



**SAFETY DATA SHEET: Urinalysis Drugs of Abuse Calibrators and Controls**

According to Regulation (EC) No. 1907/2006

**SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING**

**1.1 Product Identifier:**

Reference Number:	Urinalysis Drugs of Abuse (DAU) Calibrators and Controls:
C68807	LZI Universal Negative Calibrator
C68810	LZI Norfentanyl Qualitative Calibrator
C68811	LZI Norfentanyl Semi-Quantitative Calibrator Set
C68821	LZI Norfentanyl Level 1 Control
C68822	LZI Norfentanyl Level 2 Control
C68830	LZI Hydrocodone 300 Qualitative Calibrator
C68831	LZI Hydrocodone 300 Semi-Quantitative Calibrator Set
C68828	LZI Hydrocodone 300 Level 1 Control
C68829	LZI Hydrocodone 300 Level 2 Control
C68804	LZI Norketamine Qualitative Calibrator
C68803	LZI Norketamine Semi-Quantitative Calibrator Set
C68805	LZI Norketamine Level 1 Control
C68806	LZI Norketamine Level 2 Control

**1.2 Relevant identified uses of the substance of mixture and uses advised against**

Recommended restrictions on use : For professional users only.

**1.3 Details of the supplier of the safety data sheet**

Company	:	Lin-Zhi International, Inc. 2945 Oakmead Village Court Santa Clara, CA 95051 USA
Telephone	:	+1 408-970-8811
Telefax	:	+1 408-970-9030
Responsible Department	:	+1 408-970-8811 option 1
e-mail address	:	customerservice@lin-zhi.com
Website	:	www.lin-zhi.com

**1.4 Emergency contact**

Poison Control Centers	:	<a href="https://www.eapcct.org/index.php?page=home">https://www.eapcct.org/index.php?page=home</a>
Toxicology Help Center	:	<a href="https://echa.europa.eu/support/helpdesks">https://echa.europa.eu/support/helpdesks</a>

**SECTION 2: HAZARDS IDENTIFICATION**

**2.1 Classification of the substance or mixture**

The product is a kit consisting of individual ingredients. The classification of the ingredients can be obtained from section 3. Section Label elements contains the resulting labeling for the kit.



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**2.2 Label elements**

**Labelling (Regulation (EC) No. 1272/2008)**

Not a hazardous substance or mixture.

**2.3 Other hazards**

See Section 3

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**SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Calibrators**

**Classification (Regulation (EC) No. 1272/2008)**

Not a hazardous substance or mixture.

Chemical nature : Handle as potentially infectious.

**Components**

Remarks : No hazardous ingredients

For explanation of abbreviations, see section 16.

**Controls**

**Classification (Regulation (EC) No. 1272/2008)**

Not a hazardous substance or mixture.

Chemical nature : Handle as potentially infectious.

**Components**

Remarks : No hazardous ingredients

For explanation of abbreviations, see section 16.

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**SECTION 4: FIRST AID MEASURES**

**4.1 Description of first aid measures**

General advice : Do not leave the victim unattended

If inhaled : Move to fresh air.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.

In case of skin contact : If on skin, rinse well with water.

In case of eye contact : Immediately flush eye(s) with plenty of water.  
Remove contact lenses.  
Protect unharmed eye.  
If eye irritation persists, consult a specialist.



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If swallowed : Keep respiratory tract clear.  
Do not give milk or alcoholic beverages.  
Never give anything by mouth to an unconscious person.  
If symptoms persist, call a physician.  
Rinse mouth with water.

**4.2 Most important symptoms and effects, both acute and delayed**

None known.

**4.3 Indication of any immediate medical attention and special treatment needed**

Treatment : The first aid procedure should be established in consultation with the doctor responsible for industrial medicine.

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**SECTION 5: FIREFIGHTING MEASURES**

**5.1 Extinguishing media**

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

**5.2 Special hazards arising from the substance or mixture**

Specific hazards during fire-fighting : No information available.

**5.3 Advice for firefighters**

Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.

Further information : Standard procedure for chemical fires.  
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

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**SECTION 6: ACCIDENTAL RELEASE MEASURES**

**6.1 Personal precautions, protective equipment and emergency procedures**

Personal precautions : Refer to protective measures listed in sections 7 and 8.

**6.2 Environmental precautions, protective equipment and emergency procedures**

Environmental precautions : Local authorities should be advised if significant spillages cannot be contained.



