Safety Data Sheet

Date prepared: March 25, 2015
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(Ver.4)

1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name	Urine Calibrator Set
Product Code	J10036
Company Name, Address	JOKOH CO., LTD. 731-1, Unane, Takatsu-ku, Kawasaki-shi, Kanagawa, 213-8588 Japan TEL: +81-44- 811-9211 FAX: +81-44-811-9209
Contact No.	Laboratory Division, Research & Department TEL: +81-44- 811-9211
Recommended usage	Use as standard solution for urine sample in our Electrolyte Analyzer.
Restrictions in use	Never use other instruments than JOKOH CO., LTD. designated instruments

2. SUMMARY OF HAZARDS

GHS Classification	Not applicable to GHS classification.
Other hazards not classified in GHS	No information

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Pure Substance or Mixture	Mixture
Component	Triethanolamine (1.0% or less) Chemical formula: $C_6H_{15}NO_3$ Reference Number in Gazetted List in Japan: (2)-308 Reference Number in Safety and Health Act in Japan: N/A CAS.No.: 102-71-6
	Only substances subject to laws and regulations are listed.
Impurities and Stabilizing additives	N/A

4. FIRST AND MEASURES

Inhalation	No chance of inhalation (aqueous solution)
Skin Contact	Wash the affected skin with water thoroughly
Eye Contact	Flush eyes with clean water for 15 minutes at least. Also, seek medical advice/attention if necessary.
Ingestion	Rinse with clean water or drink water/milk to spit it out. Seek medical attention if necessary.
Protection of First Aiders	Nothing in particular
Special precautions for physicians	Nothing in particular
Most Important Signs Symptom of acute and delayed	No Information

5. FIRE-FIGHTING MEASURES

Extinguishing Media	This product is nonflammable. In case of fire around the container, extinguishing media including water can be used.
Extinguishing Media Not to be Used	No information
Specific Hazards	No information
Special Firefighting Method	No information
Protection for firefighters	Extinguish from upwind, and avoid inhalation of vapors and smoke. Wear personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

Precautions for Human health	During work, wear protective equipment.
Precautions for Environmental	Be careful not to let the leaked product be discharged into rivers, etc., causing an impact on the environment.
Containment and Cleaning Method/Equipment	Nothing in particular
Recovery/Neutralization	The leaked liquid is received as much as possible, and the rest will be incinerated by absorbing cloth, rags, and the like. Not be recoverable liquid, wash away thoroughly diluted with plenty of water.
Measures of Secondary Accident Prevention	No information

7. PRECAUTION IN HANDLING AND STORAGE

Handling:

Technical Measures	Wear the appropriate protective equipment to avoid contact with eyes, skin, and clothing.
Precaution	Avoid accidental ingestion. Wash hands and face thoroughly after handling. Do not handle the container roughly by tipping over, dropping, or applying impact.
Precautions for Safety Handling Storage	Do not eat or drink when in use. Avoid contact with skin, eyes, and nose. Wash hands and face thoroughly after handling.
Contact Avoidance	Nothing in particular
Hygiene Measures	Wash hands thoroughly after handling.

Storage:

Safety Storage Condition	
Storage Condition	Containers should be kept out of direct sunlight and away from hot objects. Store so as not to fall or topple over.
Safety Container Packaging Material	No information
Banned substance for a mixture	No information

8. EXPOSURE CONTROLS AND PROTECTION MEASURES

Allowable Concentration	Not decided
Control Concentration	Not decided
Exposure Limit	Not decided
Facility Measures	Provide hand washing facilities nearby and mark their location.
Protective Equipment	
Respiratory Protection	Protective mask
Hand Protection	Protective gloves
Eye or Face Protection	Protective glasses
Skin and Body Protection	If necessary, protective boots, protective clothing, and rubber fronts

