

# SAFETY DATA SHEET

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

### Contact information

#### General

**Thermo**

SCIENTIFIC

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+1 (202) 483-7616 (Europe)

### Product identifier

DRI™ Drugs of Abuse Calibrators and Controls

#### Synonyms

100082 DRI Ecstasy 250 ng/mL Calibrator  
100081 DRI Ecstasy 500 ng/mL Calibrator  
100080 DRI Ecstasy 750 ng/mL Calibrator  
100079 DRI Ecstasy 1000 ng/mL Calibrator  
10011207 DRI Ethyl Glucuronide Negative Calibrator (CE)  
10011208 DRI Ethyl Glucuronide Calibrator 100 ng/mL (CE)  
10011210 DRI Ethyl Glucuronide Calibrator 500 ng/mL (CE)  
10011212 DRI Ethyl Glucuronide Calibrator 1000 ng/mL (CE)  
10011213 DRI Ethyl Glucuronide Calibrator 2000 ng/mL (CE)  
10012135 DRI Ethyl Glucuronide 375 ng/mL Control (CE)  
10012136 DRI Ethyl Glucuronide 625 ng/mL Control (CE)  
10012137 DRI Ethyl Glucuronide 750 ng/mL Control (CE)  
10012138 DRI Ethyl Glucuronide 1250 ng/mL Control (CE)  
10015932 DRI Ethyl Glucuronide Negative Calibrator (CJF)  
10015933 DRI Ethyl Glucuronide Calibrator 100 ng/mL (CJF)  
10015935 DRI Ethyl Glucuronide Calibrator 500 ng/mL (CJF)  
10015938 DRI Ethyl Glucuronide Calibrator 1000 ng/mL (CJF)  
10015940 DRI Ethyl Glucuronide Calibrator 2000 ng/mL (CJF)  
10015934 DRI Ethyl Glucuronide 375 ng/mL Control (CJF)  
10015936 DRI Ethyl Glucuronide 625 ng/mL Control (CJF)  
10015937 DRI Ethyl Glucuronide 750 ng/mL Control (CJF)  
10015939 DRI Ethyl Glucuronide 1250 ng/mL Control (CJF)  
100117 DRI Methadone Metabolite 150 ng/mL Calibrator  
100118 DRI Methadone Metabolite 300 ng/mL Calibrator  
100120 DRI Methadone Metabolite 1000 ng/mL Calibrator  
100122 DRI Methadone Metabolite 2000 ng/mL Calibrator  
10016023 DRI Fentanyl 2 ng/mL calibrator (CJF)  
10016022 DRI Fentanyl 1 ng/mL control (CJF)

10016024, DRI Fentanyl 3 ng/mL control (CJF)  
10016485, DRI Fentanyl 2 ng/mL calibrator (CE)  
10016484, DRI Fentanyl 1 ng/mL control (CE)  
10016486, DRI Fentanyl 3 ng/mL control (CE)  
0404 DRI Cotinine Calibrator Kit  
0460 DRI Cotinine Low Control Kit  
0470 DRI Cotinine High Control Kit  
0235 DRI THC Urine Calibrator 20 ng/mL  
1397 DRI THC Urine Calibrator 20 ng/mL  
0042 DRI THC Urine Calibrator 50 ng/mL  
1398 DRI THC Urine Calibrator 50 ng/mL  
0044 DRI THC Urine Calibrator 100 ng/mL  
1399 DRI THC Urine Calibrator 100 ng/mL  
0206 DRI THC Urine Calibrator 200 ng/mL  
1400 DRI THC Urine Calibrator 200 ng/mL  
0170 DRI THC Urine 40 ng/mL Control  
1401 DRI THC Urine 40 ng/mL Control  
0168 DRI THC Urine 60 ng/mL Control  
1402 DRI THC Urine 60 ng/mL Control  
0214 DRI THC Urine 75 ng/mL Control  
1404 DRI THC Urine 125 ng/mL Control  
0212 DRI THC Urine 125 ng/mL Control  
1588 DRI Multi Drug Calibrator 1  
1597 DRI Multi Drug Calibrator 4  
1589 DRI Multi Drug Calibrator 1  
1598 DRI Multi Drug Calibrator 4  
1591 DRI Multi Drug Calibrator 2  
1664 DRI Negative Urine Calibrator  
1592 DRI Multi Drug Calibrator 2  
1388 DRI Negative Urine Calibrator  
1594 DRI Multi Drug Calibrator 3  
1595 DRI Multi Drug Calibrator 3  
0034 DRI Drugs of Abuse Low Calibrator  
0036 DRI Drugs of Abuse High Calibrator  
1609 DRI Opiate Urine Calibrator 1  
1610 DRI Opiate Urine Calibrator 2  
10018079 DRI Hydrocodone Assay Calibrator 100  
10018080 DRI Hydrocodone Assay Calibrator 300  
10018081 DRI Hydrocodone Assay Calibrator 500  
10018082 DRI Hydrocodone Assay Calibrator 1000  
10018149 DRI Hydrocodone Assay Control Kit  
10026302 DRI Hydromorphone Control  
1662848 CEDIA™ Propoxyphene/Methadone Cut Off Calibrator  
1662856 CEDIA™ Propoxyphene/Methadone Intermediate Calibrator  
1662864 CEDIA™ Propoxyphene/Methadone High Calibrator  
1815440 CEDIA™ Specialty Control Set  
100200 MGC Primary DAU Control Set  
100201 MGC Clinical DAU Control Set  
100202 MGC Select DAU Control Set  
10021390 CEDIA™ Negative Calibrator II  
10020799 CEDIA™ Buprenorphine II Calibrator 10ng/mL  
10020800 CEDIA™ Buprenorphine II Calibrator 20ng/mL  
10020801 CEDIA™ Buprenorphine II Calibrator 50ng/mL  
10020802 CEDIA™ Buprenorphine II Calibrator 100ng/mL  
10020804 CEDIA™ Buprenorphine II Control

