



Safety Data Sheet

GP DNA Whole Blood kit

Code No. NR-120

BR1083_US

BR8075_US

BR3080_US

EDB02_US

KURABO INDUSTRIES LTD.

Advanced Technology Division Bio-Medical department

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Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: L buffer
Product code: BR-1083
SDS NO: BR1083_US_1.1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KURABO INDUSTRIES LTD.
Address: Advanced Technology Center, 14-30 Shimokida-cho, Neyagawa, Osaka, 572-0823 JAPAN
Division: Bio-Medical department
Telephone number: +81-72-820-3079
FAX: +81-72-820-3095

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

Relevant identified uses of the product: Reagents for automated nucleic acid isolation system
 Uses advised against: For research use only

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture
 Not applicable to GHS classification

Label elements

No hazard pictogram
 No Signal word

3. Composition/information on ingredients

Mixture/Substance selection Mixture

Ingredient name	Content(%)	CAS No.
Sodium chloride	0.1 – 1	7647-14-5
Potassium chloride	< 0.1	7447-40-7
di-Sodium Hydrogenphosphate Heptahydrate	0.1 – 1	7782-85-6
Potassium Phosphate Monobasic	< 0.1	7778-77-0
Polyethylene Glycol Mono-p-isooctylphenyl Ether	1-10	9002-93-1
Water	Balance	7732-18-5

Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures

IF INHALED Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN(or hair) Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice/attention.

IF IN EYES 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.

IF SWALLOWED Rinse mouth.
 Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.
 Wear an air-supplied respirator for a poor/non ventilated spill.

Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.

Fill the disposal into labelled, closable containers.

7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

8. Exposure controls/personal protection

Control parameters

Adopted value

No ACGIH values available

Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

Safety and Health measures

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties	
Appearance:	Liquid
Color:	Colorless, Clear
Odor:	Mild odor
pH:	7.3
Flash point:	Not applicable (Non-flammable liquid)
Solubility	
Solubility in water:	Soluble

10. Stability and Reactivity

Chemical stability

Stable under normal storage/handling conditions.

11. Toxicological Information

Information on toxicological effects

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

No Carcinogenic effects data available

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available
No Aspiration hazard data available

12. Ecological Information

Toxicity

No Aquatic toxicity data available

Water solubility

(Potassium chloride)
good (ICSC, 2003)
(Potassium Phosphate Monobasic)
22 g/100 ml (ICSC, 2005)

Persistence and degradability

(Polyethylene Glycol Mono-p-isooctylphenyl Ether)
Not degrade rapidly (BIOWIN)

Bioaccumulative potential

(Potassium chloride)
log Kow=0.15 (PHYSPROP Database, 2005)

No Mobility in soil data available

Ozone depleting chemical data not available

13. Disposal considerations

Waste treatment methods

Avoid release to the environment (- if this is not the intended use).
Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No, UN CLASS Not applicable to UN NO.

15. Regulatory Information

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

US major regulations

TSCA Sodium chloride; Potassium chloride; Water; Potassium Phosphate Monobasic;
Polyethylene Glycol Mono-p-isooctylphenyl Ether

Other regulatory information

We are not able to check up other regulatory information in regard to the substances in your country or region, therefore we request this matter would be filled by your responsibility.

16. Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN
Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)
2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)
2017 TLVs and BEIs. (ACGIH)
<http://monographs.iarc.fr/ENG/Classification/index.php>
Supplier's data/information
GESTIS-Stoffdatenbank
HCS/HazCom 2012 (29 CFR 1910.1200)
Pub Chem (OPEN CHEMISTRY DATABASE)

General Disclaimer

The GHS classification data given here is based on EU CLP, 2017 & US HCS, 2012.
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The GHS classification data given here is based on current EU official data (EU CLP published in 01.01.2017) and HCS/HazCom 2012 (29 CFR 1910.1200).