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Liquid
Physical Color	Clear and colorless
Physical Odor	Odorless
Melting Point/Freezing Point	Approx. 0 ℃ (aqueous solution)
Boiling Point, Initial Boiling Point, and Boiling Range	Approx. 100 ℃ (aqueous solution)
Flammability	Non-flammable (aqueous solution)
Lower and Upper Explosive Limits/Flammability Limits	Not applicable (aqueous solution)
Flash Point	Non-flammable (aqueous solution)
Spontaneous Ignition Point	Not applicable (aqueous solution)
Resolution Temperature	Not applicable (aqueous solution)
pH	7.4±0.1
Kinematic Viscosity Rate	No data (aqueous solution)
Evaporation Rate	No data (aqueous solution)
Solubility	No data (aqueous solution, dissolved by water)

n-Octanol/Water Partition Coefficient	No data (aqueous solution)
Vapor Pressure	No data (aqueous solution)
Vapor Density or Relative Vapor Density	1.00～1.10 g/cm^3 (25℃)
Relative Gas Density	No data (aqueous solution)
Particle characteristics	Not applicable (aqueous solution)

10. STABILITY AND REACTIVITY

Chemical Stability	Stable under normal use conditions
Reactivity	Non-reactive under normal use conditions
Hazardous Reactivity:	
Hazardous Polymerization	No hazardous polymerization reactions
Conditions to avoid	No data
Hazardous substance mixtures	Nothing in particular
Hazardous decomposition products	No data

11. TOXICOLOGICAL INFORMATION

Acute Toxicity:

Oral

Based on the evaluation based on the bridging principle, LD50>5000mg/kg does not apply to the category.

Reference) Triethanolamine

Not classified based on Rat LD50 values: 8,680 mg/kg, 9,110 mg/kg (ACGIH (7th, 2001), PATTY (6th, 2012)), 8,000 mg/kg (PATTY (6th, 2012)), 8,000, 9,000 mg/kg and 4,200-11,300 mg/kg (NTP TR 518 (2004), SIDS (2001)).

Transdermal

Based on the evaluation in accordance with the bridging principle, LD50 >5000 mg/kg is not classifiable. However, some components have no data and cannot be classified.

Reference) Triethanolamine

Not classified based on a rabbit dermal LD50 value > 2,000 mg/kg (SIDS (2001)) and a 24-hour dermal application study of 2 g/kg on rabbit skin with no deaths observed (NTP TR 518 (2004))

Inhalation: Vapor

The classification is not applicable due to containing a component for which GHS classification results have not been published.

Inhalation: Dust, Mist

The evaluation based on the bridging principle resulted in the classification not applicable, but there are components for which no data are available, so they cannot be classified.

Reference) Triethanolamine

The classification is not possible due to lack of data

Skin Corrosion/ Irritation

The evaluation based on the bridging principle resulted in the classification not applicable, but there are components for which no data are available, so they cannot be classified.

Reference) Triethanolamine

Based on the descriptions in ACGIH (7th, 2001), SIDS (2001), IARC 77 (2000), and NTP TR 518 (2004) that "skin irritation was observed in humans due to exposure to high concentrations or repeated exposure," it is classified as class 2.

Severe Eye Damage/ Eye Irritation

The evaluation based on the bridging principle resulted in the classification not applicable, but there are components for which no data are available, so they cannot be classified.

Reference) Triethanolamine

ACGIH (7th, 2001), PATTY (6th, 2012), and NTP TR 518 (2004) state, "Irritation was observed in an eye irritation test using rabbits, and complete recovery was observed after 14 days.

Respiratory or Skin Sensitization

Classification not possible due to lack of data for all components.

(Reference) Triethanolamine

Classification not possible due to lack of data

Germ cell Mutagenicity

The results of the evaluation based on the bridging principle for the components for which data were obtained are not applicable to the classification, but cannot be classified because they include ingredients for which no data are available.