10022930 CEDIA™ Negative Calibrator III (1 x 10 mL) CJF  
 10022931 CEDIA™ AB-PINACA 5 ng/mL Calibrator (1 x 5mL) CJF  
 10022932 CEDIA™ AB-PINACA 20 ng/mL Calibrator (1 x 5mL) CJF  
 10022933 CEDIA™ AB-PINACA 50 ng/mL Calibrator (1 x 5mL) CJF  
 10022934 CEDIA™ AB-PINACA 100 ng/mL Calibrator (1 x 5mL) CJF  
 10022935 CEDIA™ AB-PINACA Control Set (2 x 5mL each) CJF  
 10022753 CEDIA™ Negative Calibrator II (1 x 7.5 mL) CJF  
 10023466 CEDIA™ Negative Calibrator III (CE)  
 10023467 CEDIA™ AB-PINACA 5 ng/mL Calibrator (CE)  
 10023468 CEDIA™ AB-PINACA 20 ng/mL Calibrator (CE)  
 10023469 CEDIA™ AB-PINACA 50 ng/mL Calibrator (CE)  
 10023470 CEDIA™ AB-PINACA 100 ng/mL Calibrator (CE)  
 10023471 CEDIA™ AB-PINACA Control Set (CE)  
 10022754 CEDIA™ UR-144 10 ng/mL Calibrator (1 x 5 mL)  
 10022755 CEDIA™ UR-144 20 ng/mL Calibrator (1 x 5 mL)  
 10022756 CEDIA™ UR-144 40 ng/mL Calibrator (1 x 5 mL)  
 10022759 CEDIA™ UR-144 60 ng/mL Calibrator (1 x 5 mL)  
 10022760 CEDIA™ UR-144 Control Set (2 x 5 mL)  
 10024435 DRI MDA 650 ng/mL Control  
 10026590 CEDIA™ Mitragynine (Kratom) 20 ng/mL Calibrator  
 10026591 CEDIA™ Mitragynine (Kratom) 50 ng/mL Calibrator  
 10026592 CEDIA™ Mitragynine (Kratom) 100 ng/mL Calibrator  
 10026593 CEDIA™ Mitragynine (Kratom) 200 ng/mL Calibrator  
 10026594 CEDIA™ Mitragynine (Kratom) Control Set

**Trade names** DRI THC (Cannabinoids) Controls and Calibrators, DRI Ecstasy Calibrators  
 DRI Methadone Metabolite Calibrators, DRI Ethyl Glucuronide Controls and  
 Calibrators, DRI Fentanyl Controls and Calibrators, DRI Cotinine Controls and  
 Calibrators, DRI Opiate Calibrators, DRI Multi- Drug Calibrators, DRI Negative  
 Urine Calibrators, DRI Hydrocodone Assay Calibrators and Controls, DRI  
 Hydromorphone Control, CEDIA Propoxyphene/Methadone Calibrators, MGC  
 Primary DAU Controls, CEDIA Specialty Control Set, MGC Clinical DAU  
 Controls, MGC Select DAU Controls, CEDIA Buprenorphine II Calibrators and  
 Control, CEDIA AB-PINACA Calibrators and Controls, CEDIA UR-144  
 Calibrators and Controls, DRIMDA Control. CEDIA Mitragynine (Kratom).

