

Safety Data Sheet

TECO

In accordance with 1907/2006/EG annex II and 1272/2008

(All references to EU Regulations and directives are abbreviated into only the numeric term)

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

1.1. Product identifier

Trade name	IBS Buffer
Article number	A0590-125

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

Identified uses	Laboratory chemicals
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1.3. Details of the supplier of the safety data sheet

Company	TECO Medical Instruments Production + Trading GmbH Dieselstr. 1, 84088 Neufahrn i.NB, Germany
Telephone	+49 8773 707 80-0
E-mail	info@teco-gmbh.com

1.4. Emergency telephone number

Poisoning emergency number Munich: 089 19240 or 112.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS Classification

2.2. Label elements

Hazard pictogram



Signal word

Danger

Hazard statement

H305	May be harmful if swallowed and enters airways
H316	Causes mild skin irritation
H317	May cause an allergic skin reaction
H320	Causes eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
Precautionary statements	
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P264	Wash hands thoroughly after handling
P285	In case of inadequate ventilation wear respiratory protection
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
P304 + P341	IF INHALED: If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing
P331	Do NOT induce vomiting

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P332 + P313	If skin irritation occurs: get medical advice/attention
P337 + P313	If eye irritation persists: get medical advice/attention
P342 + P311	If experiencing respiratory symptom: call a POISON CENTER or doctor/physician

2.3. Other hazards

Potential Health Effects

Inhalation:	Prolonged exposure may result in dizziness and general weakness
Skin:	Prolonged and/or repeated contact may cause irritation and/or dermatitis
Eyes:	May cause eye irritation
Ingestion:	May cause irritation of the digestive tract
Chronic:	No information found

SECTION 3: Composition/information on ingredients

3.1. Substance

See section 1.1. Product identifier.

3.2. Mixtures

Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

CAS#	Chemical Name	Percent	EINECS
6923-01-9	Imidazole	<1%	Not available
26628-22-8	Sodium Azide	<1%	247-852-1

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally

In case of concern, or if symptoms occur, call a doctor/physician.

Upon breathing in

Move to fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Seek medical attention immediately.

Upon eye contact

Immediately flush with plenty of water for at least 15 minutes occasionally lifting the upper and lower eyelids. Seek medical attention immediately.

Upon skin contact

Immediately flush with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. If irritation develops or persists, seek medical attention.

Upon ingestion

If victim is conscious and alert, give 2-4 cupful of milk or water. Never give anything by mouth to an unconscious person. Seek medical attention.

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

No further relevant information available.

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

Symptomatic treatment.

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SECTION 5: Firefighting measures

5.1. General

Wear self-contained breathing apparatus in pressure-demand. MSHA/NIOSH (approved or equivalent) and full protective gear.

5.2. Extinguishing media

Use water spray, dry chemical, carbon dioxide or chemical foam.

5.3. Autoignition Temperature

Not applicable

5.4. Flash Point: Lower Limit (%)

Not available

5.5. Flash Point: Upper Limit (%)

Not available

5.6. Fire and explosion hazards

Not applicable

SECTION 6: Accidental release measures

6.1. General

Use proper personal protective equipment as indicated in section 8.

6.2. Spills/Leaks

Vacuum or sweep material and place into suitable disposable container. Clean up spills immediately observing precautions in section 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Avoid contact with skin and eyes. Avoid ingestion and inhalation.

7.2. Conditions for safe storage, including any incompatibilities

Store 2-8°C in the original container and protect from sunlight. Keep container closed when not in use.

7.3. Specific end use(s)

See identified uses in Section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Engineering controls

Good general ventilation should be sufficient to control airborne levels. Facilities storing or utilizing this material should be equipped with an eyewash facility and safety shower.

8.2. Exposure limits

Chemical Name	ASGIH	NIOSH	OSHA
Sodium Azide	0.29 mg/m ³ Ceiling (as NaN ₃) 0.11 ppm Ceiling (vapour, as hydrazoic acid)	0.1 ppm Ceiling (as HN ₃); 0.3 mg/m ³ Ceiling as NaN ₃	Not on this list
Imidazole	Not on this list	Not on this list	Not on this list

8.3. Eye/Face protection

Wear appropriate protective eyeglasses or safety goggles to prevent eye exposure.