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**6.3 Methods and material for containment and cleaning up**

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Keep in suitable, closed containers for disposal.

**6.4 Reference to other sections**

Treat recovered material as described in the section “Disposal considerations”.

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**SECTION 7: HANDLING AND STORAGE**

**7.1 Precautions for safe handling**

Advice on safe handling : For personal protection see section 8.  
Smoking, eating, and drinking should be prohibited in the application area.

Advice on protection against fire and explosion : Normal measures for preventive fire protection.

Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

**7.2 Conditions for safe storage, including any incompatibilities**

Requirements for storage areas and containers : Electrical installations / working materials must comply with the technological safety standards.

Further information on storage conditions : See label, package insert, or internal guidelines

Advice on common storage : No materials to be especially mentioned.

Storage class (TRGS 510) : 12, Non Combustible Liquids

Further information on storage stability : No decomposition if stored and applied as directed.

**7.3 Specific end use(s)**

Specific use(s) : Laboratory chemicals

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**SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**
**8.1 Control parameters**
**Calibrators**
**Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Methanol	67-56-1	TWA	200 ppm 260 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative, Identifies the possibility of significant uptake through the skin			
		AGW	200 ppm 270 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit excursion factor (category)	4; (II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission), European Union (The EU has established a limit value: deviations in value and peak limit are possible), skin absorption, when there is compliance with the OEL and biological tolerance values ,there is no risk of harming the unborn child			
Sodium azide	26628-22-8	TWA	0.1 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	0.3 mg/m <sup>3</sup>	2000/39/EC
Further information	Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	0.2 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit excursion factor (category)	2; (I)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission), European Union (The EU has established a limit value: deviations in value and peak limit are possible)			

**Biological occupational exposure limits**

Substance name	CAS-No.	Control parameters	Sampling time	Basis
methanol	67-56-1	Methanol: 30 mg/L (Urine)	Immediately after exposure or after working hours, in case of long-term exposure: after more than one shift	TRGS 903



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**Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:**

Substance name	End Use	Exposure routes	Potential health effects	Value
methanol	Workers	Dermal	Acute systemic effects	40 mg/kg
	Workers	Inhalation	Acute systemic effects	260 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	260 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	40 mg/kg
	Workers	Inhalation	Long-term systemic effects	260 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	260 mg/m <sup>3</sup>
	Consumers	Dermal	Acute systemic effects	8 mg/kg
	Consumers	Inhalation	Acute systemic effects	50 mg/m <sup>3</sup>
	Consumers	Oral	Acute systemic effects	8 mg/kg
	Consumers	Inhalation	Acute local effects	50 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	50 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	8 mg/kg
	Consumers	Inhalation	Long-term local effects	50 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance Name	Environmental Compartment	Value
Methanol	Fresh water	154 mg/L
Remarks:	Derivation of the PNEC	
	Fresh water sediment	570.4 mg/kg
	Marine water	15.4 mg/L
	Soil	23.5 mg/kg
	Sewage treatment plant	100 mg/L



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**Controls**

**Occupational Exposure Limits**

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Methanol	67-56-1	TWA	200 ppm 260 mg/m <sup>3</sup>	2006/15/EC
Further information	Indicative, Identifies the possibility of significant uptake through the skin			
		AGW	200 ppm 270 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit excursion factor (category)	4; (II)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission), European Union (The EU has established a limit value: deviations in value and peak limit are possible), skin absorption, when there is compliance with the OEL and biological tolerance values ,there is no risk of harming the unborn child			
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Further information	Identifies the possibility of significant uptake through the skin, Indicative			
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Peak-limit excursion factor (category)	2; (I)			
Further information	Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission), European Union (The EU has established a limit value: deviations in value and peak limit are possible)			

**Biological occupational exposure limits**

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	Workers	Dermal	Long-term systemic effects	40 mg/kg
	Workers	Inhalation	Long-term systemic effects	260 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	260 mg/m <sup>3</sup>
	Consumers	Dermal	Acute systemic effects	8 mg/kg
	Consumers	Inhalation	Acute systemic effects	50 mg/m <sup>3</sup>
	Consumers	Oral	Acute systemic effects	8 mg/kg
	Consumers	Inhalation	Acute local effects	50 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	8 mg/kg
	Consumers	Inhalation	Long-term systemic effects	50 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	8 mg/kg
	Consumers	Inhalation	Long-term local effects	50 mg/m <sup>3</sup>

**Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:**

Substance Name	Environmental Compartment	Value
Methanol	Fresh water	154 mg/L
Remarks:	Derivation of the PNEC	
	Fresh water sediment	570.4 mg/kg
	Marine water	15.4 mg/L
	Soil	23.5 mg/kg
	Sewage treatment plant	100 mg/L

**8.2 Exposure controls**

**Engineering measures**

No data available

**Personal protective equipment**

Eye protection : Safety glasses

Hand protection

Material : Protective gloves

Remarks : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it. This recommendation is only valid for the product mentioned in the safety data sheet and provided by us and for the application specified by us. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. The suitability for a specific workplace should be discussed with the producers of the protective gloves.





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Skin and body protection : Protective suit

Respiratory protection : No personal respiratory protective equipment normally required.

**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

**9.1 Information on basic physical and chemical properties**

**Calibrators**

Appearance : liquid

Color : colourless

Odor : odourless

Odor Threshold : No data available

pH : ca. 6.0 – 7.0

Melting point/range : No data available

Boiling point/boiling range : No data available

Flash point : does not flash

Evaporation rate : No data available

Flammability (solid, gas) : Does not sustain combustion

Upper explosion limit / Upper flammability limit : No data available

Lower explosion limit / Lower flammability limit : No data available

Vapour pressure : No data available

Relative vapour density : No data available

Relative density : No data available

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available



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Partition coefficient n-octanol/water	:	No data available
Auto-ignition temperature	:	No data available
Decomposition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	No data available
Explosive properties	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

**Controls**

Appearance	:	liquid
Color	:	colourless
Odor	:	odourless
Odor Threshold	:	No data available
pH	:	ca. 6.0 – 7.0
Melting point/range	:	No data available
Boiling point/boiling range	:	No data available
Flash point	:	does not flash
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Does not sustain combustion
Upper explosion limit / Upper flammability limit	:	No data available
Lower explosion limit / Lower flammability limit	:	No data available
Vapour pressure	:	No data available
Relative vapour density	:	No data available
Relative density	:	No data available



**SAFETY DATA SHEET: Urinalysis Drugs of Abuse Calibrators and Controls**

According to Regulation (EC) No. 1907/2006

Solubility(ies)

Water solubility : completely miscible

Solubility in other solvents : No data available

Partition coefficient n-octanol/water : No data available

Auto-ignition temperature : No data available

Decomposition temperature : No data available

Viscosity

Viscosity, dynamic : No data available

Viscosity, kinematic : No data available

Explosive properties : No data available

Oxidizing properties : The substance or mixture is not classified as oxidizing.

**9.2 Other information**

**Calibrators**

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

**Controls**

Flammability (liquids) : Does not sustain combustion.

Self-ignition : Not applicable

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**SECTION 10: STABILITY AND REACTIVITY**

**10.1 Reactivity**

No dangerous reaction known under conditions of normal use.

**10.2 Chemical stability**

Stable under normal conditions.



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**10.3 Possibility of hazardous reactions**

Hazardous reactions : Stable under recommended storage conditions.  
No hazards to be specially mentioned.

**10.4 Conditions to avoid**

Conditions to avoid : Protect from frost, heat and sunlight.

**10.5 Incompatible materials**

No data available.

**10.6 Hazardous decomposition products**

No data available.

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**SECTION 11: TOXICOLOGICAL INFORMATION**

**11.1 Information on toxicological effects**

**Calibrators**

**Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.



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**STOT – single exposure**

Not classified based on available information.

**STOT – repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.

**Controls**

**Acute toxicity**

Not classified based on available information.

**Skin corrosion/irritation**

Not classified based on available information.

**Serious eye damage/eye irritation**

Not classified based on available information.

**Respiratory or skin sensitisation**

**Skin sensitisation**

Not classified based on available information.

**Respiratory sensitisation**

Not classified based on available information.

**Germ cell mutagenicity**

Not classified based on available information.

**Carcinogenicity**

Not classified based on available information.

**Reproductive toxicity**

Not classified based on available information.

**STOT – single exposure**

Not classified based on available information.

**STOT – repeated exposure**

Not classified based on available information.

**Aspiration toxicity**

Not classified based on available information.