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: D buffer
Product code: BR-8075
SDS NO: BR8075_US_1.1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KURABO INDUSTRIES LTD.
Address: Advanced Technology Center, 14-30 Shimokida-cho, Neyagawa, Osaka, 572-0823 JAPAN
Division: Bio-Medical department
Telephone number: +81-72-820-3079
FAX: +81-72-820-3095

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

Relevant identified uses of the product: Reagents for automated nucleic acid isolation system
Uses advised against: For research use only

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

HEALTH HAZARDS Acute toxicity Oral: Category 4
Skin corrosion/irritation: Category 2
Serious eye damage/eye irritation: Category 2

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

Label elements



Signal word: Warning

HAZARD STATEMENT

H302 Harmful if swallowed
H315 Causes skin irritation
H319 Causes serious eye irritation

PRECAUTIONARY STATEMENT

Prevention

P264 Wash contaminated parts thoroughly after handling.
P280 Wear protective gloves.
P280 Wear eye protection/face protection.
P270 Do not eat, drink or smoke when using this product.

Response

P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P362 + P364 Take off contaminated clothing and wash it before reuse.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P337 + P313 If eye irritation persists: Get medical advice/attention.
P330 Rinse mouth.
P301 + P312 IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Mixture/Substance selection Mixture

Ingredient name	Content(%)	CAS No.
Guanidine monohydrochloride	20 – 30	50-01-1
Tris(hydroxymethyl)aminomethane	0.1 – 1	77-86-1
Water	Balance	7732-18-5

Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures

IF INHALED Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN(or hair) Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice/attention.

IF IN EYES 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.

IF SWALLOWED Rinse mouth.
 Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.
 Wear an air-supplied respirator for a poor/non ventilated spill.
 Wear proper protective equipment.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.
 Fill the disposal into labelled, closable containers.

7. Handling and storage

Precautions for safe handling

Safety Measures/Incompatibility
 Wear protective gloves.
 Wear eye protection/face protection.

Conditions for safe storage, including any incompatibilities
Recommendation for storage
 Store in a well-ventilated place. Keep container tightly closed.
 Keep cool. Protect from sunlight.

8. Exposure controls/personal protection

Control parameters

Adopted value
 No ACGIH values available

Exposure controls

Appropriate engineering controls
 Exhaust/ventilator should be available.
 Eye wash station should be available.
 Washing facilities should be available.

Individual protection measures
Respiratory protection
 In case of inadequate ventilation wear respiratory protection.

Hand protection
 Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

Safety and Health measures

Wash ... thoroughly after handling.

Do not eat, drink or smoke when using this product.

Take off contaminated clothing and wash it before reuse.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties	
Appearance:	Liquid
Color:	Colorless, Clear
Odor:	Mild odor
pH:	8.5
Flash point:	Not applicable (Non-flammable liquid)
Solubility	
Solubility in water:	Soluble

10. Stability and Reactivity

Chemical stability

Stable under normal storage/handling conditions.

11. Toxicological Information

Information on toxicological effects

- No Acute toxicity data available
- No Irritant properties data available
- No Allergenic and sensitizing effects data available
- No Mutagenic effects data available
- No Carcinogenic effects data available
- No Teratogenic effects data available
- No reproductive toxicity data available
- No STOT-single/repeated exposure data available
- No Aspiration hazard data available

12. Ecological Information

Toxicity

No Aquatic toxicity data available

Water solubility

(Guanidine monohydrochloride)
215 g/100 ml (20 C) (ICSC, 2000)

No Persistence and degradability data available

Bioaccumulative potential

(Guanidine monohydrochloride)
log Pow=-1.7 (ICSC, 2000)

No Mobility in soil data available

Ozone depleting chemical data not available

13. Disposal considerations

Waste treatment methods

- Avoid release to the environment (- if this is not the intended use).
- Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No, UN CLASS Not applicable to UN NO.