8.4. Skin protection

Wear appropriate clothing and gloves to prevent skin exposure.

8.5. Respiratory protection

If exposure limits are exceeded or if irritation or other symptoms are experienced follow the OSHA respirator regulations found in 29 CFR 1920.134 or European Standard EN 149.

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8.6. Other/General Protection

Follow general laboratory safety procedures.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

(a) Physical state	Liquid
(b) Colour	Form: liquid
(c) Odour	Clear
(d) pH	Odorless
(e) Vapour pressure	7.2 – 7.6
(f) Vapour density	Not indicated
(g) Evaporation Rate	Not indicated
(h) Viscosity	Not indicated
(i) Boiling point	Not indicated
(j) Melting point	Not indicated
(k) Solubility in water	Soluble in water
(l) Density	Not indicated
(m) Molecular formula	Not applicable
(n) Molecular weight	Not indicated

9.2. Other information

9.2.1. Information with regard to physical hazard classes

Not indicated

9.2.2. Other safety characteristics

Not indicated

SECTION 10: Stability and reactivity

10.1. Stability

Stable under normal temperatures and pressures.

10.2. Conditions to avoid

Incompatible materials, dust generation.

10.3. Incompatibilities

Strong oxidants, transition metals.

10.4. Hazardous decomposition products

No data available.

10.5. Hazardous Polymerization

Has not been reported.

SECTION 11: Toxicological information

	Sodium Azide	Imidazole
CAS#	26628-22-8	6923-01-9
RTECS	VY8050000	Not available
LD50/LC50	Oral-rat-27 mg/kg Dermal-rabbit 20 mg/kg	Inhalation, mouse: LC50 = 1108 ppm/1H Inhalation, mouse: LC50 = 20487 mg/m ³ /5M Inhalation, mouse: LC50 = 3940 mg/m ³ /30M Inhalation, mouse: LC50 = 8300 mg/m ³ /30M Inhalation, rat: LC50 = 3124 ppm/1H Inhalation, rat: LC50 = 60938 mg/m ³ /5M Inhalation, rat: LC50 = 7004 mg/m ³ /30M Inhalation, rat: LC50 = 45000 mg/m ³ /5M

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		Inhalation, rat: LC50 = 8300 mg/m ³ /30M Oral, rabbit: LD50 = 900 mg/kg
Carcinogenicity	Not listed as a carcinogen by IARC, OSHA or NTP	Not listed as a carcinogen by IARC, OSHA or NTP
Epidemiology	Rabbit- mild skin irritation-24h Rabbit- severe eye irritation	No information available
Teratogenicity	No information available	No information available
Reproductive	No information available	No information available
Mutagenicity	No information available	No information available
Neurotoxicity	No information available	No information available
Other	No information available	No information available
Note: The health effects above are based on an extrapolation of the data on the pure product ingredient. To the best of our knowledge, no health effects have been identified for the product mixture under normal working conditions.		

SECTION 12: Ecological information

No ecotoxicological data available on the product. Sodium Azide is toxic to fish (0.98-8 mg/L and plankton 5-14 mg/L). Use in accordance with good laboratory practice. Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is classified as toxic and harmful (azides).

Dispose of waste product, unused product and contaminated product in compliance with federal, state and local regulations.

If unsure of the applicable requirements, contact the authorities for information.

It is the responsibility of the user to classify the waste correctly before disposal.

RCRA P series Wastes: None of the components are on this list.

RCRA U series Wastes: None of the components are on this list.

SECTION 14: Transport information

14.1. DOT

Not regulated

14.2. TDG

Not regulated

14.3. IATA

Not regulated

14.4. IMDG/IMO

Not regulated

14.5. ICAO

Not regulated

SECTION 15: Regulatory information

TSCA

CAS# 26628-22-8 is listed on the TSCA inventory

CAS# 6923-01-9 is listed on the TSCA inventory

Health and Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List

Chemical Test Rules

None of the chemicals in the product are under a Chemical Test Rule

Section 12b

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None of the chemicals are listed under TSCA Section 12b

