Parting date 10/23/2014 Cancer to OSM HCS Reviewed on 09/09/2014 Cancer of Standards I rade name: Suspect 1 DMA_Lyophilized Fraining date 10/23/2014 Trade name: Suspect 1 DMA_Lyophilized Index na	Ingestion Skin • Other haz • PBT: Not a • vPVB: Not	Classification according to Directive 67/548/EEC or Directive 1999/45/EC	· Chemical · Description · Description	Harmful if swallowed. T7-86-1 Tris(hydroxymethyl)aminomethane Triation to avec and skin	of 7791-14-5 sodium chloride 7791-18-6 magnesium chloride hexahydrate 27555-41-9 (R*,R*)-(±)-1,4-dimercaptobutane-2,3-diol	and or literature information. Label elements Label ing according to EU guidelines: The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials (Cont. on page 2) (Cont. on page
ce or mixture Skin in initiation. Other hazards in initiation. Results of PBT and vPvB assessment incus eye initiation. PBT: Not applicable. ind skin. Chemical characterization: Mixtures id. PBT: Not applicable. id. Tr. 86-1 Tis(hydroxymethyl)aminomelhane Description. Mixtures Status components: .1sting of dangerous and non-hazardous components: Ising of dangerous and non-hazardous components: .1sting of Tis(hydroxymethyl)aminomelhane 1765-11 [Tis(hydroxymethyl)aminomelhane 77-86-1 [Tis(hydroxymethyl)aminomelhane 17907-49-2 [NA from verious sources 9007-49-2 [DNA from verious sources 2016/	EC or Directive 1999/45/EC • • • • • • • • • • • • • • • • • • •	of Chemical Characterization: Mixtures Description: Mixture of the substances listed below with non-hazardous additions. Listing of dangerous and non-hazardous components: 77-86-1 Tris(hydroxymethy)aminomethane 7647-14-5 sodium choride hoxahydrate 77917-18-6 sodium choride hexahydrate 9007-49-2 DNA from various sources	of 77-86-1 Tris(hydroxymethyl)aminomethane 77-86-1 Tris(hydroxymethyl)aminomethane 7647-14-5 sodium chloride 7791-18-6 magnesium chloride hexahydrate 27565-41-9 (R*, K*)-(±)-1,4-dimercaptobufane-2,3-diol 9007-49-2 DNA from various sources	g particular hazards for human and environment: g particular hazards for human and environment: abelied due to the calculation procedure of the "General Classification guideline for preparations of d version. d version: d version		Ked in accordance with EU Directives / Ordinance on Hazardous Materials (Cont. on page 2)
ce or mixture Skin Other hazerts initiation. PBT: Not applicable. investive 67548/EEC or Directive 1989/45/EC Other hazerts ind skin. Scomposition/information on ingredients id Scomposition/information on ingredients id Chemical characterization: Mixtures id Description. Mixture of the substances listed below with non-hazardous additons. id Listing of dangerous and non-hazardous components: id T77-86-11 d skin. Scomposition/information of ingredients id 1/15/1/10/oumptione/hane id 1/15/1/11/0/oumptione/hane id 1/15/1/11/0/00/11/11/0/00/11/11/0/00/11/11/0/00/11/11	EC or Directive 1999/45/EC S Composition/information on Ingredients Chemical characterization: Mixtures Chemical characterization: Mixtures Instrument: ation procedure of the "Ceneral Classification guideline for preparations of ation procedure of the EU-lists, and expanded upon from company and literature A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A 29CFR 1910.1200 and 1910.1030, and is expanded upon from company A dditional information For each and an an and an 	Chemical Characterization: Mixtures Description: Mixture of the substances listed below with non-hazardous additions. Listing of dangerous and non-hazardous components: T7-86-1 Tris(hydroxymethyl)aminomethane T647-14-5 sodium chloride T647-14-5 sodium chloride hexahydrate T647-14-5 magnesum chloride hexahydrate 27565-41-9 (R ⁺ , R ⁺)-(1)-(1, 4-dimercaptobulane-2, 3-dici 9007-49-2 DNA from various sources Additional information For the working of the listed risk phrases refer to section 15. Additional information For the working of the listed risk phrases refer to section 15.	. Listing or dangerous and non-nazardous components: 77-86-1 Tris(hydroxymethyl)aminomethane 77-86-1 Tris(hydroxymethyl)aminomethane 7791-18-6 magnesium chloride 7791-18-6 magnesium chloride 27565-41-9 (R*, R*)+(±)-1,4-dimecaptobutane-2,3-diol 9007-49-2 DNA from various sources . Additional information For the wording of the listed risk phrases refer to section 15.	of 7797-18-6 is socium choride hexahydrate 7797-18-6 (R ⁻ ,R ⁻)-(t)-(t)-(t)-(t)-(t)-(t)-(t)-(t)-(t)-(t	2 3 	

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Safety Data Sheet		Safety Data Sheet
Printing date 10/23/2014 Reviewed on 09/09/2014	Printing date 10/23/2014	acc. to USHA HUS Reviewed on 09/09/2014
Trade name: Suspect 1 DNA, Lyophilized	Trade name: Suspect 1 DNA, Lyophilized	εđ
After eye contact Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor. After swallowing immediately call a doctor. Most important symptoms and effects, both acute and delayed No further relevant information available. Indication of any immediate medical attention and special treatment needed No further relevant information available.	- Exposure controls - Personal protective equipment - General protective and hyglenic measures Keep awar from foodstrifts, beveraces and feed	seard feed
5 Fire-fighting measures	Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Avoid contact with the eyes and skin.	ontaminated clothing re end of work.