15. Regulatory Information

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

US major regulations

TSCA Guanidine monohydrochloride; Tris(hydroxymethyl)aminomethane; Water

Other regulatory information

We are not able to check up other regulatory information in regard to the substances in your country or region, therefore we request this matter would be filled by your responsibility.

16. Other information

GHS classification and labelling

Acute Tox. 4: H302 Harmful if swallowed

Skin Irrit. 2: H315 Causes skin irritation

Eye Irrit. 2: H319 Causes serious eye irritation

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2017 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

GESTIS-Stoffdatenbank

HCS/HazCom 2012 (29 CFR 1910.1200)

Pub Chem (OPEN CHEMISTRY DATABASE)

General Disclaimer

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The GHS classification data given here is based on current EU official data (EU CLP published in 01.01.2017) and HCS/HazCom 2012 (29 CFR 1910.1200).

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: H buffer
Product code: BR-3080
SDS NO: BR3080_US_1.1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KURABO INDUSTRIES LTD.
Address: Advanced Technology Center, 14-30 Shimokida-cho, Neyagawa, Osaka, 572-0823 JAPAN
Division: Bio-Medical department
Telephone number: +81-72-820-3079
FAX: +81-72-820-3095

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

Relevant identified uses of the product: Reagents for automated nucleic acid isolation system
 Uses advised against: For research use only

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture
 Not applicable to GHS classification

Label elements

No hazard pictogram
 No Signal word

3. Composition/information on ingredients

Mixture/Substance selection Mixture

Ingredient name	Content(%)	CAS No.
Tris(hydroxymethyl)aminomethane	< 1.0	77-86-1
Water	80-100	7732-18-5

Note : The figures shown above are not the specifications of the product.

4. First-aid measures

Descriptions of first-aid measures

IF INHALED Remove person to fresh air and keep comfortable for breathing.
 Call a POISON CENTER or doctor/physician if you feel unwell.

IF ON SKIN(or hair) Wash with plenty of soap and water.
 If skin irritation occurs: Get medical advice/attention.

IF IN EYES 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.

IF SWALLOWED Rinse mouth.
 Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media Use appropriate extinguishing media suitable for surrounding facilities.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Wear proper protective equipment.
 Wear an air-supplied respirator for a poor/non ventilated spill.

Environmental precautions

Prevent spills from entering sewers, watercourses or low areas.

Methods and materials for containment and cleaning up

Absorb spill with inert material (dry sand, earth, et al), then place in a chemical waste container.
 Fill the disposal into labelled, closable containers.

7. Handling and storage

Precautions for safe handling

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

8. Exposure controls/personal protection

Control parameters

Adopted value

No ACGIH values available

Exposure controls

Appropriate engineering controls

Exhaust/ventilator should be available.

Eye wash station should be available.

Washing facilities should be available.

Individual protection measures

Respiratory protection

In case of inadequate ventilation wear respiratory protection.

Hand protection

Wear protective gloves. Recommended material(s): impermeable or chemical resistant rubber

Eye protection

Wear safety glasses with side-shields or chemical safety goggle.

Skin and body protection

Wear protective clothing.

Safety and Health measures

Do not eat, drink or smoke when using this product.

Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties	
Appearance:	Liquid
Color:	Colorless, Clear
Odor:	Odorless
pH:	8
Flash point:	Not applicable (Non-flammable liquid)
Solubility	
Solubility in water:	Soluble

10. Stability and Reactivity

Chemical stability

Stable under normal storage/handling conditions.

11. Toxicological Information

Information on toxicological effects

No Acute toxicity data available

No Irritant properties data available

No Allergenic and sensitizing effects data available

No Mutagenic effects data available

No Carcinogenic effects data available

No Teratogenic effects data available

No reproductive toxicity data available

No STOT-single/repeated exposure data available

No Aspiration hazard data available

12. Ecological Information

Toxicity

No Aquatic toxicity data available

Persistence and degradability

No data available
Bioaccumulative potential
No data available
No Mobility in soil data available
Ozone depleting chemical data not available

13. Disposal considerations

Waste treatment methods

Avoid release to the environment (- if this is not the intended use).
Dispose of contents/container in accordance with local/national regulation.