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA

SARA

CERCLA Hazardous Substances and Corresponding RQs

CAS# 26628-22-8: 1000 lb final RQ; 454 kg final RQ

SARA Section 302 Extremely Hazardous Substances

CAS# 26628-22-8: 500 lb TPQ (This material is a reactive solid. The TPQ does not default to 10000 pounds for non-powder, non-molten, non-solvent form)

SARA Codes

CAS# 26628-22-8: acute, chronic, reactive

Section 313

This material contains Sodium Azide (CAS#26628-22-8) but not in a high enough concentration to be reportable under Section 313 of SARA Title III and 40 CFR Part 372

Clean Air Act

This material does not contain any hazardous air pollutants.

This material does not contain any Class 1 Ozone depleters.

This material does not contain any Class 2 Ozone depleters.

Clean Water Act

None of the chemicals in this product are listed as Hazardous Substances under the CWA.

None of the chemicals in this product are listed as Priority Pollutants under the CWA.

None of the chemicals in the product are listed as Toxic Pollutants under the CWA.

OSHA

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

Sodium azide can be found on the following state right to know lists: California, New Jersey, Pennsylvania, Minnesota, Massachusetts.

California No Significant Risk Level: None of the chemicals in this product are listed.

WGK (Water Danger/Protection)

CAS# 26628-22-8: 2

CAS# 6923-01-9: No Information found

Canada

CAS# 26628-22-8 is listed on Canada's DSL List.

CAS# 26628-22-8 is listed on Canada's Ingredient Disclosure List.

CAS# 6923-01-9 is listed on Canada's Ingredient Disclosure List.

Note: The health effects above are based on an extrapolation of the data on the pure product ingredient. To the best of our knowledge, no health effects have been identified for the product mixture under normal working conditions.

SECTION 16: Other information

16a. Indication of where changes have been made to the previous version of the safety data sheet Revisions of this document

This is Revision 3 of this document.

Following changes have been made to the previous version:

- New Format
- Updating content according to current regulations

16b. Legend to abbreviations and acronyms used in the safety data sheet

Explanations of the abbreviations in Section 2

GHS Classification: Globally Harmonized System of Classification and labeling of Chemicals

Explanations of the abbreviations in Section 3

CAS: Chemical Abstracts Service

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EINECS: European Inventory of Existing Commercial Chemical Substances

Explanations of the abbreviations in Section 5

MSHA: Mine Safety and Health Administration

NIOSH: National Institute for Occupational Safety and Health

Explanations of the abbreviations in Section 8

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

CFR: Code of Federal Regulation

EN 149: European standards for respiratory protection

Explanations of the abbreviations in Section 11

RTECS: Registry of Toxic Effects of Chemical Substances

IARC: International Agency for Research on Cancer

NTP: National Tuberculosis Control Program

Explanations of the abbreviations in Section 13

RCRA: Resource Conservation and Recovery Act

Explanations of the abbreviations in Section 14

DOT: the U.S. Department of Transportation

TDG: Transportation of Dangerous Goods

IATA: The International Air Transport Association

IMDG/IMO: International Maritime Dangerous Goods Code/the International Maritime Organization

ICAO: International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)

Explanations of the abbreviations in Section 15

TSCA: the Toxic Substance Control Act

SARA: Species at Risk Act

SNUR: Significant New Use Rule

CERCLA: the Comprehensive Environmental Response, Compensation, and Liability Act

RQ: reportable quantity

TPQ: threshold planning quantity

CWA: Clean Water Act

WGK: Water Hazard Classes

DSL: Domestic Substances List

16c. Key literature references and sources for data

Sources for data

Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2022-08-24.

Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

Full texts for Regulations mentioned in this Safety Data Sheet

1907/2006	REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulation (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC
1272/2008	REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures,

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amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006

2008/98/EC DIRECTIVE 2008/98/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 19 November 2008 on waste and repealing certain Directives

16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

16e. List of relevant hazard statements and/or precautionary statements

See section 2.2. Hazard statements / Precautionary statement

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

Not indicated.

Other relevant information

Not indicated.

TECO GmbH provides the information in this data sheet in good faith, declaring it is up to date at time of revision. However, this document is intended only as a guide for professional use, according to the intended purposes of the product. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.