



SAFETY DATA SHEET

Doc. ID: B71515 Rev. AA
Issued (year/month/day) 2015/05/22

Section 1 Identification of the Substance/mixture and of the Company/undertaking

1.1 Product Identifier

Product Name MicroScan Peptidase
Part Number 10444446, 10444542, 10444559, 6659-30/W, B1012-30B, B1015-30, B1015-55

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

Product Use For In Vitro Diagnostic Use. See product literature for details.

1.3 Details of the supplier of the safety data sheet

Manufacturer

Beckman Coulter, Inc.
250 S. Kraemer Blvd
Brea, CA 92821, U.S.A.
Tel: 800-854-3633

EC REP Address

Beckman Coulter Eurocenter S.A.
22, rue Juste-Oliver, Case Postale 1044,
CH-1260 Nyon 1, Switzerland.
Telephone +41 (0)22 365 36 11
Monday through Friday, 9:00 am to
7:00pm)

e-mail address SDSNT@beckman.com

1.4 Emergency telephone number

Telephone number (24H) Chemtrec Emergency Tel No. U.S.A. 800-424-9300, International (001) 703-527-3887

Distributor and Emergency Phone No.

Refer to attached list, Document ID: [472050](#), for local distributor and emergency phone numbers.

Section 2 Hazards Identification

2.1 Classification of substance or mixture

Product Description Mixture
Yellowish; Clear; Liquid; Pungent

Classification according to EC 1272/2008 (CLP/GHS)

Eye Irritation Category 2
Toxic to Reproductive Category 1B
Aquatic Hazard Long term, Category 3

Classification according to EC Directives 1999/45/EC and 67/548/EEC

T;R60-61

Classification according to US-OSHA (HCS 29 CFR 1910.1200) and UN GHS

Aquatic Hazard Long term, Category 3

Section 2 Hazards Identification (Continued)

2.2 Label Elements

According to EC 1272/2008 (CLP/GHS), US-OSHA and UN GHS

Hazardous Ingredients

Acetic Acid
N,N-Dimethylformamide
Sodium Lauryl Sulfate
2-Methoxyethanol

Pictogram



Signal Word

DANGER

Hazard Statements

H319 Causes serious eye irritation.
H360 May damage fertility or the unborn child.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P201 Obtain special instructions before use.
P273 Avoid release to the environment.
P280 Wear protective gloves, protective clothing and eye/face protection.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P313 IF exposed or concerned: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
P405 Store locked up.
P501 Dispose of contents/container in accordance with local/national regulations
Product label will display most significant precautionary statements.

2.3 Other hazards

Results of PBT and vPvB assessment
PBT: Not applicable.
vPvB: Not applicable.

See Section 11 Toxicological Information for more detailed health information.

Section 3 Composition and Information on Ingredients

3.2 Mixtures

Hazardous Ingredients:		Hazard Classification of Pure Ingredients			
Chemical Name	% by wt.	EU-67/548/EEC	EU 1272/2008 CLP/GHS	GHS	

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Section 3 Composition and Information on Ingredients (Continued)

2-Methoxyethanol CAS # 109-86-4 EINECS # 203-713-7 Index # 603-011-00-4	1 - 5	T;R10-20/21/22-47-60-61 Repr. Cat. 2	Acute Tox. Dermal 4 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Flam. Liq. 3 Repr. 1B H226; H302; H312; H332; H360	Acute Tox. Dermal 4 Acute Tox. Inhal. 4 Acute Tox. Oral 4 Flam. Liq. 3 Repr. 1B H226; H302; H312; H332; H360	
Acetic Acid CAS # 64-19-7 EINECS # 200-580-7 Index # 607-002-00-6	1 - <3	C;R10-35	Flam. Liq. 3 Skin Corr. 1A H226; H314	Flam. Liq. 3 Skin Corr. 1A H226; H314	
Sodium Lauryl Sulfate CAS # 151-21-3 EINECS # 205-788-1 Index # Not available	1 - 5	F;R11 Xn;R21/22-36/37/38	Acute Tox. Oral 4 Eye Irrit. 2A Flam. Sol. 2 Skin Irrit. 2 H228; H302; H315; H319	Acute Tox. Oral 4 Eye Irrit. 2A Flam. Sol. 2 Skin Irrit. 2 H228; H302; H315; H319	
N,N-Dimethylformamide CAS # 68-12-2 EINECS # 200-679-5 Index # 616-001-00-X	1 - 3	T;R61-20/21-36 Repr. Cat. 2	Acute Tox. Dermal 4 Acute Tox. Inhal. 4 Eye Irrit. 2 Flam. Liq. 3 Repr. 1B H226; H312; H319; H332; H360	Acute Tox. Dermal 4 Acute Tox. Inhal. 4 Eye Irrit. 2 Flam. Liq. 3 Repr. 1B H226; H312; H319; H332; H360	SVHC

