

A Sysmex Group Company

SAFETY DATA SHEET

Revision Number 1

This safety data sheet was created pursuant to the requirements of: The REACH etc. (Amendment etc.) (EU Exit) Regulations 2020 and The Chemicals (Health and Safety) and Genetically Modified Organisms (Contained Use) (Amendment etc.) (EU Exit) Regulations 2019 No. 720

SECTION 1: Identificat	ion of the substance/mixture and of the company/undertaking
1.1. Product identifier	
Product Code(s)	HA **** / HB **** / HI ****

Revision Date 17-Aug-2023

Product Name Hybridisation Solution

Synonyms

Issuing Date 17-Aug-2023

Pure substance/mixture Mixture

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

None known

None

Recommended use Laboratory chemicals For professional use only

Uses advised against

1.3. Details of the supplier of the safety data sheet

Supplier

Cytocell Ltd., Oxford Gene Technology 418 Cambridge Science Park, Milton Road, Cambridge CB4 0PZ, United Kingdom T: +44 (0)1223 294048 F: +44 (0)1223 294986 probes@cytocell.com http://www.ogt.com

 For further information, please contact

 E-mail address
 probes@cytocell.com

1.4. Emergency telephone number

Emergency telephone

+44 (0) 1223 294048 (Monday - Friday, 9am - 5pm)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Skin corrosion/irritation	Category 2 - (H315)
Serious eye damage/eye irritation	Category 2 - (H319)
Reproductive toxicity	Category 1B - (H360D)

2.2. Label elements

Contains Formamide



Signal word Danger

Hazard statements

H315 - Causes skin irritation.H319 - Causes serious eye irritation.H360D - May damage the unborn child.

Precautionary statements

P201 - Obtain special instructions before use.
P264 - Wash skin thoroughly after handling.
P280 - Wear protective gloves/protective clothing/eye protection/face protection.
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.
P501 - Dispose of contents/containers in accordance with local regulations.

2.3. Other hazards

The product does not contain any substance(s) classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.1 Substances

Not applicable

3.2 Mixtures

Chemical name	Weight-%	EC No (EU Index No)	UK REACH registration number	Classification according to GB CLP (SI 2020/1567 as amended)	Specific concentration limit (SCL)	M-Factor	M-Factor (long-term)
Formamide 75-12-7	<70	(616-052-00-8) 200-842-0	-	Repr. 1B (H360D)	-	-	-
Dextran sulfate sodium 9011-18-1	10 - <15	-	-	Skin Irrit. 2 (H315) Eye Irrit. 2 (H319) STOT SE 3 (H335)	-	-	-

Full text of H- and EUH-phrases: see section 16

Chemical name	CAS No.	SVHC candidates
Formamide	75-12-7	Х

SECTION 4: First aid measures

4.1. Description of first aid measures

General advice	Show this safety data sheet to the doctor in attendance.			
Inhalation	Remove to fresh air. Get medical attention immediately if symptoms occur. Remove person to fresh air and keep comfortable for breathing.			
Eye contact	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.			
Skin contact	Wash off immediately with soap and plenty of water for at least 15 minutes. Get medical attention if irritation develops and persists.			
Ingestion	Rinse mouth. Never give anything by mouth to an unconscious person. Do NOT induce vomiting. Call a doctor.			
Self-protection of the first aider	Avoid contact with skin, eyes or clothing. Wear personal protective clothing (see section 8).			
4.2. Most important symptoms and	effects, both acute and delayed			
Symptoms	May cause redness and tearing of the eyes. Burning sensation. Skin irritation.			
Effects of Exposure	Contains a known or suspected reproductive toxin. May damage the unborn child.			
4.3. Indication of any immediate medical attention and special treatment needed				
4.3. Indication of any immediate me	edical attention and special treatment needed			
4.3. Indication of any immediate me Note to doctors	Treat symptomatically.			
	Treat symptomatically.			
Note to doctors	Treat symptomatically.			
Note to doctors SECTION 5: Firefighting m	Treat symptomatically.			
Note to doctors SECTION 5: Firefighting m 5.1. Extinguishing media	Treat symptomatically.			
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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions	Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. See section 8 for more information. Avoid breathing vapours or mists. Do not touch or walk through spilled material.		
Other information	Refer to protective measures listed in Sections 7 and 8.		
For emergency responders	Use personal protection recommended in Section 8.		
6.2. Environmental precautions			
Environmental precautions	Prevent further leakage or spillage if safe to do so. Avoid release to the environment.		
6.3. Methods and material for conta	inment and cleaning up		
Methods for containment	Prevent further leakage or spillage if safe to do so. Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).		
Methods for cleaning up	Pick up and transfer to properly labelled containers. After cleaning, flush away traces with water. Wash thoroughly after handling.		
Prevention of secondary hazards	Clean contaminated objects and areas thoroughly observing environmental regulations.		
6.4. Reference to other sections			
Reference to other sections	See section 8 for more information. See section 13 for more information.		
SECTION 7: Handling and	storage		
7.1. Precautions for safe handling	-		
Advice on safe handling	Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Remove contaminated clothing and shoes. Take off contaminated clothing and wash it before reuse. Wear personal protective equipment. Wash hands thoroughly after handling.		
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.		
7.2. Conditions for safe storage, inc	luding any incompatibilities		
Storage Conditions	Store locked up. Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from Incompatible materials.		
7.3. Specific end use(s)			
Specific use(s)	The identified uses for this product are detailed in Section 1.2.		
Risk Management Methods (RMM)	The information required is contained in this Safety Data Sheet.		

