

SAFETY DATA SHEET

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

1.1. Product identifier

Trade name or designation

BD Vacutainer® CTAD Tubes

of the mixture

Registration number

Synonyms None.

 Product code
 367562, 367599, 367947

 Issue date
 07-September-2015

Version number 01
Revision date Supersedes date -

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

Identified uses Blood collection (In-Vitro Diagnostic) device

Uses advised against None known.

1.3. Details of the supplier of the safety data sheet

Supplier

Company name Becton, Dickinson and Company

Address Belliver Industrial Estate

Belliver Way, Roborough, Plymouth, PL6 7BP, United Kingdom

Telephone +44 (0) 1752 701281

Contact person Not available.

e-mail pas_tech_services@bd.com

1.4. Emergency telephone Chemtrec EU 70

number

Chemtrec EU 703-527-3887 US 1-800-424-9300

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not regarded as a health or environmental hazard under current legislation. Low hazard for

recommended handling by trained personnel.

2.2. Label elements

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

Hazard pictograms None.

Signal word None.

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

Precautionary statements

Prevention Observe good industrial hygiene practices.

Response Wash hands after handling.

Storage Store away from incompatible materials.

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

Supplemental label information None.

2.3. Other hazardsNot a PBT or vPvB substance or mixture.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

General information

CAS-No. / EC **REACH Registration No.** INDEX No. **Chemical name** % **Notes** No. Theophylline 58-55-9 < 1 200-385-7 Classification: Acute Tox. 3:H301

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume. Components not listed are either non-hazardous or are below reportable

limits

SECTION 4: First aid measures

General information No specific first aid measures noted.

4.1. Description of first aid measures

Under normal conditions of intended use, this material is not expected to be an inhalation hazard. Inhalation

Skin contact Wash skin with soap and water. Get medical attention if irritation persists after washing.

Eye contact Flush eyes with water as a precaution. If irritation occurs, get medical assistance. Rinse mouth. Get medical attention if any discomfort occurs. Ingestion

4.2. Most important symptoms and effects, both acute and

delaved

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, redness, swelling, and blurred vision.

4.3. Indication of any immediate medical attention

and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

General fire hazards No unusual fire or explosion hazards noted.

5.1. Extinguishing media

Suitable extinguishing

media

Use fire-extinguishing media appropriate for surrounding materials.

Unsuitable extinguishing

media

None known.

5.2. Special hazards arising from the substance or mixture By heating and fire, harmful vapours/gases may be formed.

5.3. Advice for firefighters

Special protective

equipment for firefighters

Special fire fighting

procedures

Selection of respiratory protection for firefighting: follow the general fire precautions indicated in the workplace.

Use standard firefighting procedures and consider the hazards of other involved materials.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency

personnel

Avoid contact with eyes and prolonged skin contact.

Use personal protection recommended in Section 8 of the SDS. For emergency responders Environmental manager must be informed of all major spillages. 6.2. Environmental precautions

6.3. Methods and material for containment and cleaning up Wipe up spilled material and place in a suitable container for disposal. Following product recovery,

flush area with water.

6.4. Reference to other

sections

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

SECTION 7: Handling and storage

7.1. Precautions for safe

handling

Avoid contact with eyes and prolonged skin contact. Observe good laboratory hygiene practices.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, dry, well-ventilated place. Keep container closed. Store away from incompatible

materials.

Blood collection (In-Vitro Diagnostic) device. 7.3. Specific end use(s)

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

No exposure limits noted for ingredient(s). Occupational exposure limits

No biological exposure limits noted for the ingredient(s). **Biological limit values**

Recommended monitoring

procedures

Follow standard monitoring procedures.

Derived no-effect level (DNEL)

Not available.

Predicted no effect concentrations (PNECs)

Not available.

Exposure guidelines

No exposure limits noted for ingredient(s).

8.2. Exposure controls

Appropriate engineering

No particular ventilation requirements.

controls

Individual protection measures, such as personal protective equipment

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

discussion with the supplier of the personal protective equipment.

Eye/face protection Risk of contact: Wear approved safety goggles.

Skin protection

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

recommended. Suitable gloves can be recommended by the glove supplier.

- Other No protection is ordinarily required under normal conditions of use.

Respiratory protection Under normal conditions, respirator is not normally required.

Thermal hazards None.

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

Environmental manager must be informed of all major spillages.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

Physical state Liquid. **Form** Liquid. Yellow. Colour Odour Odourless. **Odour threshold** Not applicable. Not available. Melting point/freezing point Not available. Initial boiling point and boiling Not available.

range

Not applicable. Flash point Not available. **Evaporation rate** Not applicable. Flammability (solid, gas) Upper/lower flammability or explosive limits

Flammability limit - lower

Not applicable.