**Chemical family** Mixture

**Relevant identified uses of the substance or mixture and uses advised against** *In vitro* diagnostic kit.  
 Criminal, Forensic, and Justice kits

**Note** The pharmacological, toxicological, and ecological properties of this product/mixture have not been fully characterized. This SDS will be updated as more data become available.

## SECTION 2 - HAZARDS IDENTIFICATION

### Classification of the substance or mixture

**Globally Harmonized System [GHS]** Respiratory sensitizer - Category 1. Skin sensitizer - Category 1.

**Other/Supplemental** Mixture not yet fully tested

### Label elements

## SECTION 2 - HAZARDS IDENTIFICATION ...continued

### GHS hazard pictogram



### GHS signal word

Danger

### GHS hazard statements

H317 - May cause allergic skin reaction. H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

### 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.

### Other hazards

The potential health hazards associated with exposure/handling of this mixture are unknown; no data specific for the mixture were identified. The following data describe the hazards of individual ingredients, where applicable.

This product/mixture contains human urine and should be treated/handled as a potential biohazard. All such human urine has been derived from donors tested individually and shown by FDA approved methods to be free from antibodies to Human Immune Deficiency Virus and Hepatitis B and C. As no test method can offer complete assurance that these or other infectious agents are not present, this product should be handled using standard biosafety precautions.

The mixture contains bovine serum albumin which 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).

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. Proteins, in general, can cause skin and/or respiratory sensitization.

### Note

This mixture is classified as hazardous under GHS as implemented by Regulation EC No 1272/2008 (EU CLP), WHMIS 2015 (Health Canada), and Hazard Communication Standard No. 1910.1200 (US OSHA).

### SECTION 3 - COMPOSITION/INFORMATION ON INGREDIENTS

<u>Ingredient</u>	<u>CAS #</u>	<u>EINECS/ELIN CS#</u>	<u>Amount</u>	<u>GHS Classification</u>
Urine (Human)	N/A	N/A	8–10%	Not classified
Bovine serum albumin	9048-46-8	N/A	0.1-0.3%	SS1: H317; RS1: H334
Sodium azide	26628-22-8	247-852-1	≤0.09%	ATO2: H300; AA1: H400; CA1: H410; EUH032

**Note** The ingredient(s) listed above are considered hazardous. Human urine is listed because it is a potential biohazard. The remaining components are non-hazardous and/or present at amounts below reportable limits. Product also contains trace amounts of active pharmaceutical ingredients (<0.01%), as well as methanol (≤0.001%) and DMF (≤0.02%). See Section 16 for full text of GHS classifications.

### SECTION 4 - FIRST AID MEASURES

#### Description of first aid measures

<b>Immediate Medical Attention Needed</b>	Yes
<b>Eye Contact</b>	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.
<b>Skin Contact</b>	Wash exposed area with soap and water and remove contaminated clothing/shoes. If irritation occurs or persists, notify medical personnel and supervisor.
<b>Inhalation</b>	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.
<b>Ingestion</b>	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.
<b>Protection of first aid responders</b>	See Section 8 for Exposure Controls/Personal Protection recommendations.
<b>Most important symptoms and effects, both acute and delayed</b>	See Sections 2 and 11
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Medical conditions aggravated by exposure: None known or reported. Treat symptomatically and supportively.

## SECTION 5 - FIREFIGHTING MEASURES

<b>Extinguishing media</b>	Use water spray (fog), foam, dry powder, or carbon dioxide, as appropriate for surrounding fire and materials.
<b>Specific hazards arising from the substance or mixture</b>	No information identified. May emit carbon monoxide, carbon dioxide, and oxides of nitrogen.
<b>Flammability/Explosivity</b>	No explosivity or flammability data identified. As product is an aqueous solution, it is not expected to be flammable or explosive.
<b>Advice for firefighters</b>	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

<b>Personal precautions, protective equipment and emergency procedures</b>	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. Do not breathe mist/spray.
<b>Environmental precautions</b>	Do not empty into drains. Avoid release to the environment.
<b>Methods and material for containment and cleaning up</b>	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.
<b>Reference to other sections</b>	See Sections 8 and 13 for more information.