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure Limits

Chemical name	United Kingdom
Formamide	TWA: 20 ppm
75-12-7	TWA: 37 mg/m ³
	STEL: 30 ppm
	STEL: 56 mg/m ³

Biological occupational exposure Imits This product, as supplied, does not contain any hazardous materials with biological limits established by the region specific regulatory bodies.

Derived No Effect Level (DNEL) - Workers

Chemical name	Oral	Dermal	Inhalation
Formamide 75-12-7		0.952 mg/kg bw/day [4] [6]	6.6 mg/m ³ [4] [6]
Sodium chloride 7647-14-5		295.52 mg/kg bw/day [4] [6] 295.52 mg/kg bw/day [4] [7]	2068.62 mg/m ³ [4] [6] 2068.62 mg/m ³ [4] [7]

Notes

[4]	Systemic health effects.
[6]	Long term.
[7]	Short term.

Derived No Effect Level (DNEL) - General Public

Chemical name	Oral	Dermal	Inhalation
Sodium chloride	126.65 mg/kg bw/day [4] [6]	126.65 mg/kg bw/day [4] [6]	443.28 mg/m ³ [4] [6]
7647-14-5	126.65 mg/kg bw/day [4] [7]	126.65 mg/kg bw/day [4] [7]	443.28 mg/m ³ [4] [7]

Notes

[4]	Systemic health effects.
[6]	Long term.
[7]	Short term.

Predicted No Effect Concentration (PNEC)

Chemical name	Freshwater	Freshwater (intermittent release)	Marine water	Marine water (intermittent release)	Air
Formamide 75-12-7	0.5 mg/L	5 mg/L	0.5 mg/L		
Sodium chloride 7647-14-5	5 mg/L				

Chemical name	Freshwater sediment	Marine sediment	Sewage treatment	Soil	Food chain
Formamide 75-12-7	1.26 mg/kg sediment dw		100 mg/L	0.151 mg/kg soil dw	
Sodium chloride 7647-14-5			500 mg/L	4.86 mg/kg soil dw	

8.2. Exposure controls

Engineering controls	Showers Eyewash stations Ventilation systems.
Personal protective equipment	
Eye/face protection	If splashes are likely to occur, wear safety glasses with side-shields. Eye protection must conform to standard EN 166.
Hand protection	Wear suitable gloves. Impervious gloves. Gloves must conform to standard EN 374. Ensure that the breakthrough time of the glove material is not exceeded. Refer to glove supplier for information on breakthrough time for specific gloves.
Skin and body protection	Wear suitable protective clothing. Long sleeved clothing.
Respiratory protection	No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.
General hygiene considerations	Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Wear suitable gloves and eye/face protection. Avoid contact with skin, eyes or clothing.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance Physical state Colour Odour Odour threshold	Liquid Varies Odourless No information available	
<u>Property</u> Melting point / freezing point Initial boiling point and boiling range	<u>Values</u>	Remarks • Method No data available No data available
Flammability		Not applicable
Flammability Limit in Air		
Upper flammability or explosive limits		Not applicable
Lower flammability or explosive limits		Not applicable
Flash point	154 °C	
Autoignition temperature		No data available
Decomposition temperature		No data available
рН		Not applicable
pH (as aqueous solution)		No data available
Kinematic viscosity		No data available
Dynamic viscosity		No data available
Water solubility Solubility(ies)		No data available No data available
Partition coefficient		No data available
Vapour pressure		No data available
Relative density		No data available
Bulk density		No data available
Liquid Density		No data available