(%)

Flammability limit - upper

Not applicable.

Not available. Vapour pressure Vapour density Not available. Relative density Not available.

Solubility(ies) Completely soluble in water.

Partition coefficient Not available

(n-octanol/water)

Not applicable. **Auto-ignition temperature Decomposition temperature** Not available. Not available. **Viscosity Explosive properties** Not explosive.

Not oxidising. **Oxidizing properties**

9.2. Other information No relevant additional information available.

SECTION 10: Stability and reactivity

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

10.2. Chemical stability Stable at normal conditions.

10.3. Possibility of hazardous

reactions

Will not occur.

10.4. Conditions to avoid Contact with incompatible materials.

10.5. Incompatible materials Strong oxidising agents.

10.6. Hazardous None expected under normal conditions of use.

decomposition products

SECTION 11: Toxicological information

General information Under normal conditions of intended use, this material does not pose a risk to health.

Information on likely routes of exposure

Inhalation Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Prolonged contact may cause dryness of the skin. Skin contact Eye contact Direct contact with eyes may cause temporary irritation.

Ingestion Ingestion may cause irritation and malaise.

Direct contact with eyes may cause temporary irritation. Symptoms may include stinging, tearing, **Symptoms**

redness, swelling, and blurred vision.

11.1. Information on toxicological effects

Acute toxicity Not expected to be acutely toxic.

Components **Species Test results**

Theophylline (CAS 58-55-9)

Acute

Oral

LD50 Rat 272 mg/kg

Skin corrosion/irritation Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Serious eye damage/eye

irritation

Respiratory sensitisation Based on available data, the classification criteria are not met. Skin sensitisation Based on available data, the classification criteria are not met. Germ cell mutagenicity Based on available data, the classification criteria are not met.

Carcinogenicity Based on available data, the classification criteria are not met.

IARC Monographs. Overall Evaluation of Carcinogenicity

Theophylline (CAS 58-55-9) 3 Not classifiable as to carcinogenicity to humans.

Reproductive toxicity Based on available data, the classification criteria are not met.

Specific target organ toxicity single exposure

Based on available data, the classification criteria are not met.

Specific target organ toxicity repeated exposure

Based on available data, the classification criteria are not met.

Based on available data, the classification criteria are not met. **Aspiration hazard**

Mixture versus substance

information

None known.

No additional adverse health effects noted. Other information

SECTION 12: Ecological information

The product components are not classified as environmentally hazardous. However, this does not 12.1. Toxicity

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

environment.

12.2. Persistence and

degradability

No data available.

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water (log Kow)

Theophylline (CAS 58-55-9) -0.02

Bioconcentration factor (BCF) Not available.

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

Mobility in general No data available.

12.5. Results of PBT

and vPvB assessment

Not a PBT or vPvB substance or mixture.

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 waste and residues in accordance with local authority requirements.

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

EU waste code 16 03 04

Waste codes should be assigned by the user based on the application for which the product was

used.

Disposal methods/information Dispose in accordance with all applicable regulations. Do not discharge into drains, water courses

or onto the ground.

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

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 and II, as amended

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, as amended

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 authorization, 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

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

Not listed

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

Not listed.

Other EU regulations

Directive 2012/18/EU on major accident hazards involving dangerous substances

Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work Not listed.

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

Not listed.

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

product does not need to be labelled in accordance with EC directives or respective national laws.

National regulations 15.2. Chemical safety

Follow national regulation for work with chemical agents. No Chemical Safety Assessment has been carried out.

assessment

SECTION 16: Other information

List of abbreviations

DNEL: Derived No-Effect Level.

PNEC: Predicted No-Effect Concentration. PBT: Persistent, bioaccumulative and toxic.

LD50: Lethal Dose, 50%.

References

ACGIH: American Conference of Governmental and Industrial Hygienists. US. IARC Monographs on Occupational Exposures to Chemical Agents

National Toxicology Program (NTP) Report on Carcinogens

Information on evaluation method leading to the classification of mixture

The mixture is classified based on test data for physical hazards. The classification for health and environmental hazards is derived by a combination of calculation methods and test data, if

available. For details, refer to Sections 9, 11 and 12.

Full text of any H-statements not written out in full under

Sections 2 to 15

H301 Toxic if swallowed.

Training information

Follow training instructions when handling this material.

Disclaimer

To the best of our knowledge, the information contained herein is accurate. However, neither BD nor any of its subsidiaries assumes any liability whatsoever for completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.