SECTION 1 - IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

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Product identifier DRI® TECHNOLOGY

Synonyms

0017 DRI® Amphetamine Assay (100 mL)
0018 DRI® Amphetamine Assay (500 mL)
10014585 Indiko DRI® Amphetamine Assay (3 x 18 mL)
0225 DRI® Barbituate Assay (100 mL)
0226 DRI® Barbituate Assay (500 mL)
10015648 Indiko DRI® Barbituate Assay (3 x 18 mL)
0039 DRI® Benzodiazepine Assay (100 mL)
0040 DRI® Benzodiazepine Assay (500 mL)
10015644 Indiko DRI® Benzodiazepine Assay (3 x 18 mL)
0055 DRI® Cocaine Assay (100 mL)
0056 DRI® Cocaine Assay (500 mL)
10014593 Indiko DRI® Cocaine Assay (3 x 18 mL)
0394 DRI® Cotinine Assay (100 mL)
0395 DRI® Cotinine Assay (500 mL)
10018516 Indiko DRI® Cotinine Assay (3 x 18 mL)
100075 DRI® Ecstasy Assay (100 mL)
100076 DRI® Ecstasy Assay (500 mL)
10014681 DRI® Ecstasy Assay (3 x 18 mL)
0037 DRI® Ethyl Alcohol Assay (100 mL)
0038 DRI® Ethyl Alcohol Assay (500 mL)
10016397 Indiko DRI® Ethyl Alcohol Assay (3 x 18 mL)
10011297 DRI® Ethyl Glucuronide Assay (68 mL)
10011226 DRI® Ethyl Glucuronide Assay (500 mL)
10015626 Indiko DRI® Ethyl Glucuronide Assay (3 x 18 mL)
0596 DRI®Methadone Enzyme Immunoassay (100 mL)
0597 DRI®Methadone Enzyme Immunoassay (500 mL)
10016403 Indiko DRI®Methadone Enzyme Immunoassay (3 x 18mL)
100115 DRI® Methadone Metabolite Assay (100 mL)
100116 DRI® Methadone Metabolite Assay (500 mL)
10018522 Indiko DRI ® Methadone Metabolite Assay (3 x 18 mL)
0135 DRI® Opiate Assay (100 mL)
0136 DRI® Opiate Assay (500 mL)
10014601 Indiko DRI® Opiate Assay (3 x 18 mL)
100248 DRI® Oxycodone Assay (68 mL)
100249 DRI® Oxycodone Assay (500 mL)
10015632 Indiko DRI® Oxycodone Assay (3 x 18 mL)
0160 DRI® Phencyclidine (PCP) Assay (100 mL)
0161 DRI® Phencyclidine (PCP) Assay (500 mL)
10014673 Indiko DRI® Phencyclidine (PCP) Assay (3 x 18 mL)
0432 DRI® Propoxyphene Assay (100 mL)
0433 DRI® Propoxyphene Assay (500 mL)
10018510 Indiko DRI® Propoxyphene Assay (3 x 18 mL)
0185 DRI® THC (Cannabinoid) Assay (100 mL)
0186 DRI® THC (Cannabinoid) Assay (500 mL)
10014665 Indiko DRI® THC (Cannabinoid) Assay (3 x 18 mL)

Trade names	DRI® Amphetamines Assay, DRI® Barbituate Assay, DRI® Benzodiazepine Assay, DRI® Cocaine Assay, DRI® Cotinine Assay, DRI® Ecstasy Assay, DRI® Ethyl Alcohol Assay, DRI® Ethyl Glucuronide (EtG) Assay, DRI® Methadone Enzyme Immuoassay, DRI® Methadone Metabolite Assay, DRI® Opiate Assay, DRI® Oxycodone Assay, DRI® Phencyclidine Assay, DRI® Propoxyphene Assay, DRI® THC (Cannabinoid) Assay
Chemical family	Mixture
Relevant identified uses of the substance or mixture and uses advised against	*In vitro* Diagnostic Kit.
Note	The pharmacological, toxicological, and ecological properties of this product/ mixture have not been fully characterized. This data sheet will be updated as more data become available.
Issue Date	10 June 2014

SECTION 2 - HAZARDS IDENTIFICATION

Classification of the substance or mixture

Regulation (EC) 1272/2008 [GHS]	Respiratory Sensitizer - Category 1. Skin Sensitizer - Category 1. Mixture not yet fully tested.
Directive 67/548/EEC or 1999/45/EC	Xn - R42 (Respiratory Sens.), R43 (Skin Sens.). Mixture not yet fully tested.