Relative vapour density Particle Characteristics Particle Size Distribution No data available No data available No data available No data available Particle Size Distribution No information available. No information available. No information available. Sp. Other information				
Particle Size Distribution No data available Explosive properties Oxidising properties No information available. No information available. 9.2. Other Information			No data available	
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Hazardous decomposition products Carbon oxides, Nitrogen oxides (NOx), Silicon oxides, Hydrogen cyanide, Ammonia. SECTION 11: Toxicological information 11.1. Toxicological information	Incompatible materials	Strong acids, Strong bases, Strong oxidising agents, Metals, Sulphur trioxide.		
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11.1. Toxicological information	Hazardous decomposition products	s Carbon oxides, Nitrogen oxides (NOx), Silicon oxides, Hydrogen cyanide, Ammonia.	
	SECTION 11: Toxicologica	l information		
Information on likely routes of exposure	11.1. Toxicological information			
	Information on likely routes of expo	osure		

Product Information

Inhalation	Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.
Eye contact	Specific test data for the substance or mixture is not available. Causes serious eye irritation. (based on components). May cause redness, itching, and pain.
Skin contact	Specific test data for the substance or mixture is not available. Causes skin irritation.

	(based on components).
Ingestion	Specific test data for the substance or mixture is not available. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhoea.
Symptoms related to the phy	sical, chemical and toxicological characteristics

Sy

Symptoms	Redness. May cause redness and tearing of the eyes. Skin irritation.
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Acute toxicity .

Numerical measures of toxicity Based on available data, the classification criteria are not met.

Component Information

Chemical name	Oral LD50	Dermal LD50	Inhalation LC50
Formamide	= 5577 mg/kg (Rat)	= 6 g/kg (Rabbit)	> 21 mg/L (Rat)4 h
Dextran sulfate sodium	= 20600 mg/kg (Rat)	-	-

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation	Classification based on data avai	lable for ingredients. Causes skin irritation.		
Serious eye damage/eye irritation	Classification based on data avai	lable for ingredients. Causes serious eye irritation.		
Respiratory or skin sensitisation	Based on available data, the clas	sification criteria are not met.		
Germ cell mutagenicity	Based on available data, the clas	sification criteria are not met.		
Carcinogenicity	Based on available data, the clas	sification criteria are not met.		
Reproductive toxicity	Classification based on data available for ingredients. May damage fertility or the unborn child. May damage the unborn child.			
The table below indicates ingredients above the cut-off threshold considered as relevant which are listed as reproductive toxins.				
Chemical name Formamide		United Kingdom Repr. 1B		
STOT - single exposure	Based on available data, the clas	sification criteria are not met.		
STOT - repeated exposure	Based on available data, the clas	sification criteria are not met.		
Aspiration hazard	Based on available data, the classification criteria are not met.			
Other adverse effects	No information available.			

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity

Not considered to be harmful to aquatic life.

Chemical name	Algae/aquatic plants	Fish	Toxicity to microorganisms	Crustacea
Formamide	EC50: >500mg/L (72h, Desmodesmus subspicatus) EC50: >500mg/L (96h, Desmodesmus subspicatus)	LC50: =9135mg/L (96h, Brachydanio rerio)	-	EC50: >500mg/L (48h, Daphnia magna)

12.2. Persistence and degradability

Persistence and degradability No information available.

12.3. Bioaccumulative potential

Bioaccumulation

Component Information

Chemical name	Partition coefficient
Formamide	-0.82

12.4. Mobility in soil

Mobility in soil

No information available.

12.5. Results of PBT and vPvB assessment

PBT and vPvB assessment	The product does not contain any substance(s) classified as PBT or vPvB.	

Chemical name	PBT and vPvB assessment
Formamide	The substance is not PBT / vPvB

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste from residues/unused products	Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.
Contaminated packaging	Do not reuse empty containers.