 Extinguishing media Suitable extinguishing agents CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam. 	 Protection of hands: Protective gloves. Material of gloves Synthetic gloves Penetration time of glove material The exact break through time has to be to be 	Protection of hands: Protective gloves. Material of gloves Synthetic gloves Penetration time of glove material The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
 Special hazards arising from the substance or mixture No further relevant information available. Advice for firefighters Protective equipment: Wear self-contained respiratory protective device. 	Eye protection: Safety glasses Tightly sealed goggles.	
6 Accidental release measures	9 Physical and chemical properties	orties
 Personal precautions, protective equipment and emergency procedures Wear protective clothing. Environmental precautions: No special measures required. Methods and material for containment and cleaning un: Dispose contaminated material as waste according to item 13 	 Information on basic physical and chamical properties General information 	1 chemical properties
Reference to other sections See Section 7 for information on safe handling	- Appearance: Form:	Solid
See Section 13 for disposal information.	• Odor: • Odour threshold:	Odorless Not determined.
7 Handling and storage	. pH-value:	Not applicable.
 Precautions for safe handling No special precautions are necessary if used correctly. Information about protection against explosions and fires: No special measures required. 	Melting point/Melting range: Boiling point/Boiling range:	undetermined undetermined
Conditions for safe storage, including any incompatibilities	Flash point:	Not applicable
 Storage Reoutirements to be met by storerooms and receptacles: According to product specification 	Flammability (solid, gaseous)	Not determined.
 Information about storage in one common storage facility: Not required. Further information about storage conditions: Keep receptacle tightly sealed. 	Decomposition femperature:	Not determined
· Specific end use(s) No further relevant information available.	· Auto igniting:	Product is not selfigniting.
	· Danger of explosion:	Product does not present an explosion hazard.
• Additional information about design of technical systems: No further data; see item 7.	- Explosion limits: Lower: Upper:	Not determined. Not determined.
 Control parameters Components with limit values that require monitoring at the workplace; 	· Vapor pressure:	Not applicable.
