nove person to fresh air and keep comfortable for
	breathing.	
		e supplemental first aid instruction on this label).
		r rash occurs: Get medical advice/attention.
		espiratory symptoms: Call a POISON CENTER or
	doctor. B362+B364 Take off contami	ingtod clothing and wash it hafara rouse
		inated clothing and wash it before reuse. Intainer to hazardous or special waste collection
		al, regional, national and/or international regulation
2.3. Other hazards		a, regional, national and/or international regulation
PBT: not relevant – no registration re	quired	
/PvB: not relevant – no registration re	•	
Other har and a st contribution to the		aviating availating an magnimute magnitude a

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

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

Safety Data Sheet

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



3.2. Mixtures		1		
Name		Product identifier	%	Classification According to Regulation (EC) No. 1272/2008 [CLP]
Disodium [2S-(2.alpha.,5.alpha.,6.beta.)] (carboxylatophenylacetamido)-3,3-dime		(CAS-No.) 4800-94- 6	1 - 5	Resp. Sens. 1, H334 Skin Sens. 1, H317
thia-1-azabicyclo[3.2.0]heptane-2-carbo		(EC-No.) 225-360-8		, -
Full text of H-statements: see section 16	-	I		
SECTION 4: First aid measures				
4.1. Description of first aid measu	res			
First-aid measures general	: Never give a	anything by mouth to a vice (show the label wh		cious person. If you feel unwell, seek ble).
First-aid measures after inhalation		toms occur: go into ope ention if breathing diffi		d ventilate suspected area. Obtain ists.
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		n. Do NOT induce vomi	ting. Obto	in medical attention.
4.2. Most important symptoms an		•		
Symptoms/effects	: May cause sensitisation		otoms or l	breathing difficulties if inhaled. Skin
Symptoms/effects after inhalation				etions, shortness of breath, chest n allergic/sensitization reaction.
Symptoms/effects after skin contact		an allergic skin reactio	n.	
Symptoms/effects after eye contact		slight irritation to eyes.		
Symptoms/effects after ingestion		ay cause adverse effec	cts.	
Chronic symptoms		e an allergic reaction.		
4.3. Indication of any immediate r				
If exposed or concerned, get medical advi		. If medical davice is ne	eeaea, no	ive product container or label at hand
SECTION 5: Firefighting measu	res			
5.1. Extinguishing media				1. <i>c</i> .
Suitable extinguishing media		ishing media approprie		
Unsuitable extinguishing media			Use of ne	avy stream of water may spread fire.
5.2. Special hazards arising from Fire hazard			the wate	ar has aver are to d
Explosion hazard	: Product is n	port combustion unless	ine ware	er has evaporatea.
Reactivity		reactions will not occur	under no	ormal conditions.
Hazardous decomposition products in case of fire		des (CO, CO ₂). Sodium		
5.3. Advice for firefighters				
•	· Exercise ca	ition when fighting an	chamica	l fire
Precautionary measures fire Firefighting instructions		ution when fighting any pray or fog for cooling		
Protection during firefighting				ctive equipment, including respiratory
SECTION 6: Accidental release				
		and emergency are	codures	
6.1. Personal precautions, protect General measures				get in eyes, on skin, or on clothing.
6.1.1. For non-emergency personnel	. Do nor bred	me vapor, misi or spra	y. Do noi	ger in eyes, on skin, or on cioning.
Protective equipment	: Use approp	riate personal protectiv	ve equipr	nent (PPE).
Emergency procedures		necessary personnel.		
6.1.2. For emergency responders		, , , , , , , , , , , , , , , , , , , ,		
Protective equipment	: Equip clean	up crew with proper pi	rotection.	
Emergency procedures	: Upon arriva of dangerou	l at the scene, a first re us goods, protect onese	sponder elf and the	is expected to recognize the presence e public, secure the area, and call for as conditions permit. Ventilate area.
6.2 Environmental processions				are contained by permit vermitere dred.

6.2. Environmental precautions

Prevent entry to sewers and public waters.

