

MetaSystems Indigo GmbH

40225 Düsseldorf

Date printed 18.12.2018, Revision 17.12.2018

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SECTION 1: Identification of the substance/mixture and of the company/undertaking
1.1 Product identifier

Liquillizer

1.2 Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant uses

Analytics
Research and development

1.2.2 Uses advised against

None known.

1.3 Details of the supplier of the safety data sheet

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Address enquiries to

Technical information	info@metasystems-indigo.com
Safety Data Sheet	sdb@chemiebuero.de

1.4 Emergency telephone number

Company	+49-211-3805 7030
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SECTION 2: Hazards identification
2.1 Classification of the substance or mixture [REGULATION GHS]

No classification.

2.2 Label elements

The product does not require a hazard warning label in accordance with GHS-directives.

Hazard pictograms	none
Signal word	none
Hazard statements	none
Precautionary statements	none

2.3 Other hazards

Human health dangers	Frequent persistent contact with the skin can cause skin irritation.
Environmental hazards	Does not contain any PBT or vPvB substances.
Other hazards	Further hazards were not determined with the current level of knowledge.

This product is classified as non-hazardous in accordance to OSHA Standard 29 CFR 1910.1200.

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SECTION 3: Composition / Information on ingredients**Product-type:**

The product is a mixture.

Comment on component parts

No hazardous components to be mentioned.
All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

SECTION 4: First aid measures**4.1 Description of first aid measures****General information**

Change soaked clothing.

Inhalation

Ensure supply of fresh air.

Skin contact

When in contact with the skin, clean with soap and water.
Consult a doctor if skin irritation persists.

Eye contact

Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
If eye irritation persists: Get medical advice/attention.

Ingestion

Rinse out mouth and give plenty of water to drink.
Do not induce vomiting.
Seek medical advice.

4.2 Most important symptoms and effects, both acute and delayed

No information available.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Fire-fighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Product itself is non-combustible. Fire extinguishing method of surrounding areas must be considered.

Extinguishing media that must not be used

Full water jet

5.2 Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolysis products.

5.3 Advice for firefighters

Use self-contained breathing apparatus.

Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures**6.1 Personal precautions, protective equipment and emergency procedures**

Use personal protective clothing.
High risk of slipping due to leakage/spillage of product.

6.2 Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

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6.3 Methods and material for containment and cleaning up

Take up with absorbent material (e.g. general-purpose binder).
Dispose of absorbed material in accordance within the regulations.

6.4 Reference to other sections

See SECTION 8+13

SECTION 7: Handling and storage**7.1 Precautions for safe handling**

Avoid contact with eyes and skin. Use personal protective equipment.

Wash face and/or hands before break and end of work.
Do not eat, drink or smoke when using this product.
Take off contaminated clothing and wash before reuse.

7.2 Conditions for safe storage, including any incompatibilities

No special measures necessary.
Do not store together with food and animal food/diet.
Keep container tightly closed.

7.3 Specific end use(s)

See product use, SECTION 1.2

SECTION 8: Exposure controls / personal protection**8.1 Control parameters****Ingredients with occupational exposure limits to be monitored (US)**

not applicable

8.2 Exposure controls**Additional advice on system design**

Ensure adequate ventilation on workstation.
Measurement methods for taking workplace measurements must meet the performance requirements of DIN EN 482. For example, recommendations are given in the IFA's list of hazardous substances.

Eye protection

If there is a risk of splashing:
safety glasses (EN 166:2001)

Hand protection

The details concerned are recommendations. Please contact the glove supplier for further information.
0,7 mm Nitrile rubber, >480 min (EN 374-1/-2/-3).

Skin protection

light protective clothing

Other

Avoid contact with eyes and skin.

Respiratory protection

No special measures necessary.

Thermal hazards

See SECTION 7.

Delimitation and monitoring of the environmental exposition

Protect the environment by applying appropriate control measures to prevent or limit emissions.

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SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	liquid
Color	colourless
Odor	odourless
Odour threshold	not applicable
pH-value	9,0
pH-value [1%]	not determined
Boiling point [°C]	ca. 100
Flash point [°C]	not applicable
Flammability (solid, gas) [°C]	not applicable
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Oxidising properties	no
Vapour pressure/gas pressure [kPa]	not determined
Density [g/ml]	not determined
Bulk density [kg/m ³]	not applicable
Solubility in water	completely miscible
Partition coefficient [n-octanol/water]	not determined
Viscosity	not determined
Relative vapour density determined in air	not determined
Evaporation speed	not determined
Melting point [°C]	not determined
Autoignition temperature [°C]	not self-igniting
Decomposition temperature [°C]	not determined

9.2 Other information

none

SECTION 10: Stability and reactivity

10.1 Reactivity

See SECTION 10.3.

10.2 Chemical stability

Stable under recommended storage conditions.

10.3 Possibility of hazardous reactions

No hazardous reactions known.

10.4 Conditions to avoid

Warming

10.5 Incompatible materials

See SECTION 10.3.

10.6 Hazardous decomposition products

No hazardous decomposition products known.

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SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity****Serious eye damage/irritation** Based on the available information, the classification criteria are not fulfilled.**Skin corrosion/irritation** Based on the available information, the classification criteria are not fulfilled.**Respiratory or skin sensitisation** Based on the available information, the classification criteria are not fulfilled.**Specific target organ toxicity — single exposure** Based on the available information, the classification criteria are not fulfilled.**Specific target organ toxicity — repeated exposure** Based on the available information, the classification criteria are not fulfilled.**Mutagenicity** Based on the available information, the classification criteria are not fulfilled.**Reproduction toxicity** Based on the available information, the classification criteria are not fulfilled.**Carcinogenicity** Based on the available information, the classification criteria are not fulfilled.**Aspiration hazard** Based on the available information, the classification criteria are not fulfilled.**General remarks**

Toxicological data of complete product are not available.