## SECTION 7 - HANDLING AND STORAGE

<b>Precautions for safe handling</b>	This material should be handled at the Biosafety Level 2 (BSL2) consistent with the U.S. Department of Health and Human Services, the U.S. Public Health Service, Centers for Disease Control (CDC), and National Institute of Health (NIH) Guidelines "Biosafety in Microbiological and Biomedical Laboratories" (December 2009, HHS Publication No. (CDC) 21-1112). Avoid contact with eyes, skin and other mucous membranes. Wash thoroughly after handling. Avoid breathing vapor/mist/spray.
<b>Conditions for safe storage including any incompatibilities</b>	Store at 2-8 °C in a well-ventilated area, away from incompatible materials. Keep container upright and tightly closed.
<b>Specific end use(s)</b>	No information identified.



**SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued**

**Control  
Parameters/Occupational  
Exposure Limit Values  
...continued**

<u>Compound</u>	<u>Issuer</u>	<u>Type</u>	<u>OEL</u>
Sodium azide	ACGIH, Australia, Austria, Belgium, Bulgaria, Croatia, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Greece, Hungary, Ireland, Italy, Latvia, Lithuania, Malta, Netherlands, Poland, Romania, Slovakia, Slovenia, Spain, Sweden, U.S.-California OSHA, United Kingdom	OEL-TWA	0.1 mg/m <sup>3</sup>
	NIOSH, U.S.-California OSHA	Ceiling	0.3 mg/m <sup>3</sup>
	Germany	OEL-STEL	0.4 mg/m <sup>3</sup>
	Germany	OEL-TWA	0.2 mg/m <sup>3</sup>

**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. Laboratory operations should be conducted within a laboratory hood or biological safety cabinet if feasible. Emphasis is to be placed on closed material transfer systems and process containment, with limited open handling.



## SECTION 8 - EXPOSURE CONTROLS/PERSONAL PROTECTION ...continued

<b>Respiratory protection</b>	Choice of respiratory protection should be appropriate to the task and the level of existing engineering controls. If handling outside of containment device, an approved and properly fitted air-purifying respirator with HEPA filters should be considered to 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.
<b>Hand protection</b>	Wear nitrile or other impervious gloves if skin contact is possible. Double gloves should be considered. When the material is dissolved or suspended in an organic solvent, wear gloves that provide protection against the solvent.
<b>Skin protection</b>	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.
<b>Eye/face protection</b>	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.
<b>Environmental Exposure Controls</b>	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.
<b>Other protective measures</b>	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

<b>Appearance</b>	Liquid
<b>Color</b>	Light yellow
<b>Odor</b>	No information identified.
<b>Odor threshold</b>	No information identified.
<b>pH</b>	5.9-6.1
<b>Melting point/freezing point</b>	No information identified.
<b>Initial boiling point and boiling range</b>	No information identified.

## SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES ...continued

<b>Flash point</b>	No information identified.
<b>Evaporation rate</b>	No information identified.
<b>Flammability (solid, gas)</b>	No information identified.
<b>Upper/lower flammability or explosive limits</b>	No information identified.
<b>Vapor pressure</b>	No information identified.
<b>Vapor density</b>	No information identified.
<b>Relative density</b>	No information identified.
<b>Water solubility</b>	Miscible with water.
<b>Solvent solubility</b>	No information identified.
<b>Partition coefficient (n-octanol/water)</b>	No information identified.
<b>Auto-ignition temperature</b>	No information identified.
<b>Decomposition temperature</b>	No information identified.
<b>Viscosity</b>	No information identified.
<b>Explosive properties</b>	No information identified.
<b>Oxidizing properties</b>	No information identified.
<b>Other information</b>	
<b>Molecular formula</b>	Not applicable (Mixture)
<b>Molecular weight</b>	Not applicable (Mixture)

## SECTION 10 - STABILITY AND REACTIVITY

<b>Reactivity</b>	Sodium azide may react with lead or copper plumbing to form highly explosive metal azides.
<b>Chemical stability</b>	Stable when stored as recommended.
<b>Possibility of hazardous reactions</b>	Not expected to occur.
<b>Conditions to avoid</b>	Avoid temperatures $\geq 25^{\circ}$ C.
<b>Incompatible materials</b>	No information identified.
<b>Hazardous decomposition products</b>	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