14. Transport Information

UN No, UN CLASS	Not applicable to UN NO.
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15. Regulatory Information

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

US major regulations

TSCA 2-Amino-2-(hydroxymethyl)propane-1,3-diol hydrochloride

Other regulatory information

We are not able to check up other regulatory information in regard to the substances in your country or region, therefore we request this matter would be filled by your responsibility.

16. Other information

The product is not applicable to GHS classifications.

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN
Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN
Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)
2016 TLVs and BEIs. (ACGIH)
NITE CHRIP (http://www.safe.nite.go.jp/japan/sougou/view/SystemTop_jp.faces)

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The GHS classification data given here is based on current EU official data (EU CLP published in 01.01.2017) and HCS/HazCom 2012 (29 CFR 1910.1200).

Safety Data Sheet

1. Identification of the substance/mixture and of the company/undertaking

Product identifier:

Product name: Protease
Product code: EDB-02
SDS NO: EDB02_US_1.1

Details of the supplier of the safety data sheet

Manufacturer/Supplier: KURABO INDUSTRIES LTD.
Address: Advanced Technology Center, 14-30 Shimokida-cho, Neyagawa, Osaka, 572-0823 JAPAN
Division: Bio-Medical department
Telephone number: +81-72-820-3079
FAX: +81-72-820-3095

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

Relevant identified uses of the product: Reagents for automated nucleic acid isolation system
 Uses advised against: For research use only

2. Hazards identification

GHS classification and label elements of the product

Classification of the substance or mixture

HEALTH HAZARDS
 Skin corrosion/irritation: Category 2
 Serious eye damage/eye irritation: Category 2
 Respiratory sensitization: Category 1
 Specific target organ toxicity – single exposure: Respiratory tract irritation Category 3

(Note) GHS classification without description: Not applicable/Out of classification/Not classifiable

Label elements



Signal word: Danger

HAZARD STATEMENT

H315 Causes skin irritation
 H319 Causes serious eye irritation
 H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled
 H335 May cause respiratory irritation

PRECAUTIONARY STATEMENT

Prevention

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.
 P284 In case of inadequate ventilation wear respiratory protection. (as specified by the manufacturer/supplier or the competent authority.)
 P271 Use only outdoors or in a well-ventilated area.
 P264 Wash contaminated parts thoroughly after handling.
 P280 Wear protective gloves.
 P280 Wear eye protection/face protection.

Response

P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P342 + P311 If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.
 P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
 P302 + P352 IF ON SKIN: Wash with plenty of soap and water.
 P332 + P313 If skin irritation occurs: Get medical advice/attention.
 P362 + P364 Take off contaminated clothing and wash it before reuse.
 P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists: Get medical advice/attention.

Storage

P403 Store in a well-ventilated place. P233 Keep container tightly closed.

Disposal

P501 Dispose of contents/container in accordance with local/national regulation.

3. Composition/information on ingredients

Mixture/Substance selection Mixture

Ingredient name	Content(%)	CAS No.
Protease	95 <	9080-56-2

Note : The figures shown above are not the specifications of the product.

The components not described in this component table are not listed in EU CLP (Classification, labelling and packaging of substances and mixtures/table3-1 ECNO6182012) and HCS/HazCom 2012.

4. First-aid measures

Descriptions of first-aid measures

IF INHALED

Remove person to fresh air and keep comfortable for breathing.
If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

IF ON SKIN(or hair)

Wash with plenty of soap and water.

IF IN EYES

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

IF SWALLOWED

If eye irritation persists: Get medical advice/attention.
Rinse mouth.
Call a POISON CENTER or doctor/physician if you feel unwell.

5. Fire-fighting measures

Extinguishing media

Suitable extinguishing media

Use appropriate extinguishing media suitable for surrounding facilities.