SECTION 12: Ecological information**12.1 Toxicity****12.2 Persistence and degradability****Behaviour in environment compartments** No information available.**Behaviour in sewage plant** No information available.**Biological degradability** No information available.**12.3 Bioaccumulative potential**

No information available.

12.4 Mobility in soil

Spillages may penetrate the soil causing ground water contamination.

12.5 Results of PBT and vPvB assessment

Based on all available information not to be classified as PBT or vPvB respectively.

12.6 Other adverse effects

Do not discharge product unmonitored into the environment or into the drainage.

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SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Coordinate disposal with the disposal contractor/authorities if necessary.

Contaminated packaging

Packaging that cannot be cleaned should be disposed of as for product.

RCRA Hazard Class (40CFR 261)

Waste must be disposed of in accordance with federal, state and local environmental control regulations. Consult your local or regional authorities.

SECTION 14: Transport information**14.1 UN number**

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.2 UN proper shipping name

Transport by land according to ADR/RID NO DANGEROUS GOODS

Inland navigation (ADN) NO DANGEROUS GOODS

Marine transport in accordance with IMDG NOT CLASSIFIED AS "DANGEROUS GOODS"

Air transport in accordance with IATA NOT CLASSIFIED AS "DANGEROUS GOODS"

DOT Road Shipment Information (49 CFR) NOT CLASSIFIED AS "DANGEROUS GOODS"

14.3 Transport hazard class(es)

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

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14.4 Packing group

Transport by land according to ADR/RID not applicable

Inland navigation (ADN) not applicable

Marine transport in accordance with IMDG not applicable

Air transport in accordance with IATA not applicable

14.5 Environmental hazards

Transport by land according to ADR/RID no

Inland navigation (ADN) no

Marine transport in accordance with IMDG no

Air transport in accordance with IATA no

14.6 Special precautions for user

Relevant information under SECTION 6 to 8.

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

not applicable

SECTION 15: Regulatory information**US Regulations****National regulations**

29 CFR 1910.1200-HCS 2012, OSHA-PEL, ACGIH-TLV, NTP, IARC, SARA Title III, NFPA, TSCA, California - Prop. 65

- SARA, 302 This product does not contain any ingredients regulated under this list.

- SARA, 311 This product does not contain any ingredients regulated under this list.

- SARA, 313 This product does not contain any ingredients regulated under this list.

- CA Proposition 65 No components require labeling under California Proposition 65.

- TSCA All chemical substances in this material are included on or exempted from listing on the TSCA Inventory.

- FDA not applicable

American Conference of Governmental Industrial Hygienists - ACGIH A4: Not classifiable as a human carcinogen.

International Agency for Research on Cancer IARC: Gruppe 3: Not classifiable as to its carcinogenicity to humans.

Ingredients not listed.

HAP-VOC not applicable

Transport-regulations DOT-Classification, ADR (2017); IMDG-Code (2017, 38. Amdt.); IATA-DGR (2018).

Emergency Overview CAUTION
CAUSES EYE AND SKIN IRRITATION.

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HMIS Ratings

HEALTH	1	1 - Slight Hazard
FLAMMABILITY	0	0 - Minimal Hazard
PHYSICAL HAZARD	0	0 - Minimal Hazard
PERSONAL PROTECTION	B	B - Safety Glasses and Gloves

NFPA Ratings

0
1 0
IRR

TOP, FLAMMABILITY: 0 - Minimal Hazard

LEFT, HEALTH: 1 - Slight Hazard RIGHT, REACTIVITY: 0 - Minimal Hazard

BOTTOM, SPECIAL NOTICE: IRR - Irritant

Modified position

none

SECTION 16: Other information

16.1 Abbreviations and acronyms:

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
 RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
 ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
 ATE = acute toxicity estimate
 CAS = Chemical Abstracts Service
 CLP = Classification, Labelling and Packaging
 DMEL = Derived Minimum Effect Level
 DNEL = Derived No Effect Level
 EC50 = Median effective concentration
 ECB = European Chemicals Bureau
 EEC = European Economic Community
 EINECS = European Inventory of Existing Commercial Chemical Substances
 ELINCS = European List of Notified Chemical Substances
 GHS = Globally Harmonized System of Classification and Labelling of Chemicals
 IATA = International Air Transport Association
 IBC-Code = International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk
 IC50 = Inhibition concentration, 50%
 IMDG = International Maritime Code for Dangerous Goods
 IUCLID = International Uniform Chemical Information Database
 LC50 = Lethal concentration, 50%
 LD50 = Median lethal dose
 LC0 = lethal concentration, 0%
 LOAEL = lowest-observed-adverse-effect level
 MARPOL = International Convention for the Prevention of Marine Pollution from Ships
 NOAEL = No Observed Adverse Effect Level
 NOEC = No Observed Effect Concentration
 PBT = Persistent, Bioaccumulative and Toxic substance
 PNEC = Predicted No-Effect Concentration
 REACH = Registration, Evaluation, Authorisation and Restriction of Chemicals
 STP = Sewage Treatment Plant
 TLV@/TWA = Threshold limit value – time-weighted average
 TLV@STEL = Threshold limit value – short-time exposure limit
 VOC = Volatile Organic Compounds
 vPvB = very Persistent and very Bioaccumulative

16.2 Other information

Classification procedure

Modified position

none

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