Label elements

SECTION 2 - HAZARDS IDENTIFICATION …continued

CLP/GHS hazard pictogram



CLP/GHS signal word Danger

CLP/GHS hazard statements H317 - May cause allergic skin reaction. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

CLP/GHS precautionary statements P261 - Avoid breathing mist or vapor. P272 - Contaminated work clothing should not be allowed out of the workplace. P280 - Wear protective gloves/eye protection/ face protection. P285 - In case of inadequate ventilation wear respiratory protection. P302 + P352 - If on skin: Wash with plenty of soap and water. P304 + P341 - IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention. P342 + P311 - If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician. P363 - Wash contaminated clothing before reuse. P501 - Dispose of contents/container to location in accordance with local/regional/national/international regulations.

EU symbol/indication of danger



Xn - Harmful

Risk (R) Phrase(s) R42/43 - May cause sensitization by inhalation and skin contact.

Safety Advice S2 - Keep out of reach of children. S23 - Do not breathe spray. S24 - Avoid contact with skin. S37 - Wear suitable protective gloves. S63 - In case of accident by inhalation: remove casualty to fresh air and keep at rest.

Other hazards No data were available for the mixture. The following data describe the hazards of individual ingredients, where applicable. Because the mixture contains a protein (bovine serum albumin) it may cause an allergic skin or respiratory reaction (e.g., potential to cause anaphylaxis). In a workplace setting, the likelihood of systemic effects following accidental ingestion is low, due to the rapid breakdown of proteins in the digestive tract. Bovine serum albumin has been associated with occupational sensitization. Material produced in compliance with USDA and/or CPMP/BWP/1230/98 (Guidance on Minimizing the Risk of Transmitting Animal Spongiform Encephalopathy Agents via Medicinal Products). This is a CPMP/ BWP/1230/98 Category IV material: it does not contain nor is it derived from specified risk materials as defined in Commission decision 97/534/EC (or successive amendments).

US Signal word Danger

SECTION 2 - HAZARDS IDENTIFICATION …continued

US Hazard overview May cause allergic respiratory reaction. May cause allergic skin reaction. Mixture not yet fully tested.

Note This mixture is classified as dangerous/hazardous according to Directive 1999/45/EC, Regulation EC No 1272/2008 (EU CLP) and applicable US regulations. See Section 16 for full text of EU and GHS classifications. The pharmacological, toxicological, and ecological properties of this mixture have not been fully characterized. The CLP/GHS classifications are based on Regulation (EC) 1272/2008. The EU symbol/indicator of danger, R Phrases and Safety Advice are based on Directive 1999/45/EC.

SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient	CAS #	EINECS/ELINCS#	Amount	EU Classification	GHS Classification
Tromethamine (Tris {hydroxymethyl} aminomethane)	77-86-1	201-064-4	1-2%	Irritant - Xi: R36/37/38	SI2: H315; EI2: H319; STOT-S3: H335
HEPES Buffer	7365-45-9	N/A	1-2%	N/A	N/A
Bovine serum albumin	9048-46-8	N/A	0.2-1%	Harmful – Xn: R42/R43	SS1: H317, RS1: H334

Note The ingredient(s) listed above are considered hazardous. The remaining components are non-hazardous and/or present at amounts below reportable limits. See Section 16 for full text of EU and GHS classifications. The EU classification is based on Directive 67/548/EEC and the CLP/GHS classification is based on Regulation (EC) 1272/2008.