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**SECTION 12: ECOLOGICAL INFORMATION**

**12.1 Toxicity**

**Calibrators**

No data available

**Controls**

No data available

**12.2 Persistence and degradability**

**Calibrators**

No data available

**Controls**

No data available

**12.3 Bioaccumulative potential**

**Calibrators**

No data available

**Controls**

No data available

**12.4 Mobility in soil**

**Calibrators**

No data available

**Controls**

No data available



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**12.5 Results of PBT and vPvB assessment**

**Calibrators**

No data available

**Controls**

No data available

**12.6 Other adverse effects**

**Calibrators**

No data available

**Controls**

No data available

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**SECTION 13: DISPOSAL CONSIDERATIONS**

**13.1 Waste treatment methods**

- Product : Special treatment as infectious material is mandatory in compliance with local regulations (disinfection and incineration). Can be disposed as waste water, when in compliance with local regulations.
- Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Do not re-use empty containers

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**SECTION 14: TRANSPORT INFORMATION**

**14.1 UN number**

Not regulated as a dangerous good

**14.2 UN proper shipping name**

Not regulated as a dangerous good

**14.3 Transport hazard class(es)**

Not regulated as a dangerous good



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**14.4 Packing group**

Not regulated as a dangerous good

**14.5 Environmental hazards**

Not regulated as a dangerous good

**14.6 Special precautions for user**

Remarks : Not dangerous goods in the meaning of ADR/RID, AND, IMDG-Code, ICAO/IATA-DGR

**14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Remarks : Not applicable

**SECTION 15: REGULATORY INFORMATION**

**15.1 Safety, health and environmental regulations/legislations specific for the substance or mixture**

Seveso III : Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.  
Not applicable

Water contaminating class (Germany) : WGK 1 slightly hazardous to water

**Calibrators**

REACH – Candidate List of Substances of Very High Concern for Authorisation (Article 59). : Not applicable

REACH – List of substances subject to authorisation (Annex XIV). : Not applicable

Regulation (EC) No 1005/2009 on substances that Deplete the ozone layer : Not applicable

Regulation (EC) No 850/2004 on persistent organic pollutants : Not applicable

Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals : Not applicable

REACH – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Methanol (Number on list 69)





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According to Regulation (EC) No. 1907/2006

**The components of the product are reported in the following inventories:**

DSL	:	This product contains the following components that are not on the Canadian DSL nor NDSL.  Urine from human origin
AICS	:	Not in compliance with the inventory
NZIoC	:	On the inventory, or in compliance with the inventory
ENCS	:	Not in compliance with the inventory
ISHL	:	Not in compliance with the inventory
KECI	:	Not in compliance with the inventory
PICCS	:	Not in compliance with the inventory
IECSC	:	Not in compliance with the inventory
TCSI	:	Not in compliance with the inventory
TSCA	:	Substance(s) not listed on TSCA inventory
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 0.1 %

**Labelling (Regulation (EC) No. 1272/2008)**

Not a hazardous substance or mixture

**Controls**

REACH – Candidate List of Substances of Very High Concern for Authorisation (Article 59).	:	Not applicable
REACH – List of substances subject to authorisation (Annex XIV).	:	Not applicable
Regulation (EC) No 1005/2009 on substances that Deplete the ozone layer	:	Not applicable
Regulation (EC) No 850/2004 on persistent organic pollutants	:	Not applicable
Regulation (EC) No 649/2012 of the European Parliament and the Council concerning the export and import of dangerous chemicals	:	Not applicable



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REACH – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Methanol (Number on list 69)

**The components of the product are reported in the following inventories:**

- DSL : This product contains the following components that are not on the Canadian DSL nor NDSL.  
Urine from human origin
- AICS : Not in compliance with the inventory
- NZIoC : On the inventory, or in compliance with the inventory
- ENCS : Not in compliance with the inventory
- ISHL : Not in compliance with the inventory
- KECI : Not in compliance with the inventory
- PICCS : Not in compliance with the inventory
- IECSC : Not in compliance with the inventory
- TCSI : Not in compliance with the inventory
- TSCA : Substance(s) not listed on TSCA inventory
  
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 0.1 %

**Labelling (Regulation (EC) No. 1272/2008)**

Not a hazardous substance or mixture

**15.2 Chemical safety assessment**

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

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**SECTION 16: OTHER INFORMATION****Full text of other abbreviations**

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Cooperation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

**Further Information**

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.