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace. • Additional information: The lists that were valid during the creation were used as basis. (Cont. on page 4)	 Density: Relative density Yapour density Evaporation rate 	Not determined Not determined Not applicable Not applicable
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Electrony Fage 58 Safety Data Sheet acc. to OSHA HCS Reviewed on 09/09/2014 Hirzed (Const. of page 50) Fully miscible (Const. of page 50) Fully miscible (Const. of page 50) Fully miscible (Const. of page 50) Not applicable. (Const. of page 50) Not applicable. (Const. of page 50) Not applicable. Frage 50) Not applicable. Frage 50) Not applicable. Frage 50) Not urfter relevant information available. Torticity No dangerous reactions known PBT:Not algo 50) Ber No dangerous reactions known Epicerum Waste tree New 1 Waste tree Not approved 6000000000000000000000000000000000000	Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications. FRDISposed considerations Possibility of hazardous reactions No dangerous reactions known Conditions to avoid No further relevant information available. Conditions to avoid No further relevant information available. Waste treatment methods Hazardous decomposition products: No dangerous decomposition products known Waste treatment methods Hazardous decomposition products: No dangerous decomposition products known Mast not be disposed of together with household garbage. Do not allow product to reach sewage system.	14 Toxicological Information • Uncleaned packagings: Information on toxicological effects • Recommendation: Disposal must be made according to official regulations. • Acute toxicity: • Recommendation: Disposal must be made according to official regulations.	LD/LC50 values for hazardous components per OSHA criteria: 77-86-1 Tris(hydroxymethyl)aminomethane Constitution Constitution VIN-Number	Primary Irritant effect: On the skin. Irritant to skin and mucous membranes. ON Proper shipping name ON ADR ADN IMAG ATA Void	Transport hazard class(es) • DOT. ADR. ADN. IMDG. IATA	lowing dangers according to the calculation method of the General EU Classification Guidelines in the latest version:	Carcinogenic categories	· Marine pollutant:	arch on Cancer)	to Annex II of MARPOL73/78	arch on Cancer) . Marine pollutant: . Special precautions for user . Special precautions for user . Transport in bulk according to Annex II of MARPOL/3/78 and the IBC Code and the IBC Code
Fully missible Iterate name: Suspect 1 DMA, Lyophilized Fully missible Iterate name: Suspect 1 DMA, Lyophilized Not determined Status Not determined Status 0.0 % Status Not determined Status 0.0 % Status Not determined Status 0.0 % Status 0.1 % Status 0.2 % Status 0.2 % Status 0.3 % Status 0.4 % Status 0.4 % Status 0.5 % Status 0.6 % Status		Fects	· UN-Numbe	UN proper shipping name	Information: DOT. ADR. ADN. IMDG IATA	iowing dangers according to the calculation method of the General EU Classification Guidelines in the latest version: - Class - Class - Class - Packing group - DOT, ADR, IMDG, IATA	cy for Research on Cancer) · Environmental hazards: · Marine pollutant:	· Special precautions for user	Transport in bulk according to Annex II of MARPOL13/78 and the IBC Code	OSHA-Ca (Occupational Safety & Health Administration) None of the ingredients is listed	(Contd. on page 6)

 Diagnostic Group, Environmental Health and Safety, 4000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 724-7000 Date of preparation / last revision 10/23/2014 / - Abbreviations and acronyms: ADF: Accord europeen suri is transport dos marchandises dangereuses par Route (European Agreement concerning the International Carriege of INDF: International Key Read) DOT: US Department of Transportation Accelet: American Contenso of the Commercial Industrial Hygienists EURCS: European Inventory of Existing Commercial Chemical Substances EUNCS: European List of Notified Chemical Substances (Contt. on page 8) 	 Cheer information This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. Department issuing SDS: Environmental Health and Safety. Contact: Life Science Group, Environmental Health and Safety, 2000 Alfred Nobel Drive, Hercules, California, 94547: 1(510) 741-1000 	Carcin years Carcin caregories Carcin years CPA (Environmental Protection Agency) None of the ingredients is listed. TLV (Threshold Limit Value established by ACGIH) None of the ingredients is listed. MAK (German Maximum Workplace Concentration) None of the ingredients is listed. Othermical safety assessment: A Chemical Safety Assessment has not been carried out.	 Safety, health and environmental regulations/legislation specific for the substance or mixture SARA (Superfund Amendents and Reauthorization Act of 1966 - USA) Section 302/304 (40CFR355.30 / 40CFR355.40): None of the ingredients is listed. Section 313 (40CFR372.65): None of the ingredients is listed. TSCA (Toxic Substances Control Act): T7-86-1 Tris(hydroxymethy)laminomethane 27565-41-9 (R*,R*)-(1)-1,4-dimercapicbulane-2,3-diol 	(Cont. of page 6) UN "Model Regulation": (Cont. of page 6) (5 Regulatory information	Trade name: Suspect 1 DNA; Lyophilized	EID FIAD Safety Data Sheet acc. to OSHA HCS Reviewed on 09/09/2014
· ·				CAS: Chemical Abstracts Service (division of the American Chemical Society) (Cont.t. of page 7) LCSO: Leihal concentration, 60 percent LDSO: Leihal dose, 50 percent Skin Int. 2: Sun corrosion/Intation, Hazard Category 2 Erye Int. 2A: Services per camagereye intration, Hazard Category 2A • * Data compared to the previous version altered.	DNA, Lyophilized	Page 8/8 Safety Data Sheet acc. to OSHA HCS Feviewed on 09/09/2014