SVHC - Substance of very high concern

See section 8 for available Occupational exposure limits

See Section 15 for additional regulatory information

See Section 16 for hazard class, hazard statements and risk phrase description

Section 4 First Aid Measures

4.1 Description of first aid measures

Inhalation

If product is inhaled, move exposed individual to fresh air. If individual is not breathing, begin artificial respiration immediately and obtain medical attention.

Eye Contact

If product enters eyes, wash eyes gently under running water for 15 minutes or longer, making sure that the eyelids are held open. If pain or irritation occur, obtain medical attention.

Skin Contact

In case of skin contact, flush with copious amounts of water for at least 15 minutes. If pain or irritation occur, obtain medical attention.

Ingestion

If ingested, wash mouth out with water. If irritation or discomfort occurs, seek medical attention.

4.2 Most important symptoms and effects, both acute and delayed

May cause eye irritation.

See Section 11 Toxicological Information for more detailed health information.

4.3 Indication of any immediate medical attention and special treatment needed

No specific medical attention or treatment required.

Section 5 Fire Fighting Measures

Flammable Properties	Nonflammable aqueous solution.
5.1 Extinguishing Media	In case of fire use carbon dioxide (CO ₂), dry chemical, water spray or foam. For large fires use extinguishing media suitable for surrounding fire.
5.2 Special hazards arising from the substance or mixture	
Special Fire and Explosion Hazards	No special hazards determined.
Hazardous Combustion Products	No combustion products posing significant hazards are expected from this product (an aqueous solution).
5.3 Advice for fire fighters	
Protective Equipment	Self-contained breathing apparatus is recommended for firefighters in all chemical fire situations.
5.4 Additional information	No further relevant information available.

Section 6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures	
Personal Precautions	Observe general safety guidelines for protection; avoid eye and skin contact. Wear protective gloves, protective clothing and tightly sealed eye/face protection.
6.2 Environmental Precautions	Contain spill to prevent migration. Do not allow the undiluted product to enter sewers/surface or ground water. Dispose of contents/container in accordance with local regulations
6.3 Methods and material for containment and cleaning up	
Spill and Leak Procedures	Absorb spilled material with an appropriate inert, non-flammable absorbent and dispose according to local regulations.
6.4 Reference to other sections	Refer sections 8 and 13.

Section 7 Handling and Storage

7.1 Precautions for safe handling	Use good laboratory procedures; avoid eye and skin contact.
7.2 Conditions for safe storage, including any incompatibilities	Store at 2 to 8°C , as directed on the product label. To maintain product quality, store according to the instructions in the product labeling. Store away from strong acids, strong bases, strong oxidizers and incompatible materials (section 10).
7.3 Specific end uses	No further relevant information available.

Section 8 Exposure Controls and Personal Protection

8.1 Control parameters

Exposure Limits

US OSHA

Acetic Acid CAS # 64-19-7	10 ppm TWA; 25 mg/m ³ TWA
N,N-Dimethylformamide CAS # 68-12-2	10 ppm TWA; 30 mg/m ³ TWA; prevent or reduce skin absorption
2-Methoxyethanol CAS # 109-86-4	25 ppm TWA; 80 mg/m ³ TWA; prevent or reduce skin absorption

ACGIH

Acetic Acid CAS # 64-19-7	15 ppm STEL; 10 ppm TWA
N,N-Dimethylformamide CAS # 68-12-2	10 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route
2-Methoxyethanol CAS # 109-86-4	0.1 ppm TWA; Skin - potential significant contribution to overall exposure by the cutaneous route

DFG MAK

Acetic Acid CAS # 64-19-7	20 ppm Peak; 50 mg/m ³ Peak; 10 ppm TWA MAK; 25 mg/m ³ TWA MAK
N,N-Dimethylformamide CAS # 68-12-2	10 ppm Peak; 30 mg/m ³ Peak; skin notation; 5 ppm TWA MAK; 15 mg/m ³ TWA MAK
2-Methoxyethanol CAS # 109-86-4	8 ppm Peak; 25.6 mg/m ³ Peak; skin notation; 1 ppm TWA MAK; 3.2 mg/m ³ TWA MAK

