

Box 1002449 Component SDS

REF 1002449
Onyx[®] Edit Competency Kit
Edit Competency DNA - E. coli

Consumable ID Number	Consumable Ref Number and Relevant Well
4	1002182 Well 1
11	1002172 Well 1

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

1002182

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 : 1002182

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

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.

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 (EC-No.) 200-578-6 (EC Index-No.) 603-002-00-5	60 - 80	Flam. Liq. 2, H225
Chloramphenicol	(CAS-No.) 56-75-7 (EC-No.) 200-287-4	0,1 - 1	Eye Dam. 1, H318 Carc. 1B, H350 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 (CO₂). 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, CO₂). 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.

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 ³)	1900 mg/m ³
Austria	MAK Daily average value (ppm)	1000 ppm
Austria	MAK Short time value [mg/m ³]	3800 mg/m ³
Austria	MAK Short time value [ppm]	2000 ppm
Belgium	Limit value [mg/m ³]	1907 mg/m ³
Belgium	Limit value [ppm]	1000 ppm
Bulgaria	OEL TWA (mg/m ³)	1000 mg/m ³

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

Ethyl alcohol (64-17-5)		
Norway	Grenseverdier (Korttidsverdi) (ppm)	625 ppm (value calculated)
Poland	NDS (mg/m ³)	1900 mg/m ³
Romania	OEL TWA (mg/m ³)	1900 mg/m ³
Romania	OEL TWA (ppm)	1000 ppm
Romania	OEL STEL (mg/m ³)	9500 mg/m ³
Romania	OEL STEL (ppm)	5000 ppm
Slovakia	NPHV (priemerná) (mg/m ³)	960 mg/m ³
Slovakia	NPHV (priemerná) (ppm)	500 ppm
Slovakia	NPHV (Hraničná) (mg/m ³)	1920 mg/m ³
Slovenia	OEL TWA (mg/m ³)	960 mg/m ³
Slovenia	OEL TWA (ppm)	500 ppm
Slovenia	OEL STEL (mg/m ³)	1920 mg/m ³
Slovenia	OEL STEL (ppm)	1000 ppm
Sweden	nivågränsvärde (NVG) (mg/m ³)	1000 mg/m ³
Sweden	nivågränsvärde (NVG) (ppm)	500 ppm
Sweden	kortidsvärde (KTV) (mg/m ³)	1900 mg/m ³
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 ³)	1 mg/m ³
Latvia	OEL TWA (mg/m ³)	1 mg/m ³

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/flame 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

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.

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

1002182	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

1002182	
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

1002182	
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

ADR	IMDG	IATA	ADN	RID
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

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	1002182 ; 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	1002182
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	1002182
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.	1002182 ; Ethyl alcohol

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

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

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

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 (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 (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 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, CO₂). 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 ³]	10 mg/m ³ (mist)
Croatia	GVI (granična vrijednost izloženosti) (mg/m ³)	10 mg/m ³

1,2,3-Propanetriol (56-81-5)		
France	VME [mg/m ³]	10 mg/m ³ (aerosol)
Germany	Occupational exposure limit value (mg/m ³)	200 mg/m ³ (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 ³)	10 mg/m ³
Spain	VLA-ED (mg/m ³)	10 mg/m ³ (mist)
Switzerland	KZGW (mg/m ³)	100 mg/m ³ (inhalable dust)
Switzerland	MAK (mg/m ³)	50 mg/m ³ (inhalable dust)
United Kingdom	WEL TWA (mg/m ³)	10 mg/m ³ (mist)
United Kingdom	WEL STEL (mg/m ³)	30 mg/m ³ (calculated-mist)
Czech Republic	Expoziční limity (PEL) (mg/m ³)	10 mg/m ³
Estonia	OEL TWA (mg/m ³)	10 mg/m ³
Finland	HTP-arvo (8h) (mg/m ³)	20 mg/m ³
Poland	NDS (mg/m ³)	10 mg/m ³ (inhalable fraction)
Slovakia	NPHV (priemerná) (mg/m ³)	11 mg/m ³
Slovenia	OEL TWA (mg/m ³)	200 mg/m ³ (inhalable fraction)
Slovenia	OEL STEL (mg/m ³)	400 mg/m ³ (inhalable fraction)
Portugal	OEL TWA (mg/m ³)	10 mg/m ³ (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)

1,2,3-Propanetriol (56-81-5)	
LD50 oral rat	12600 mg/kg
LD50 dermal rabbit	> 10 g/kg
LC50 Inhalation - Rat	> 570 mg/m ³ (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.

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

12.2. Persistence and degradability

1002172	
Persistence and degradability	Not established.

12.3. Bioaccumulative potential

1002172	
Bioaccumulative potential	Not established.
1,2,3-Propanetriol (56-81-5)	
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
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

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

1,2,3-Propanetriol (56-81-5)
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.