

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

YSI 1531-2355-2356-2367-2368-2714-2715-2716-2801 Glucose Standards - all concentration

Registration number

of the mixture

Synonyms

1531 Glucose Standard 50 mmol/L * 2355 Glucose Standard 200 mg/dL * 2356 Glucose Standard 500 mg/dL * 2367 Glucose Standard 10 mmol/L * 2368 Glucose Standard 25 mmol/L * 2714 Glucose Standard 100 mg/dL * 2715 Glucose Standard 400 mg/dL * 2716 Glucose Standard 700

mg/dL * 2801 Glucose Standard 50 mg/dL

YSI 1531-2355-2356-2367-2368-2714-2715-2716-2801 **Product code**

Issue date 20-March-2015

01 Version number **Revision date** Supersedes date

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

Analysis Standard/Reagent Identified uses

Uses advised against None known. 1.3. Details of the supplier of the safety data sheet

Supplier

Company name YSI, a Xylem brand

1700/1725 Brannum Lane Address

Yellow Springs, Ohio 45387

United States

Division

Telephone (937) 767-7241

MSDSinfo@ysi.com e-mail

Not available. Contact person

1.4. Emergency telephone

number

CHEMTREC (US/Canada) (800) 424-9300

CHEMTREC (International) 011 703-527-3887

(Collect calls accepted)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The mixture has been assessed and/or tested for its physical, health and environmental hazards and the following classification applies.

Classification according to Directive 67/548/EEC or 1999/45/EC as amended

This preparation does not meet the criteria for classification according to Directive 1999/45/EC as amended.

Classification according to Regulation (EC) No 1272/2008 as amended

This mixture does not meet the criteria for classification according to Regulation (EC) 1272/2008 as amended.

Hazard summary

Physical hazards Not classified for physical hazards.

Health hazards Not classified for health hazards. However, occupational exposure to the mixture or substance(s)

may cause adverse health effects.

Environmental hazards Not classified for hazards to the environment. Specific hazards No hazards resulting from the material as supplied. Main symptoms Direct contact with eyes may cause temporary irritation.

2.2. Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

None. Hazard pictograms None Signal word

The mixture does not meet the criteria for classification. **Hazard statements**

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Precautionary statements

Prevention Observe good industrial hygiene practices.

Wash hands after handling. Response

Storage Store away from incompatible materials.

Dispose of waste and residues in accordance with local authority requirements. Disposal

Supplemental label information Not applicable.

Not a PBT or vPvB substance or mixture. 2.3. Other hazards

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

Chemical name		%	CAS-No. / EC No.	REACH Registration No.	INDEX No.	Notes
Glucose		<1	50-99-7 200-075-1	-	-	
Classification:	DSD:	-				
	CLP:	-				
EDTA		<1	25102-12-9	-	-	
Classification:	DSD:	Xn;R20				
	CLP:	Acute Tox. 4;H3	332			
Sodium Benzoate		<1	532-32-1 208-534-8	-	-	
Classification:	DSD:	Xi;R36				
	CLP:	Eye Irrit. 2;H319	9			
Water		>97	7732-18-5 231-791-2	-	-	
Classification:	DSD:	-				
	CLP:	-				

SECTION 4: First aid measures

Ensure that medical personnel are aware of the material(s) involved, and take precautions to **General information**

protect themselves.

4.1. Description of first aid measures

Inhalation Move to fresh air. Call a physician if symptoms develop or persist.

Wash off with soap and water. Get medical attention if irritation develops and persists. Skin contact

Eye contact Rinse with water. Get medical attention if irritation develops and persists.

Rinse mouth. Get medical attention if symptoms occur. Ingestion Direct contact with eyes may cause temporary irritation.

4.2. Most important symptoms and effects, both acute and

delayed

4.3. Indication of any Treat symptomatically.

immediate medical attention and special treatment needed

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

media

Do not use water jet as an extinguisher, as this will spread the fire.