6. Accidental release measures

Personnel precautions, protective equipment and emergency procedures

Ventilate area after material pick up is complete.
Wear an air-supplied respirator for a poor/non ventilated spill.
Wear proper protective equipment.

Environmental precautions

Avoid raising dust.

Methods and materials for containment and cleaning up

Ventilate area after material pick up is complete.
Fill the disposal into labelled, closable containers.

7. Handling and storage

Precautions for safe handling

Preventive measures

(Exposure Control for handling personnel)

Avoid breathing dust/fume.

Safety Measures/Incompatibility

Use only outdoors or in a well-ventilated area.

Wear protective gloves.

Wear eye protection/face protection.

Conditions for safe storage, including any incompatibilities

Recommendation for storage

Store in a well-ventilated place. Keep container tightly closed.

Keep cool. Protect from sunlight.

Storage temperature upper limit: 28°C

8. Exposure controls/personal protection

Control parameters

Adopted value

No ACGIH values available

Exposure controls

- Appropriate engineering controls
 - Exhaust/ventilator should be available.
 - Eye wash station should be available.
 - Washing facilities should be available.
- Individual protection measures
 - Respiratory protection
 - In case of inadequate ventilation wear respiratory protection.
 - Hand protection
 - Wear protective gloves.
 - Eye protection
 - Wear safety glasses with side-shields or chemical safety goggle.
 - Skin and body protection
 - Wear protective clothing.
 - Safety and Health measures
 - Wash ... thoroughly after handling.
 - Take off contaminated clothing and wash it before reuse.
 - Wash hands thoroughly after handling.

9. Physical and Chemical Properties

Information on basic physical and chemical properties

Physical properties	
Appearance:	Solid (Freeze-dry protease)
Color:	Pale yellow
Odor:	Mild odor
Solubility	
Solubility in water:	Soluble

10. Stability and Reactivity

- Chemical stability** Stable under normal storage/handling conditions.
- Incompatible materials** Oxidizing agents

11. Toxicological Information

Information on toxicological effects

- No Acute toxicity data available
- No Irritant properties data available
- No Allergenic and sensitizing effects data available
- No Mutagenic effects data available
- No Carcinogenic effects data available
- No Teratogenic effects data available
- No reproductive toxicity data available
- No STOT-single/repeated exposure data available
- No Aspiration hazard data available

12. Ecological Information

Toxicity

- No Aquatic toxicity data available
- No Persistence and degradability data available
- No Bioaccumulative potential data available
- No Mobility in soil data available
- Ozone depleting chemical data not available

13. Disposal considerations

Waste treatment methods

- Dispose of contents/container in accordance with local/national regulation.
- Avoid raising dust.
- Avoid release to the environment (- if this is not the intended use).

14. Transport Information

- UN No, UN CLASS** Not applicable to UN NO.

15. Regulatory Information

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

Data N.A.

Other regulatory information

We are not able to check up other regulatory information in regard to the substances in your country or region, therefore we request this matter would be filled by your responsibility.

16. Other information

GHS classification and labelling

Skin Irrit. 2: H315 Causes skin irritation

Eye Irrit. 2: H319 Causes serious eye irritation

Resp. Sens. 1: H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled

STOT SE 3: H335 May cause respiratory irritation

Reference Book

Globally Harmonized System of classification and labelling of chemicals, (5th ed., 2013), UN

Recommendations on the TRANSPORT OF DANGEROUS GOODS 19th edit., 2015 UN

Classification, labelling and packaging of substances and mixtures (table3-1 ECNO6182012)

2012 EMERGENCY RESPONSE GUIDEBOOK(US DOT)

2017 TLVs and BEIs. (ACGIH)

<http://monographs.iarc.fr/ENG/Classification/index.php>

Supplier's data/information

GESTIS-Stoffdatenbank

HCS/HazCom 2012 (29 CFR 1910.1200)

Pub Chem (OPEN CHEMISTRY DATABASE)

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