



Hybridisation Solution

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

SECTION 1: Identification	
1.1. Identification	
Product form	: Mixture
Name	: Hybridisation Solution
Product code	: HA **** / HB **** / HI ****
1.2. Relevant identified uses of the subs	tance or mixture and uses advised against
Use of the substance/mixture	: Laboratory chemicals
1.3. Details of the supplier of the safety	data sheet
Cytocell Ltd,Oxford Gene Technology, 418 Car Cambridge, CB4 0PZ. United Kingdom T: +44 (0) 1223 294048 F: +44 (0) 1223 29498 probes@cytocell.com www.cytocell.com	-
1.4. Emergency telephone number	
No additional information available	
SECTION 2: Hazard(s) identification	
2.1. Classification of the substance or m	ixture
GHS-US classification	
Skin corrosion/irritation Category 2 Serious eye damage/eye irritation Category 2A Reproductive toxicity Category 1B	H315 H319 H360
Full text of H statements : see section 16	
2.2. Label elements	
GHS-US labeling	
Hazard pictograms (GHS-US)	
	GHS07 GHS08
Signal word (GHS-US)	: Danger
Hazard statements (GHS-US)	: H315 - Causes skin irritation H319 - Causes serious eye irritation H360 - May damage fertility or the unborn child
Precautionary statements (GHS-US)	 P202 - Do not handle until all safety precautions have been read and understood P280 - Wear eye protection, protective clothing, protective gloves P302+P352 - If on skin: Wash with plenty of soap and 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 P362+P364 - Take off contaminated clothing and wash it before reuse P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation
2.3. Other hazards	
No additional information available	

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/Information on ingredients

3.1. Substance

Not applicable

3.2. **Mixture**





Name	Product identifier	%	GHS-US classification
formamide	(CAS No) 75-12-7	>= 50	Repr. 1B, H360
dextran sulfate, sodium salt	(CAS No) 9011-18-1	< 15	Skin Irrit. 2, H315 Eye Irrit. 2A, H319 STOT SE 3, H335

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

SECTION 4: First aid measures	
4.1. Description of first aid measures	
First-aid measures general	: If exposed or concerned: Get medical advice/attention.
First-aid measures after inhalation	 Remove person to fresh air and keep comfortable for breathing. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention. Wash sl
First-aid measures after skin contact	with plenty of water.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Call a poison center/doctor/physician if you feel unwell.
4.2. Most important symptoms and eff	ects, both acute and delayed
Symptoms/injuries after skin contact	: Irritation.
Symptoms/injuries after eye contact	: Eye irritation.
4.3. Indication of any immediate medie	cal attention and special treatment needed
Treat symptomatically.	
SECTION 5: Firefighting measures	
5.1. Extinguishing media	
Suitable extinguishing media	: Water spray. Dry powder. Foam. Carbon dioxide.
5.2. Special hazards arising from the s	substance or mixture
Reactivity	: The product is non-reactive under normal conditions of use, storage and transport.
5.3. Advice for firefighters	
Protection during firefighting	: Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.
SECTION 6: Accidental release me	asures
6.1. Personal precautions, protective of	equipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Only qualified personnel equipped with suitable protective equipment may intervene.
6.1.2. For emergency responders	
Protective equipment	: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".
6.2. Environmental precautions	
Avoid release to the environment. Notify autho	prities if product enters sewers or public waters.
6.3. Methods and material for contain	ment and cleaning up
Methods for cleaning up	 Take up liquid spill into absorbent material. Notify authorities if product enters sewers or publi waters.
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
For further information refer to section 13.	
SECTION 7: Handling and storage	
7.1. Precautions for safe handling	
Precautions for safe handling	: Ensure good ventilation of the work station. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin an eyes. Wear personal protective equipment.
Hygiene measures	: Separate working clothes from town clothes. Launder separately. Wash contaminated clothin before reuse. Do not eat, drink or smoke when using this product. Always wash hands after handling the product.
7.2. Conditions for safe storage, inclu	ding any incompatibilities
Storage conditions	: Store locked up. Store in a well-ventilated place. Keep cool.
SECTION 8: Exposure controls/per	rsonal protection
8.1. Control parameters	

8.1. Control parameters





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formamide (75-12-7)		
ACGIH A	CGIH TWA (ppm)	10 ppm (Formamide; USA; Time-weighted average exposure limit 8 h; TLV - Adopted Value)
Not applicable		·
dextran sulfate, sodium salt (90	11-18-1)	
Not applicable		
8.2. Exposure controls		
Appropriate engineering controls	: Ensure good ventilation	of the work station
Hand protection	: Protective gloves.	
Eye protection	: Safety glasses.	
Skin and body protection	: Wear suitable protective	e clothing
Respiratory protection	: Wear respiratory protect	-
Environmental exposure controls	: Avoid release to the env	
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SECTION 9: Physical and cl		
	sical and chemical properties	
Physical state	: Liquid	
Appearance	: Liquid.	
Color		r more component(s) which have the following colour(s): hite to off-white Colourless to white White
Odor	: Odorless	
Odor threshold	: No data available	
рН	: No data available	
Melting point	: Not applicable	
Freezing point	: No data available	
Boiling point	: No data available	
Flash point	: 154 °C	
Relative evaporation rate (butyl ace	tate=1) : No data available	
Flammability (solid, gas)	: Not applicable.	
Vapor pressure	: No data available	
Relative vapor density at 20 °C	: No data available	
Relative density	: No data available	
Solubility	: No data available	
Log Pow	: No data available	
Auto-ignition temperature	: No data available	
Decomposition temperature	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: No data available	
Explosion limits	: No data available	
Explosive properties	: No data available	
Oxidizing properties	: No data available	
9.2. Other information		