Carcinogenicity	Same as above.
Reproductive Toxicity	Same as above.
Specific Target Organ/Systemic Toxicity (Single Exposure)	The classification is not applicable due to the results of the evaluation based on the bridging principle for components for which data is obtained are not applicable.
Specific Target Organ/Systemic Toxicity (Repeated Exposure)	The classification is not applicable due to the results of the evaluation based on the bridging principle for components for which data is obtained are not applicable.

Aspiration Hazard	Classification not possible due to lack of data.

12. ENVIRONMENTAL HAZARD

Ecotoxicity	
Acute Hazard to the Aquatic Environment	The classification is not applicable due to the results of the evaluation based on the bridging principle for components for which data is obtained are not applicable.
Chronic Hazard to the Aquatic Environment	Same as above.
The toxicity to other creatures	No data
Residual property and Degradability	No data
Creature accumulation characteristics	No data
Mobility in the soil	No data
Hazardousness to the ozone layer	The classification is not possible due to not containing any components listed in the Annex of the Montreal Protocol.

13. DISPOSAL CONSIDERATIONS

Residual Waste	Discharge with diluting in a large amount of water.
Contaminated containers and packaging	Containers should be cleaned and recycled or properly disposed of in accordance with relevant regulations and local government standards. When disposing of empty containers, completely remove residues retained in the containers.

14. TRANSPORT CONSIDERATIONS

ADR/RID(Land)		**IMDG(Sea)**		**IATA(Air)**	
UN No.	N/A	**UN No.**	N/A	**UN No.**	N/A
Product Name	N/A	**Product Name**	N/A	**ProductName**	N/A
UN Class	N/A	**UN Class**	N/A	**UN Class**	N/A
Sub Hazard	N/A	**Sub Hazard**	N/A	**Sub Hazard**	N/A
Label	N/A	**Container Class**	N/A	**Container Class**	N/A
Container Class	N/A	**EmS No.**	N/A		
ERG Code.	N/A	**Sea Pollution Substance**	N/A		

15. APPLICABLE LAWS AND REGULATIONS

<u>International Inventory</u>	
REACH (SVHC)	N/A
TSCA, Chapter 6	N/A
Montreal Protocol	N/A
Stockholm Convention on Persistent (POPs)	N/A
Rotterdam Convention on the Prior (PIC)	N/A
<u>Domestic Low</u>	
Industrial Safety and Health Act	Hazardous and toxic substances of which names, etc., should be notified (Article 57-2 of the Law and Article 18-2 of the Enforcement Order): Triethanolamine (381 in Appended Table 9) 2): Triethanolamine (381 in Appended Table 9)
Law concerning Pollutant Release and Transfer Register (PRTR Low)	N/A
Poisonous and Deleterious Substances Control Act	N/A
Fire Services Act	N/A
Road Act	N/A
Ship Safety Act	N/A
Aviation Act	N/A
Water Pollution Control Act	N/A
Marine Pollution Control Act	N/A
Air Pollution Control Act	N/A
Law Concerning the Evaluation of Chemical Substances and Regulation of Their Manufacture, etc.	N/A

16. OTHER INFORMATION

Reference cited

1) Hazard communication of chemicals based on GHS-Labeling and Safety Data Sheet (SDS), JIS Z 7253:2019
2) Globally Harmonized System of Classification and Labeling of Chemicals (Revision ver. 2.0)
3) Chemical substance management control support project commissioned by the Ministry of Health, Labor and Welfare and Ministry of the Environment, 2008, 2009

Revision No.	Ver. 4
Meaning of abbreviations, acronyms in SDS	No information

Disclaimer

This SDS is following JIS Z 7253:2019. The statements are based on normal handling. The contents are based on the latest information at the revision date, but this does not mean all the information is covered. Therefore, in case we obtain new information, there is a possibility of addition and correction. In all the products, there may be a possibility of having an unknown hazard, therefore, please pay attention when you treat this SDS.