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



Accordi	ng to Regulation (EC) No. 1907/2006 (R	EACH) with its amendment Regulation (EU) 2015/830		
6.3.	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		
Matheada far ala waina wa		sewers or streams.		
Methods for cleaning up		: Clean up spills immediately and dispose of waste safely. Transfer spilled material		
6.4. Reference to other sections		to a suitable container for disposal. Contact competent authorities after a spill.		
		personal protection and Section 13 for disposal considerations.		
SECTION 7: Handling and storage				
7.1.	Precautions for safe handlin			
Prec	autions 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. 		
Hygi	ene measures	: Handle in accordance with good industrial hygiene and safety procedures.		
7.2.		including any incompatibilities		
Tech	inical measures	: Comply with applicable regulations.		
Store	age 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. 		
Inco	mpatible materials	: Oxidizers.		
7.3.	Specific end use(s)			
	e is specified.			
SEC	TION 8: Exposure controls	/personal protection		
8.1.	Control parameters			
	ditional information available			
8.2.	Exposure controls			
Аррі	opriate engineering controls	: Suitable eye/body wash equipment should be available in the vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas.		
Personal protective equipment		Ensure all national/local regulations are observed. : Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.		
Materials for protective clothing : C		: Chemically resistant materials and fabrics.		
	d protection	: Wear protective gloves.		
Eye and Face Protection		: Chemical safety goggles.		
<i>,</i> ,		: Wear suitable protective clothing. : If exposure limits are exceeded or irritation is experienced, approved respiratory		
Respiratory protection		protection should be worn. In case of inadequate ventilation, oxygen deficient		
		atmosphere, or where exposure levels are not known wear approved respiratory		
		protection.		
Othe	er information	: When using, do not eat, drink or smoke.		
SEC	TION 9: Physical and chen	nical properties		
9.1.	Information on basic physic	al and chemical properties		
Phys	ical state	: Liquid		
Appe	earance	: No data available		
Colo	lour : No data available			
Odo		: No data available		
	ur threshold	: No data available		
pH	oration rate	: No data available		
	poration rate ing point	: No data available : No data available		
	zing point	: No data available		
	ng point	: No data available		
	ng point	: No data available		
	-ignition temperature	: No data available		

: No data available

: No data available

: Not applicable

Vapour pressure

Decomposition temperature

Flammability (solid, gas)

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)

LD50 oral rat	> 10 g/kg	
Skin corrosion/irritation	Not classified (B	ased on available data, the classification criteria are not met)
Serious eye damage/irritation	Not classified (B	ased on available data, the classification criteria are not met)
Respiratory or skin sensitisation	May cause aller cause an allergi	gy or asthma symptoms or breathing difficulties if inhaled. May c skin reaction.
Germ cell mutagenicity	Not classified (B	ased on available data, the classification criteria are not met)
Carcinogenicity	Not classified (B	ased on available data, the classification criteria are not met)
Reproductive toxicity	Not classified (B	ased on available data, the classification criteria are not met)
STOT-single exposure	Not classified (B	ased on available data, the classification criteria are not met)
STOT-repeated exposure	Not classified (B	ased on available data, the classification criteria are not met)
Aspiration hazard	Not classified (B	ased on available data, the classification criteria are not met)
Symptoms/Injuries After Inhalation		roduce cough, mucous secretions, shortness of breath, chest er symptoms indicative of an allergic/sensitization reaction.
Symptoms/Injuries After Skin Contact	May cause an a	llergic skin reaction.
Symptoms/Injuries After Eye Contact	May cause sligh	t irritation to eyes.
Symptoms/Injuries After Ingestion	Ingestion may c	ause adverse effects.
Chronic Symptoms	May produce ar	allergic reaction.

Ecology - general : Not classified. 12.2. Persistence and degradability 1002174 Well 5 Persistence and degradability Not established. 12.3. Bioaccumulative potential 1002174 Well 5 Bioaccumulative potential Not established. 12.4 Mability in soil Not established.

12.4. Mobility in soil

No additional information available

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Results of PBT and vPvB assessment 12.5.

1002174 Well 5

PBT: not relevant - no registration required

vPvB: not relevant - no registration required

12.6. Other adverse effects

Other information

recommendations

Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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

Ecology - waste materials

Product/Packaging disposal

: 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	ΙΑΤΑ	ADN	RID	
14.1. UN number					
Not regulated for transport					
14.2. UN proper shipping name					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard class(es)					
Not applicable	Not applicable	Not applicable Not applicable		Not applicable	
14.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental hazards					
Dangerous for the environment : No	Dangerous for the environment : No Marine pollutant : No	Dangerous for the environment : No	Dangerous for the environment : No	Dangerous for the environment : No	

Special precautions for user 14.6.

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	1002174 Well 5
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	

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-1azabicyclo[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

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

Resp. Sens. 1 Skin Sens. 1

Safety Data Sheet

H317 H334

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

Full Text of H- and EUH-statements:

EUH-statements:		
	Respiratory sensitisation, Category 1	
	Skin sensitisation, Category 1	

The Digital Genome Engineering Company

H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled. Indication of Changes No additional information available

Abbreviations and Acronyms

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

May cause an allergic skin reaction.

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.