SECTION 4 – FIRST AID MEASURES

Description of first aid measures

Immediate Medical Attention Needed Yes

Eye Contact If easy to do, remove contact lenses, if worn. Immediately flush eyes with copious quantities of water for at least 15 minutes. If irritation occurs or persists, notify medical personnel and supervisor.

Skin Contact Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.

Inhalation Immediately move exposed subject to fresh air. If not breathing, give artificial respiration. If breathing is labored, administer oxygen. Immediately notify medical personnel and supervisor.

SECTION 4 – FIRST AID MEASURES …continued

Ingestion	If swallowed, call a physician immediately. Do not induce vomiting unless directed by medical personnel. Do not give anything to drink unless directed by medical personnel. Never give anything by mouth to an unconscious person. Notify medical personnel and supervisor.
Protection of first aid responders	See Section 8 for Exposure Controls/Personal Protection recommendations.
Most important symptoms and effects, both acute and delayed	See Sections 2 and 11
Indication of immediate medical attention and special treatment needed, if necessary	Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

SECTION 5 – FIREFIGHTING MEASURES

Extinguishing media	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
Specific hazards arising from the substance or mixture	No information identified. May emit toxic fumes of carbon monoxide, carbon dioxide, and oxides of nitrogen.
Flammability/Explosivity	No explosivity or flammability data identified. As product is an aqueous solution, it is not expected to be flammable or explosive.
Advice for firefighters	In case of fire in the surroundings: use the appropriate extinguishing agent. Wear full protective clothing and an approved, positive pressure, self-contained breathing apparatus. Decontaminate all equipment after use.

SECTION 6 – ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures	If product is released or spilled, take proper precautions to minimize exposure by using appropriate personal protective equipment (see Section 8). Area should be adequately ventilated.
Environmental precautions	Do not empty into drains. Avoid release to the environment.
Methods and material for containment and cleaning up	Surround spill with absorbents and place a damp cloth or towel over the area to minimize entry into the air. Add excess liquid to allow the material to enter into solution. Capture remaining liquid onto spill absorbents. Place spill materials into a leak-proof container for disposal in accordance with applicable waste disposal regulations (see section 13). Decontaminate the area twice with an appropriate solvent, such as 5% chlorine bleach solution.

SECTION 6 – ACCIDENTAL RELEASE MEASURES …continued

Reference to other sections See Sections 8 and 13 for more information.

SECTION 7 – HANDLING AND STORAGE

Precautions for safe handling Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing mist/spray.

Conditions for safe storage including any incompatibilities Store at 2-8 °C in a well-ventilated area, away from incompatible materials. Keep container upright and tightly closed.

Specific end use(s) No information identified.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION

Control Parameters/Occupational Exposure Limit Values

Compound	Issuer	Type	OEL
Tromethamine (Tris {hydroxymethyl} aminomethane)	--	--	--
HEPES Buffer	--	--	--
Bovine serum albumin	--	--	--

Exposure/Engineering controls Selection and use of containment devices and personal protective equipment should be based on a risk assessment of exposure potential. Use local exhaust and/ or enclosure at aerosol/mist-generating points. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling.

Respiratory protection Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. For routine handling tasks, an approved and properly fitted air purifying respirator should provide ancillary protection based on the known or foreseeable limitations of existing engineering controls. Use a powered air-purifying respirator equipped with HEPA filters or combination filters or a positive-pressure air-supplied respirator if there is any potential for an uncontrolled release, when exposure levels are not known, or in any other circumstances where a lower level of respiratory protection may not provide adequate protection.

Hand protection Wear nitrile or other impervious gloves if skin contact is possible. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.

Skin protection Wear appropriate gloves, lab coat, or other protective overgarment if skin contact is likely. Base the choice of skin protection on the job activity, potential for skin contact and solvents and reagents in use.

Eye/face protection Wear safety glasses with side shields, chemical splash goggles, or full face shield, if necessary. Base the choice of protection on the job activity and potential for contact with eyes or face. An emergency eye wash station should be available.