9.2. Other information

No additional information available

SECTION 10: Stabilit	y and reactivity
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10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

No additional information available





Hazardous decomposition products 10.6.

Under normal conditions of storage and use, hazardous decomposition products should not be produced. **SECTION 11: Toxicological information** 11.1. Information on toxicological effects Acute toxicity : Not classified formamide (75-12-7) LD50 oral rat > 5000 mg/kg (Rat) LD50 dermal rat > 5000 mg/kg (Rat) LD50 dermal rabbit > 5000 mg/kg (Rabbit) dextran sulfate, sodium salt (9011-18-1) LD50 oral rat 20600 mg/kg (Rat) 20600,000 mg/kg body weight ATE US (oral) Skin corrosion/irritation : Causes skin irritation. Serious eye damage/irritation Causes serious eye irritation. ÷ Respiratory or skin sensitization ÷ Not classified Germ cell mutagenicity ÷ Not classified : Not classified Carcinogenicity Reproductive toxicity : May damage fertility or the unborn child. Specific target organ toxicity (single exposure) ÷ Not classified Specific target organ toxicity (repeated : Not classified exposure) Aspiration hazard : Not classified Symptoms/injuries after skin contact : Irritation. Symptoms/injuries after eye contact : Eye irritation. SECTION 12: Ecological information

12.1. Toxicity

Ecology - general

The product is not considered harmful to aquatic organisms or to cause long-term adverse effects in the environment.

formamide (75-12-7)		
	LC50 fish 1	4600 mg/l (LC50; 96 h; Leuciscus idus)
	EC50 Daphnia 1	> 500 mg/l (EC50; 48 h)
	Threshold limit algae 1	> 500 mg/l (EC50; 72 h)

12.2. Persistence and degradability

formamide (75-12-7)			
Persistence and degradability	Inherently biodegradable. Biodegradable in soil. Photodegradation in the air.		
BOD (% of ThOD)	0		
dextran sulfate, sodium salt (9011-18-1)			
Persistence and degradability	Biodegradability in water: no data available.		

12.3. **Bioaccumulative potential**

formamide (75-12-7)			
Log Pow	-1,60,82		
Bioaccumulative potential	Bioaccumulation: Not applicable.		
dextran sulfate, sodium salt (9011-18-1)			
Bioaccumulative potential	Bioaccumulation: No data available.		

12.4. Mobility in soil

formamide (75-12-7)	
Surface tension	0,058 N/m

Effect on the global warming : No known effects from this product.	12.5. Other adve	rse effects						
	Effect on the global	warming	:	No known	effects from	this produc	xt.	

GWPmix comment : No known effects from this product.

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SECTION 13: Disposal considerations

13.1.	Waste treatment methods	
Waste	treatment methods	

Waste disposal recommendations

Dispose of contents/container in accordance with licensed collector's sorting instructions.Avoid release to the environment.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT Not regulated

TDG

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

formamide (75-12-7)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
dextran sulfate, sodium salt (9011-18-1)			
Listed on the United States TSCA (Toxic Substances Control Act) inventory			
EPA TSCA Regulatory Flag	XU - XU - indicates a substance exempt from reporting under the Inventory Update Reporting Rule, i.e, Partial Updating of the TSCA Inventory Data Base Production and Site Reports (40 CFR 710(C))		

15.2. International regulations

CANADA

No additional information available

EU-Regulations

No additional information available

National regulations

No additional information available

15.3. US State regulations

No additional information available

SECTI	ON 16: Other information	
Revision date		: 01/22/2020
Full tex	t of H-phrases:	
	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H335	May cause respiratory irritation
	H360	May damage fertility or the unborn child
NFPA health hazard		: 2 - Intense or continued exposure could cause temporary incapacitation or possible residual injury unless prompt medical attention is given.
NFPA fire hazard		: 1 - Must be preheated before ignition can occur.
NFPA reactivity :		: 0 - Normally stable, even under fire exposure conditions, and are not reactive with water.



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HMIS III Rating	
Health	: 2 Moderate Hazard - Temporary or minor injury may occur
	* - Chronic (long-term) health effects may result from repeated overexposure
Flammability	 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical	: 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.

SDS US (GHS HazCom 2012)

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.