<u>Compound</u>	<u>Type</u>	<u>Route</u>	<u>Species</u>	<u>Dose</u>
Urine (Human)	--	--	--	--
Bovine serum albumin	--	--	--	--
Sodium azide	LD <sub>50</sub>	Oral	Rat	27 mg/kg
	LD <sub>50</sub>	Oral	Mouse	27 mg/kg
	LD <sub>50</sub>	Dermal	Rabbit	20 mg/kg

**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. None of the components of this mixture present at levels greater than or equal to 0.1% are listed by NTP, IARC, ACGIH or OSHA as a carcinogen.

**Aspiration hazard** No studies identified

**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

<u>Compound</u>	<u>Type</u>	<u>Species</u>	<u>Concentration</u>
Urine (Human)	--	--	--
Bovine serum albumin	--	--	--
Sodium azide	LC <sub>50</sub> /96h	Oncorhynchus mykiss	0.8 mg/L
	LC <sub>50</sub> /96h	Lepomis macrochirus	0.7 mg/L
	LC <sub>50</sub> /96h	Pimephales promelas	5.46 mg/L

## SECTION 12 - ECOLOGICAL INFORMATION ...continued

<b>Additional toxicity information</b>	Sodium azide is toxic to aquatic organisms and should not be allowed to accumulate in metal piping as it has the potential to form explosive mixtures.
<b>Persistence and Degradability</b>	No data available.
<b>Bioaccumulative potential</b>	No data available.
<b>Mobility in soil</b>	No data available.
<b>Results of PBT and vPvB assessment</b>	Not performed.
<b>Other adverse effects</b>	No data available.
<b>Note</b>	The environmental characteristics of this product/mixture have not been fully investigated. The above data are for the active ingredient and/or any other ingredient(s) where applicable. Although present at low concentrations, disposal should consider that sodium azide is present. Releases to the environment should be avoided.

## SECTION 13 - DISPOSAL CONSIDERATIONS

<b>Waste treatment methods</b>	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.
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## SECTION 14 - TRANSPORT INFORMATION

<b>Transport</b>	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.
<b>UN number</b>	None assigned.
<b>UN proper shipping name</b>	None assigned.
<b>Transport hazard classes and packing group</b>	None assigned.
<b>Environmental hazards</b>	Based on the available data, this product/mixture is not regulated as an environmental hazard or a marine pollutant.
<b>Special precautions for users</b>	Avoid release to the environment.

## SECTION 14 - TRANSPORT INFORMATION ...continued

**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 generally complies with the requirements listed under current guidelines in the US, EU and Canada. Consult your local or regional authorities for more information.

**Chemical safety assessment** Not conducted.

**TSCA status** All components of mixture are on TSCA Inventory or are exempt.

**SARA section 313** Not listed.

**California proposition 65** Not listed.

**Additional information** Federal German Government Water Hazard Classification:  
WHC 3

## SECTION 16 - OTHER INFORMATION

**Full text of H phrases and GHS classifications** RS1 - Respiratory Sensitizer Category 1. H334 - May cause allergic or asthmatic symptoms or breathing difficulty if inhaled. SS1 - Skin sensitizer Category 1. H317 - May cause an allergic skin reaction. ATO2 - Acute Toxicity (Oral) Category 2. H300 - Fatal if swallowed. AA1- Aquatic toxicity (acute) - Category 1. H400 - Very toxic to aquatic life. CA1 - Aquatic toxicity (chronic) - Category 1. H410 - Very toxic to aquatic life with long lasting effects. EUH032 - Contact with acids liberates very toxic gas.

**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; PBT

## SECTION 16 - OTHER INFORMATION ...continued

**Abbreviations** ...continued - Persistent, Bioaccumulative, and Toxic; PNEC - Predicted No Effect Concentration; SARA - Superfund Amendments and Reauthorization Act; STOT - Specific Target Organ Toxicity; STEL - Short Term Exposure Limit; TDG - Transportation of Dangerous Goods; TSCA - Toxic Substances Control Act; TWA - Time Weighted Average; vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

**Issue Date** 11 January 2019

**Revisions** This is the second version of this SDS.

**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.