SECTION 8 – EXPOSURE CONTROLS/PERSONAL PROTECTION …continued

Environmental Exposure Controls	Avoid release to the environment and operate within closed systems wherever practicable. Air and liquid emissions should be directed to appropriate pollution control devices. In case of spill, do not release to drains. Implement appropriate and effective emergency response procedures to prevent release or spread of contamination and to prevent inadvertent contact by personnel.
Other protective measures	Wash hands in the event of contact with this product/mixture, especially before eating, drinking or smoking. Protective equipment is not to be worn outside the work area (e.g., in common areas or out-of-doors). Decontaminate all protective equipment following use.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance	Clear liquid
Color	Amber
Odor	No information identified.
Odor threshold	No information identified.
pH	5-8
Melting point/freezing point	No information identified.
Initial boiling point and boiling range	No information identified.
Flash point	No information identified.
Evaporation rate	No information identified.
Flammability (solid, gas)	No information identified.
Upper/lower flammability or explosive limits	No information identified.
Vapor pressure	No information identified
Vapor density	No information identified.
Relative density	No information identified.
Water solubility	Miscible in water.
Solvent solubility	No information identified.

SECTION 9 – PHYSICAL AND CHEMICAL PROPERTIES …continued

Partition coefficient (*n-octanol/water*)	No information identified.
Auto-ignition temperature	No information identified.
Decomposition temperature	No information identified.
Viscosity	No information identified.
Explosive properties	No information identified.
Oxidizing properties	No information identified.

Other information

Molecular weight	No information identified.
Molecular formula	No information identified.

SECTION 10 – STABILITY AND REACTIVITY

Reactivity	No information identified.
Chemical stability	Stable when stored as recommended.
Possibility of hazardous reactions	Not expected to occur.
Conditions to avoid	Avoid excessive heat.
Incompatible materials	No information identified.
Hazardous decomposition products	No information identified.

SECTION 11 – TOXICOLOGICAL INFORMATION

Information on toxicological effects

Route of entry May be absorbed by inhalation, skin contact and ingestion.

Acute toxicity

Compound	Type	Route	Species	Dose
Tromethamine (Tris {hydroxymethyl} aminomethane)	LD_{50}	Oral	Rat	5900 mg/kg
	LD_{50}	Intravenous	Rat	1800 mg/kg
	LD_{50}	Intravenous	Mouse	1210 mg/kg
HEPES Buffer	--	--	--	--
Bovine serum albumin	--	--	--	--

SECTION 11 - TOXICOLOGICAL INFORMATION …continued

Additional acute toxicity information	No studies identified.
Irritation/Corrosion	No studies identified.
Sensitization	No studies identified. As bovine serum albumin (BSA) is derived from animal (foreign) protein, there is potential for the material to cause an allergic response in humans. Occupational exposure to BSA has caused some cases of allergic sensitization in workers handling this material.
STOT-single exposure	No studies identified.
STOT-repeated exposure/Repeat-dose toxicity	No studies identified.
Reproductive toxicity	No studies identified.
Developmental toxicity	No studies identified.
Genotoxicity	No studies identified.
Carcinogenicity	No studies identified. This mixture is not listed by NTP, IARC, ACGIH or OSHA as a carcinogen.
Aspiration hazard	No data available.
Human health data	See "Section 2 - Other Hazards"
Additional information	The toxicological properties of this mixture have not been fully characterized.

SECTION 12 - ECOLOGICAL INFORMATION

Toxicity

Compound	Type	Species	Concentration
Tromethamine (Tris {hydroxymethyl} aminomethane)	--	--	--
HEPES Buffer	--	--	--
Bovine serum albumin	--	--	--

Persistence and Degradability	No data available.
Bioaccumulative potential	No data available.
Mobility in soil	No data available.
Results of PBT and vPvB assessment	No data available.

SECTION 12 - ECOLOGICAL INFORMATION …continued

Other adverse effects	No data available.
Note	The environmental characteristics of this product/mixture have not been fully investigated. Releases to the environment should be avoided.