Unsuitable extinguishing media

5.2. Special hazards arising from the substance or mixture During fire, gases hazardous to health may be formed.

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5.3. Advice for firefighters

Special protective equipment for firefighters Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Special fire fighting

procedures

Move containers from fire area if you can do so without risk.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Wear appropriate protective equipment and clothing during clean-up.

wearing appropriate protective clothing.

Prevent further leakage or spillage if safe to do so. Do not contaminate water. 6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up

For emergency responders

Large Spills: Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Absorb in vermiculite, dry sand or earth and place into containers. Following product

Keep unnecessary personnel away. Do not touch damaged containers or spilled material unless

recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to

remove residual contamination.

Never return spills in original containers for re-use.

6.4. Reference to other sections

For personal protection, see section 8. For waste disposal, see section 13 of the SDS.

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Observe good industrial hygiene practices.

7.2. Conditions for safe storage, including any

incompatibilities

Store away from incompatible materials (See Section 10).

7.3. Specific end use(s) Analysis Standard/Reagent

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

No exposure limits noted for ingredient(s).

Biological limit values

No biological exposure limits noted for the ingredient(s).

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL) Not available. Not available

Predicted no effect concentrations (PNECs)

8.2. Exposure controls

Appropriate engineering controls

Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

General information Personal protection equipment should be chosen according to the CEN standards and in

discussion with the supplier of the personal protective equipment.

Eye/face protection If contact is likely, safety glasses with side shields are recommended.

Skin protection

- Hand protection For prolonged or repeated skin contact use suitable protective gloves.

- Other Wear suitable protective clothing.

Respiratory protection In case of insufficient ventilation wear suitable respiratory equipment. Thermal hazards Wear appropriate thermal protective clothing, when necessary.

Hygiene measures Always observe good personal hygiene measures, such as washing after handling the material

and before eating, drinking, and/or smoking. Routinely wash work clothing and protective

equipment to remove contaminants.

Environmental exposure

controls

For good industrial practise contain spills and prevent releases and observe national regulations

on emissions.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid.
Form Liquid.

Colour Clear. Colourless.

Odour Odourless.

Odour threshold Not available.

pH 6,5 - 7,5

Melting point/freezing point Not available.

Initial boiling point and boiling 100 °C (212 °F)

range

Flash point Not available.

Evaporation rate Not available.

Flammability (solid, gas) Not available.

Upper/lower flammability or explosive limits

Flammability limit - lower

Not available.

(%)

Flammability limit - upper

Not available.

(%)

Vapour pressure equivalent to water
Vapour density =water vapor
Relative density 1 (Water=1)

Solubility(ies) Infinitely soluble in water

Partition coefficient

(n-octanol/water)

Not available.

Auto-ignition temperatureNot available.Decomposition temperatureNot available.ViscosityNot available.Explosive propertiesNot available.Oxidizing propertiesNot available.

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

10.1. ReactivityThe product is stable and non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability Material is stable under normal conditions.

10.3. Possibility of hazardous

reactions

No dangerous reaction known under conditions of normal use.

10.4. Conditions to avoidContact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous No ha

decomposition products

No hazardous decomposition products are known.

SECTION 11: Toxicological information

General information Occupational exposure to the substance or mixture may cause adverse effects.

Information on likely routes of exposure

Inhalation No adverse effects due to inhalation are expected. High mist concentrations may cause irritation

of respiratory tract.

Skin contact No adverse effects due to skin contact are expected. Contact with skin may cause slight skin

irritation.

Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Expected to be a low ingestion hazard. Ingestion of large amounts may produce gastrointestinal

disturbances including irritation, nausea, and diarrhoea.

Symptoms Direct contact with eyes may cause temporary irritation.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Skin corrosion/irritation

Serious eye damage/eye

Prolonged skin contact may cause temporary irritation. Direct contact with eyes may cause temporary irritation.

irritation

Respiratory sensitisation

Not a respiratory sensitiser.

Skin sensitisation T

This product is not expected to cause skin sensitisation.

Germ cell mutagenicityNo data available to indicate product or any components present at greater than 0.1% are

mutagenic or genotoxic.

