

Kit Components

Version: 1.1

Creation Date: 2025/02/06
Revision Date: 2026/05/20

Product Name	ImmunoEX™ Immunoassay Development Kit (TBST)
Product Catalogue Number	IEX001
Components	IE01-125 / IE03-50 / IE05-50

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version: 1.2

Creation Date: 2025/02/06

Revision Date: 2026/05/20

1. Identification

Product identifier

Product name	ImmunoEX™ TBST Buffer
Product number	IE01-50 / IE01-125 / IE01-500
Recommended use	Biochemical reagent for research use only

Details of the supplier of the safety data sheet

Manufacture / Supplier	Energenesis Biomedical Co., Ltd.
Address	6F-3, No.21, Ln. 583, Ruiguang Rd., Neihsu Dist. Taipei City 114, Taiwan
Phone	+886-2-2627-0835
Fax	+886-2-2627-0836

Emergency telephone number +886-2-2627-0835

2. Hazard(s) identification

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

Substance/mixture Mixture

CAS No. EC No. Index No.	Component Name Synonyms	1272/2008 (CLP)	Percent
7647-14-5 231-598-3 —	Sodium chloride		0.87
77-86-1 201-064-4 —	Trometamol		0.6
9005-64-5 500-018-3 —	Sorbitan monolaurate, ethoxylated		0.05

Additional information For the full text of the H-Statements mentioned in this Section, see Section 16.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

4. First aid measures

Description of first aid measures

Eye Contact	Flush eyes with water as a precaution
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact	Wash off with soap and plenty of water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Special hazards arising from the substance or mixture

No data available

Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Recommended storage temperature: 2-8 °C

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Specific end use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.
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8. Exposure controls/personal protection

Control parameters Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Component Name CAS No.	PEL-TWA	PEL-STEL	PEL-Ceiling	BEIs
Trometamol 77-86-1	5 mg/m ³	—	5 mg/m ³	—

Exposure controls

Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Eye protection	Wear chemical safety goggles. An eye wash station must be available where this product is used.
Skin and body protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hand protection	Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Form: liquid Color: clear
Odour	No data available
Odour Threshold	No data available
pH	7.8-8.2
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower and upper explosive (flammable) limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	No data available
Solubility in water	No data available
Partition coefficient: n-octanol/ water (log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Viscosity

No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects No data available

Acute toxicity

Component Name CAS No.	Result	Species	Dose	Exposure
Trometamol 77-86-1	LD50 Dermal LD50 Oral	Rat Rat	>5,000 mg/kg >5,000 mg/kg	— —

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	No data available

12. Ecological information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

No data available

13. Disposal considerations

Waste treatment methods

Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. Transport information

IATA / ADR / RID / IMDG	Classified as dangerous in the meaning of transport regulations.
UN number	—
UN proper shipping name	Not dangerous goods
Transport hazard class(es)	—
Packaging group	—
Environmental hazards	no
Special precautions for user	No data available
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No data available

15. Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

No data available

16. Other information

Abbreviations

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
BEIs	Biological exposure indices
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association-Dangerous Goods Regulations

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

CAS	Chemical Abstracts Service (division of the American Chemical Society)
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
STEL	Short Term Exposure Limit
TWA	Time Weighted Average
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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version: 1.1

Creation Date: 2025/02/06

Revision Date: 2026/05/20

1. Identification

Product identifier

Product name ImmunoEX™ Protein-Based Immunoassay Buffer (TBST)
Product number IE03-10 / IE03-50 / IE03-500
Recommended use Biochemical reagent for research use only

Details of the supplier of the safety data sheet

Manufacture / Supplier Energenesis Biomedical Co., Ltd.
Address 6F-3, No.21, Ln. 583, Ruiguang Rd., Neihsu Dist.
Taipei City 114, Taiwan
Phone +886-2-2627-0835
Fax +886-2-2627-0836

Emergency telephone number +886-2-2627-0835

2. Hazard(s) identification

Classification of the substance or mixture Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Label elements Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

Other hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

3. Composition/information on ingredients

Substance/mixture Mixture

CAS No. EC No. Index No.	Component Name Synonyms	1272/2008 (CLP)	Percent
7647-14-5 231-598-3 —	Sodium chloride		0.87
77-86-1 201-064-4 —	Trometamol		0.6
9005-64-5 500-018-3 —	Sorbitan monolaurate, ethoxylated		0.05

Additional information For the full text of the H-Statements mentioned in this Section, see Section 16.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

4. First aid measures

Description of first aid measures

Eye Contact	Flush eyes with water as a precaution
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact	Wash off with soap and plenty of water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Special hazards arising from the substance or mixture

No data available

Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Recommended storage temperature: 2-8 °C

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Specific end use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.
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8. Exposure controls/personal protection

Control parameters Good general ventilation should be sufficient to control worker exposure to airborne contaminants.