SECTION 13 - DISPOSAL CONSIDERATIONS

Waste treatment methods	Used product should be disposed of according to local, state, and federal regulations. Do not send down the drain or flush down the toilet. All wastes containing the material should be properly labeled. Dispose of wastes in accordance to prescribed federal, state, and local guidelines, e.g., appropriately permitted chemical waste incinerator. Rinse waters resulting from spill cleanups should be discharged in an environmentally safe manner, e.g., appropriately permitted municipal or on-site wastewater treatment facility.

SECTION 14 - TRANSPORT INFORMATION

Transport	Based on the available data, this product/mixture is not regulated as a hazardous material/dangerous good under EU ADR/RID, US DOT, Canada TDG, IATA, or IMDG.
UN number	None assigned.
UN proper shipping name	None assigned.
Transport hazard classes and packing group	None assigned.
Environmental hazards	Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.
Special precautions for users	Mixture not fully tested - avoid exposure.
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	Not applicable.

SECTION 15 - REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture	This SDS complies with the requirements under US, EU and GHS (EU CLP - Regulation EC No 1272/2008) guidelines. Consult your local or regional authorities for more information.

SECTION 15 - REGULATORY INFORMATION …continued

Chemical safety assessment	Not conducted.
OSHA Hazardous	Yes. Danger. May cause allergic respiratory reaction. May cause allergic skin reaction. Mixture not fully tested.
WHMIS classification	This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the SDS contains all of the information required by those regulations.
TSCA status	Not listed
SARA section 313	Not listed.
California proposition 65	Not listed.

SECTION 16 - OTHER INFORMATION

Full text of R phrases and EU Classifications	Xn - Harmful. R42 - May cause sensitization by inhalation. R43 - May cause sensitization by skin contact.
Full text of H phrases, P phrases and GHS classification	SS1 - Skin sensitizer Category 1. RS1 - Respiratory Sensitizer Category 1. H317 - May cause an allergic skin reaction. H334 - May cause allergic or asthmatic symptoms or breathing difficulty if inhaled.
Sources of data	Information from published literature and internal company data.
Abbreviations	ACGIH - American Conference of Governmental Industrial Hygienists; ADR/RID - European Agreement Concerning the International Carriage of Dangerous Goods by Road/Rail; AIHA - American Industrial Hygiene Association; CAS# - Chemical Abstract Services Number; CLP - Classification, Labelling, and Packaging of Substances and Mixtures; DNEL - Derived No Effect Level; DOT - Department of Transportation; EINECS - European Inventory of New and Existing Chemical Substances; ELINCS - European List of Notified Chemical Substances; EU - European Union; GHS - Globally Harmonized System of Classification and Labeling of Chemicals; IARC - International Agency for Research on Cancer; IDLH - Immediately Dangerous to Life or Health; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods; LOEL - Lowest Observed Effect Level; LOAEL - Lowest Observed Adverse Effect Level; NIOSH - The National Institute for Occupational Safety and Health; NOEL - No Observed Effect Level; NOAEL - No Observed Adverse Effect Level; NTP - National Toxicology Program; OEL - Occupational Exposure Limit; OSHA - Occupational Safety and Health Administration; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; WHMIS - Workplace Hazardous Materials Information System
Revisions	Updated formatting in accordance with General US, EU, and GHS (EU CLP) requirements.

SECTION 16 - OTHER INFORMATION …continued

Disclaimer

The above information is based on data available to us and is believed to be correct. Since the information may be applied under conditions beyond our control and with which we may be unfamiliar, we do not assume any responsibility for the results of its use and all persons receiving it must make their own determination of the effects, properties and protections which pertain to their particular conditions. No representation, warranty, or guarantee, express or implied (including a warranty of fitness or merchantability for a particular purpose), is made with respect to the materials, the accuracy of this information, the results to be obtained from the use thereof, or the hazards connected with the use of the material. Caution should be used in the handling and use of the material because it is a pharmaceutical/diagnostic product. The above information is offered in good faith and with the belief that it is accurate. As of the date of issuance, we are providing all information relevant to the foreseeable handling of the material. However, in the event of an adverse incident associated with this product, this Safety Data Sheet is not, and is not intended to be, a substitute for consultation with appropriately trained personnel.