SECTION 14: Transport information

IMDG		Not regulated
14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated

14.4	· · · · · · · · · · · · · · · · · · ·	Not applicable
14.5 14.6		Not applicable
-	pecial Provisions	None
14.7	Maritime transport in bulk	No information available
accor	ding to IMO instruments	
RID		Not regulated
14.1 14.2	UN number	Not regulated Not regulated
14.2	UN proper shipping name Transport hazard class(es)	Not regulated
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special Precautions for Users	
S	pecial Provisions	None
<u>ADR</u>	_	Not regulated
14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not applicable
14.5 14.6	Environmental hazards	Not applicable
	Special Precautions for Users pecial Provisions	None
U		
IATA	_	Not regulated
14.1	UN number or ID number	Not regulated
14.2	UN proper shipping name	Not regulated
14.3	Transport hazard class(es)	Not regulated
14.4	Packing group	Not applicable
14.5	Environmental hazards	Not applicable
14.6	Special Precautions for Users	Nese
	pecial Provisions	None
N	ote:	None

SECTION 15: Regulatory information

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

National regulations

Authorisations and/or restrictions on use:

This product contains one or more substances subject to restriction (UK REACH - Annex XVII).

Chemical name	Restricted substance per REACH	Substance subject to authorisation per
	Annex XVII	REACH Annex XIV
Formamide - 75-12-7	Use restricted. See item 30.	-
	Restricted Reproductive Toxin 1B	

Persistent Organic Pollutants

Not applicable

Export Notification requirements

Not applicable

Named dangerous substances per COMAH (SI 2015/483 as amended) Not applicable

The Ozone-Depleting Substances Regulations 2015 Not applicable The Biocidal Products Regulations 2001 (as amended)

Not applicable

The Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (as amended) Not applicable

Poisons Act 1972 (Explosive Precursors) Regulations (as amended) Not applicable

International Inventories

Contact supplier for inventory compliance status

15.2. Chemical safety assessment

Chemical Safety Report No information available

SECTION 16: Other information

Key or legend to abbreviations and acronyms used in the safety data sheet

Full text of H-Statements referred to under section 3

H360D - May damage the unborn child

Legend

SVHC: Substances of Very High Concern for Authorisation:

Legend	Section 8: Exposure controls/personal protect	ion	
TWA	TWA (time-weighted average)	STEL	STEL (Short Term Exposure Limit)
Ceiling	Maximum limit value	*	Skin designation
+	Sensitisers	SCBA	Self-contained breathing apparatus

Classification procedure	
Classification according to Regulation (EC) No. 1272/2008 [CLP]	Method Used
Acute oral toxicity	Calculation method
Acute dermal toxicity	Calculation method
Acute inhalation toxicity - gas	Calculation method
Acute inhalation toxicity - vapour	Calculation method
Acute inhalation toxicity - dust/mist	Calculation method
Skin corrosion/irritation	Calculation method
Serious eye damage/eye irritation	Calculation method
Respiratory sensitisation	Calculation method
Skin sensitisation	Calculation method
Mutagenicity	Calculation method
Carcinogenicity	Calculation method
STOT - single exposure	Calculation method
STOT - repeated exposure	Calculation method
Acute aquatic toxicity	Calculation method
Chronic aquatic toxicity	Calculation method
Aspiration hazard	Calculation method
Ozone	Calculation method

Key literature references and sources for data used to compile the SDS

Agency for Toxic Substances and Disease Registry (ATSDR)

U.S. Environmental Protection Agency ChemView Database

European Food Safety Authority (EFSA) European Chemicals Agency (ECHA) Committee for Risk Assessment (ECHA_RAC) European Chemicals Agency (ECHA) (ECHA_API) EPA (Environmental Protection Agency) Acute Exposure Guideline Level(s) (AEGL(s)) U.S. Environmental Protection Agency Federal Insecticide, Fungicide, and Rodenticide Act U.S. Environmental Protection Agency High Production Volume Chemicals Food Research Journal Hazardous Substance Database International Uniform Chemical Information Database (IUCLID) National Institute of Technology and Evaluation (NITE) Australian National Industrial Chemicals Notification and Assessment Scheme (NICNAS) NIOSH (National Institute for Occupational Safety and Health) National Library of Medicine's ChemID Plus (NLM CIP) National Library of Medicine's PubMed database (NLM PUBMED) National Toxicology Program (NTP) New Zealand's Chemical Classification and Information Database (CCID) Organisation for Economic Co-operation and Development Environment, Health, and Safety Publications Organisation for Economic Co-operation and Development High Production Volume Chemicals Programme Organisation for Economic Co-operation and Development Screening Information Data Set World Health Organization **Issuing Date** 17-Aug-2023 **Revision Date** 17-Aug-2023

Revision Note Initial Release

This material safety data sheet complies with the requirements of UK REACH

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work

Disclaimer

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End of Safety Data Sheet