Carcinogenicity Not classifiable as to carcinogenicity to humans.

Reproductive toxicityThis product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity -

single exposure

Not classified.

Specific target organ toxicity -

repeated exposure

Not classified.

Aspiration hazard

Due to lack of data the classification is not possible.

Not available.

Mixture versus substance

information

Other information This product has no known adverse effect on human health.

SECTION 12: Ecological information

12.1. Toxicity The product is not classified as environmentally hazardous. However, this does not exclude the

possibility that large or frequent spills can have a harmful or damaging effect on the environment.

12.2. Persistence andNo data is available on the degradability of this product.

degradability

12.3. Bioaccumulative potential No data available for this product.

Partition coefficient Not available.

n-octanol/water (log Kow)

Bioconcentration factor (BCF) Not available

12.4. Mobility in soil This product is water soluble and may disperse in soil.

12.5. Results of PBT

Not a PBT or vPvB substance or mixture.

and vPvB assessment

12.6. Other adverse effects No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation

potential, endocrine disruption, global warming potential) are expected from this component.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Residual waste Dispose of in accordance with local regulations. Empty containers or liners may retain some

product residues. This material and its container must be disposed of in a safe manner (see:

Disposal instructions).

Contaminated packaging

Empty containers should be taken to an approved waste handling site for recycling or disposal.

EU waste code

The Waste code should be assigned in discussion between the user, the producer and the waste

disposal company.

Disposal methods/information Collect and reclaim or dispose in sealed containers at licensed waste disposal site.

SECTION 14: Transport information

ADR

Not regulated as dangerous goods.

RID

Not regulated as dangerous goods.

ADN

Not regulated as dangerous goods.

IATA

Not regulated as dangerous goods.

IMDG

Not regulated as dangerous goods.

14.7. Transport in bulk Not applicable.

according to Annex II of MARPOL 73/78 and the IBC

Code

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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

EU regulations

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex I

Not listed.

Regulation (EC) No. 1005/2009 on substances that deplete the ozone layer, Annex II

Not listed.

Regulation (EC) No. 850/2004 On persistent organic pollutants, Annex I as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 1 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 2 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex I, part 3 as amended

Not listed.

Regulation (EC) No. 689/2008 concerning the export and import of dangerous chemicals, Annex V as amended

Not listed.

Regulation (EC) No. 166/2006 Annex II Pollutant Release and Transfer Registry

Not listed.

Regulation (EC) No. 1907/2006, REACH Article 59(10) Candidate List as currently published by ECHA

Not listed.

Authorisations

Regulation (EC) No. 1907/2006, REACH Annex XIV Substances subject to authorisation, as amended

Not listed.

Restrictions on use

Regulation (EC) No. 1907/2006, REACH Annex XVII Substances subject to restriction on marketing and use as amended

Not listed.

Directive 2004/37/EC: on the protection of workers from the risks related to exposure to carcinogens and mutagens at work

Not listed.

Directive 92/85/EEC: on the safety and health of pregnant workers and workers who have recently given birth or are breastfeeding

Not listed.

Other EU regulations

Directive 96/82/EC (Seveso II) on the control of major-accident hazards involving dangerous substances

Not listed

Directive 94/33/EC on the protection of young people at work

Not listed.

Other regulations The product is classified and labelled in accordance with EC directives or respective national laws.

This Safety Data Sheet complies with the requirements of Regulation (EC) No 1907/2006.

National regulations Follow national regulation for work with chemical agents.

15.2. Chemical safety

No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations Not available.

References Not available.

Information on evaluation method leading to the classification of mixture

The classification for health and environmental hazards is derived by a combination of calculation

methods and test data, if available.

Full text of any statements or R-phrases and H-statements

under Sections 2 to 15 R20 Harmful by inhalation.

R36 Irritating to eyes.

H319 Causes serious eye irritation.

H332 Harmful if inhaled.

Training information Follow training instructions when handling this material.

DisclaimerThe information in the sheet was written based on the best knowledge and experience currently

available.