Ireland

Acetic Acid CAS # 64-19-7	10 ppm TWA; 25 mg/m ³ TWA; 15 ppm STEL; 37 mg/m ³ STEL
N,N-Dimethylformamide CAS # 68-12-2	10 ppm TWA; 30 mg/m ³ TWA; 20 ppm STEL; 60 mg/m ³ STEL; Potential for cutaneous absorption
2-Methoxyethanol CAS # 109-86-4	1 ppm TWA; 3 ppm STEL (calculated); Potential for cutaneous absorption

IOELVs

N,N-Dimethylformamide CAS # 68-12-2	10 ppm STEL; 30 mg/m ³ STEL; 5 ppm TWA; 15 mg/m ³ TWA; Possibility of significant uptake through the skin
2-Methoxyethanol CAS # 109-86-4	1 ppm TWA; Possibility of significant uptake through the skin

NIOSH

Acetic Acid CAS # 64-19-7	50 ppm IDLH; 15 ppm STEL; 37 mg/m ³ STEL; 10 ppm TWA; 25 mg/m ³ TWA
N,N-Dimethylformamide CAS # 68-12-2	500 ppm IDLH; 10 ppm TWA; 30 mg/m ³ TWA
2-Methoxyethanol CAS # 109-86-4	200 ppm IDLH; 0.1 ppm TWA; 0.3 mg/m ³ TWA

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Section 8 Exposure Controls and Personal Protection (Continued)

Japan

Acetic Acid CAS # 64-19-7	10 ppm OEL; 25 mg/m3 OEL
N,N-Dimethylformamide CAS # 68-12-2	10 ppm OEL; 30 mg/m3 OEL
2-Methoxyethanol CAS # 109-86-4	0.1 ppm OEL; 0.31 mg/m3 OEL

8.2 Exposure controls

Engineering Controls

No special engineering controls are required. Use with good general ventilation.

Eye Protection

Safety glasses or chemical goggles should be worn to prevent eye contact. Refer U.S. OSHA 29 CFR 1910.133, European Standard EN166 or appropriate government standards.

Skin Protection

Impervious gloves, such as Nitrile or equivalent, should be worn to prevent skin contact. Refer U.S. OSHA 29 CFR 1910.138, European Standard EN374 or appropriate government standards.

Respiratory Protection

Under normal conditions, the use of this product should not require respiratory protection. If overexposure should occur and ventilation is not adequate to maintain airborne concentrations at acceptable levels, the use of respiratory protection should be evaluated by a qualified professional.

Section 9 Physical and Chemical Properties

9.1 Information on basic physical and chemical properties

Physical State	Liquid	Specific Gravity (Water=1.0)	Not determined
Color	Yellowish	Solubility	
Transparency	Clear	Water	Miscible
Odor	Pungent	Organic	Not determined
pH	Not determined	Partition coefficient: n-octanol/water	Not determined
Freezing Point	Not determined	Auto-ignition Temp.	Not determined
Boiling Point	Not determined	Decomposition Temperature	Not determined
Flash Point	99°C (210.2°F)	Percent Volatiles	Not determined
Evaporation Rate	Not determined	Vapor Pressure	Not determined
Flammability (Solid, Gas)	Not applicable	Viscosity	Not determined
Flammability Limits	Not determined	Explosive Properties	Not applicable
Vapor Density	Not determined	Oxidizing Properties	Not applicable

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Section 9 Physical and Chemical Properties (Continued)

Odor Threshold	Acetic Acid 0.074 ppm geometric mean air odor threshold = (detectable) N,N-Dimethylformamide no geometric mean air odor threshold 2-Methoxyethanol 2.4 ppm geometric mean air odor threshold = (detectable); 4.4 ppm geometric mean air odor threshold = (recognizable)
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9.2 Other Information No further relevant information available.

Section 10 Stability and Reactivity

10.1 Reactivity	No further relevant information available.
10.2 Chemical Stability	The product is stable in accordance with recommended storage conditions.
10.3 Possibility of hazardous reactions	No further relevant information available.
10.4 Conditions to Avoid	To maintain product performance keep away from strong acids, strong bases, strong oxidizers. Avoid exposure to heat and direct sunlight.
10.5 Incompatible materials	No further relevant information available.
10.6 Hazardous Decomposition Products	No decomposition products posing significant hazards would be expected from this product (an aqueous solution).