Component Name CAS No.	PEL-TWA	PEL-STEL	PEL-Ceiling	BEIs
Trometamol 77-86-1	5 mg/m ³	—	5 mg/m ³	—

Exposure controls

Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Eye protection	Wear chemical safety goggles. An eye wash station must be available where this product is used.
Skin and body protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hand protection	Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Form: liquid Color: clear
Odour	No data available
Odour Threshold	No data available
pH	7.8-8.2
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower and upper explosive (flammable) limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	No data available
Solubility in water	No data available
Partition coefficient: n-octanol/ water (log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Viscosity

No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects No data available

Acute toxicity

Component Name CAS No.	Result	Species	Dose	Exposure
Trometamol 77-86-1	LD50 Dermal LD50 Oral	Rat Rat	>5,000 mg/kg >5,000 mg/kg	— —

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	No data available

12. Ecological information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

No data available

13. Disposal considerations

Waste treatment methods

Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. Transport information

IATA / ADR / RID / IMDG	Classified as dangerous in the meaning of transport regulations.
UN number	—
UN proper shipping name	Not dangerous goods
Transport hazard class(es)	—
Packaging group	—
Environmental hazards	no
Special precautions for user	No data available
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No data available

15. Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

No data available

16. Other information

Abbreviations

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
BEIs	Biological exposure indices
IMDG	International Maritime Dangerous Goods
IATA	International Air Transport Association-Dangerous Goods Regulations

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

CAS	Chemical Abstracts Service (division of the American Chemical Society)
OSHA	Occupational Health and Safety Administration
PEL	Permissible Exposure Limit
RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
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TWA	Time Weighted Average
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Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Version: 1.1

Creation Date: 2025/02/06

Revision Date: 2026/05/20

1. Identification

Product identifier

Product name ImmunoEX™ Protein-Free Immunoassay Buffer (TBST)
Product number IE05-10 / IE05-50 / IE05-500
Recommended use Biochemical reagent for research use only

Details of the supplier of the safety data sheet

Manufacture / Supplier Energenesis Biomedical Co., Ltd.
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3. Composition/information on ingredients

Substance/mixture Mixture

CAS No. EC No. Index No.	Component Name Synonyms	1272/2008 (CLP)	Percent
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77-86-1 201-064-4 —	Trometamol		0.6
9005-64-5 500-018-3 —	Sorbitan monolaurate, ethoxylated		0.05

Additional information For the full text of the H-Statements mentioned in this Section, see Section 16.

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

4. First aid measures

Description of first aid measures

Eye Contact	Flush eyes with water as a precaution
Inhalation	If breathed in, move person into fresh air. If not breathing, give artificial respiration.
Skin Contact	Wash off with soap and plenty of water.
Ingestion	Never give anything by mouth to an unconscious person. Rinse mouth with water

Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11.

Indication of any immediate medical attention and special treatment needed

No data available

5. Firefighting measures

Extinguishing media

Suitable extinguishing media	Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
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Special hazards arising from the substance or mixture

No data available

Advice for fire-fighters

Wear self-contained breathing apparatus for firefighting if necessary.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.

Environmental precautions

Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and material for containment and cleaning up

Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.

Reference to other sections

For disposal see section 13.

7. Handling and storage

Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.

Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Recommended storage temperature: 2-8 °C

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Specific end use(s)	Apart from the uses mentioned in section 1 no other specific uses are stipulated.
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8. Exposure controls/personal protection

Control parameters	Good general ventilation should be sufficient to control worker exposure to airborne contaminants.
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Component Name CAS No.	PEL-TWA	PEL-STEL	PEL-Ceiling	BEIs
Trometamol 77-86-1	5 mg/m ³	—	5 mg/m ³	—

Exposure controls

Appropriate engineering controls	Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.
Personal protective equipment	
Eye protection	Wear chemical safety goggles. An eye wash station must be available where this product is used.
Skin and body protection	Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.
Respiratory protection	A respiratory protection program that meets OSHA's 29 CFR 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.
Hand protection	Wear chemically resistant gloves, Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work. Have a safety shower available.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance	Form: liquid Color: clear
Odour	No data available
Odour Threshold	No data available
pH	7.8-8.2
Melting point/freezing point	No data available
Initial boiling point and boiling range	No data available
Flash point	No data available
Evaporation rate	No data available
Flammability (solid, gas)	No data available
Lower and upper explosive (flammable) limits	No data available
Vapor pressure	No data available
Vapor density	No data available
Relative density	No data available
Solubility	No data available
Solubility in water	No data available
Partition coefficient: n-octanol/ water (log Kow)	No data available
Auto-ignition temperature	No data available
Decomposition temperature	No data available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Viscosity

No data available

10. Stability and reactivity

Reactivity	No data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	No data available
Incompatible materials	No data available
Hazardous decomposition products	Under normal conditions of storage and use, hazardous decomposition products should not be produced.

11. Toxicological information

Information on toxicological effects No data available

Acute toxicity

Component Name CAS No.	Result	Species	Dose	Exposure
Trometamol 77-86-1	LD50 Dermal LD50 Oral	Rat Rat	>5,000 mg/kg >5,000 mg/kg	— —

Skin corrosion/irritation	No data available
Serious eye damage/eye irritation	No data available
Respiratory or skin sensitisation	No data available
Germ cell mutagenicity	No data available
Carcinogenicity	No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.
Reproductive toxicity	No data available
Specific target organ toxicity - single exposure	No data available
Specific target organ toxicity - repeated exposure	No data available
Aspiration hazard	No data available
Additional Information	No data available

12. Ecological information

Toxicity	No data available
Persistence and degradability	No data available
Bioaccumulative potential	No data available
Mobility in soil	No data available

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH)

Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Other adverse effects

No data available

13. Disposal considerations

Waste treatment methods

Product	Offer surplus and non-recyclable solutions to a licensed disposal company.
Contaminated packaging	Dispose of as unused product.

14. Transport information

IATA / ADR / RID / IMDG	Classified as dangerous in the meaning of transport regulations.
UN number	—
UN proper shipping name	Not dangerous goods
Transport hazard class(es)	—
Packaging group	—
Environmental hazards	no
Special precautions for user	No data available
Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	No data available

15. Regulatory information

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

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

Chemical safety assessment

No data available

16. Other information

Abbreviations

ADR	European Agreement Concerning the International Carriage of Dangerous Goods by Road
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OSHA	Occupational Health and Safety Administration
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RID	Regulations Concerning the International Carriage of Dangerous Goods by Rail
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