Section 11 Toxicological Information

11.1 Information on toxicological effects

Toxicity Data for Hazardous Ingredients

Acetic Acid CAS # 64-19-7	Dermal LD50 Rabbit 1060 mg/kg; Inhalation LC50 Rat 11.4 mg/L 4 h; Oral LD50 Rat 3310 mg/kg
N,N-Dimethylformamide CAS # 68-12-2	Oral LD50 Rat 2000 mg/kg; Dermal LD50 Rat >3.2 g/kg
2-Methoxyethanol CAS # 109-86-4	Dermal LD50 Rabbit 1280 mg/kg; Inhalation LC50 Rat 1478 ppm 7 h; Oral LD50 Rat 2370 mg/kg
Sodium Lauryl Sulfate CAS # 151-21-3	Inhalation LC50 Rat >3900 mg/m ³ 1 h; Oral LD50 Rat 1288 mg/kg; Dermal LD50 Rabbit 580 mg/kg

Primary Routes of Exposure Eye contact, ingestion, inhalation, and skin contact.

Skin Corrosion/Irritation No data available.

Serious eye damage/eye irritation May cause eye irritation.

Respiratory/skin sensitization No data available.

Carcinogenicity No ingredients in this product are listed as carcinogens by ACGIH, IARC, NTP, OSHA or 1272/2008 EC regulation.

Germ cell mutagenicity No data available.

Section 11 Toxicological Information (Continued)

Reproductive Toxicity May damage fertility or the unborn child.

Specific target organ toxicity – single exposure

No data available.

Specific target organ toxicity – repeated exposure

No data available.

Aspiration hazard No data available.

Other Information No further relevant information available.

Section 12 Ecological Information

12.1 Ecotoxicity

Fresh Water Species

Acetic Acid
CAS # 64-19-7

96 h LC50 Pimephales promelas: 79 mg/L [static]; 96 h LC50 Lepomis macrochirus: 75 mg/L [static]

N,N-Dimethylformamide
CAS # 68-12-2

96 h LC50 Lepomis macrochirus: 6300 mg/L; 96 h LC50 Oncorhynchus mykiss: 9800 mg/L [flow-through]; 96 h LC50 Pimephales promelas: 10410 mg/L [flow-through]

2-Methoxyethanol
CAS # 109-86-4

96 h LC50 Lepomis macrochirus: 10000 mg/L [static]; 96 h LC50 Lepomis macrochirus: 9650 mg/L [static]; 96 h LC50 Oncorhynchus mykiss: 16000 mg/L [static]

Sodium Lauryl Sulfate
CAS # 151-21-3

96 h LC50 Pimephales promelas: 8-12.5 mg/L [static] (fry); 96 h LC50 Pimephales promelas: 15-18.9 mg/L [static] (juvenile); 96 h LC50 Pimephales promelas: 22.1-22.8 mg/L [static] (adult); 96 h LC50 Oncorhynchus mykiss: 4.3-8.5 mg/L [static]; 96 h LC50 Oncorhynchus mykiss: 4.62 mg/L [flow-through]; 96 h LC50 Oncorhynchus mykiss: 4.2 mg/L; 96 h LC50 Brachydanio rerio: 7.97 mg/L [flow-through]; 96 h LC50 Brachydanio rerio: 9.9-20.1 mg/L [semi-static]; 96 h LC50 Lepomis macrochirus: 4.06-5.75 mg/L [static]; 96 h LC50 Lepomis macrochirus: 4.2-4.8 mg/L [flow-through]; 96 h LC50 Lepomis macrochirus: 4.5 mg/L; 96 h LC50 Pimephales promelas: 5.8-7.5 mg/L [static]; 96 h LC50 Pimephales promelas: 10.2-22.5 mg/L [semi-static]; 96 h LC50 Pimephales promelas: 6.2-9.6 mg/L; 96 h LC50 Poecilia reticulata: 13.5-18.3 mg/L [semi-static]; 96 h LC50 Poecilia reticulata: 10.8-16.6 mg/L [static]; 96 h LC50 Cyprinus carpio: 1.31 mg/L [semi-static]

No information available.

Microtox

Water Flea

Acetic Acid
CAS # 64-19-7

48 h EC50 Daphnia magna: 65 mg/L [Static]

N,N-Dimethylformamide
CAS # 68-12-2

48 h EC50 Daphnia magna: 7500 mg/L; 48 h EC50 Daphnia magna: 8485 mg/L [semi-static]; 48 h EC50 Daphnia magna: 6800 - 13900 mg/L [Static]

Sodium Lauryl Sulfate
CAS # 151-21-3

48 h EC50 Daphnia magna: 1.8 mg/L

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Section 12 Ecological Information (Continued)

Fresh Water Algae

N,N-Dimethylformamide
CAS # 68-12-2

96 h EC50 *Desmodesmus subspicatus*: >500 mg/L

Sodium Lauryl Sulfate
CAS # 151-21-3

72 h EC50 *Desmodesmus subspicatus*: 53 mg/L; 96 h EC50 *Desmodesmus subspicatus*: 30 - 100 mg/L; 96 h EC50 *Pseudokirchneriella subcapitata*: 117 mg/L; 96 h EC50 *Pseudokirchneriella subcapitata*: 3.59 - 15.6 mg/L [static]

12.2 Persistence and degradability Not determined for the product.

12.3 Bioaccumulation Not determined for the product.

12.4 Mobility in soil Not determined for the product.

12.5 Results of PBT and vPvB assessment

Not determined for the product. PBT: Not applicable, vPvB: Not applicable.

12.6 Other Adverse Effects This product is classified as environmentally hazardous. Do not allow undiluted product to enter sewer/surface or ground water. Dispose of contents/container to in accordance with local/national regulations

Section 13 Disposal Considerations

13.1 Waste treatment methods

Product Waste Disposal

Chemical residues and remains should be routinely handled as special waste. This must be disposed of in compliance with anti-pollution and other laws of the country concerned. To ensure compliance we recommend that you contact the relevant (local) authorities and/or an approved waste-disposal company for information.

Package disposal

Dispose of waste product, unused product and contaminated packaging in compliance with federal, state and local regulations. If unsure of the applicable requirements, contact the authorities for information.

13.2 Additional information

Suggested European waste catalogue 18 01 06* - chemicals consisting of or containing dangerous substances. Dispose in accordance with national, state and local waste regulations.

Section 14 Transport Information

Transportation of this product is not regulated under ICAO, IMDG, US DOT, European ADR or Canadian TDG.

Section 15 Regulatory Information

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

US Federal and State Regulations

SARA 313

N,N-Dimethylformamide is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

2-Methoxyethanol is subject to reporting requirements of Section 313, Title III of SARA. 1.0 % de minimis concentration

CERCLA RG's, 40 CFR 302.4

Acetic Acid is listed.

N,N-Dimethylformamide is listed.

Section 15 Regulatory Information (Continued)

California Proposition 65

2-Methoxyethanol has been identified by the State of California to cause reproductive harm. The State of California has adopted a regulation which requires a warning be given to individual who may be exposed to chemicals identified by the State to cause cancer or reproductive harm.
WARNING: This product contains a chemical known to the State of California to cause reproductive harm.

Massachusetts MSL

Acetic Acid is listed.
N,N-Dimethylformamide is listed.
2-Methoxyethanol is listed.

New Jersey Dept. of Health RTK List

Acetic Acid is listed.
N,N-Dimethylformamide is listed.
2-Methoxyethanol is listed.

Pennsylvania RTK

Acetic Acid is listed.
N,N-Dimethylformamide is listed.
2-Methoxyethanol is listed.

EU Regulations

This SDS complies with EC Regulations 1907/2006 (REACH) and amendments.

Water Hazard Class (Germany) WGK 1, low water endangering

REACH 1907/2006 EC - Annex XIV - list of substances subject to authorization.

No ingredients listed.

According to EC Directives (1999/45/EC and 67/548 EEC)

Toxic

T



Risk and Safety Phrases

R60 May impair fertility.
R61 May cause harm to unborn child.
S53 Avoid exposure - obtain special instructions before use.

Canada

This product is exempt from WHMIS label and SDS requirements.

PIN Not applicable

Ingredients on Ingredient Disclosure List

Acetic Acid
N,N-Dimethylformamide
2-Methoxyethanol
Sodium Lauryl Sulfate

Ingredients with unknown toxicological properties

Product is exempt

15.2 Chemical Safety Assessment A Chemical Safety Assessment has not been carried out.

Some hazardous ingredients listed in Section 15 are below OSHAs and WHMIS' 1.0% w/w (0.1% for carcinogens) or EU's ingredient specific concentrations required for reporting in Section 3.

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Section 16 Other Information

Beckman Coulter Safety Rating	Flammability: 0 Health: 3 Reactivity with Water: 0 Contact: 3	Code 0=None 1=Slight 2=Caution 3=Severe
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Hazard Class, hazard statements and risk phrase description from section 3

C - Corrosive
F - Highly flammable
T - Toxic
Repr. Cat. 2 - Toxic for Reproduction Category 2
Xn - Harmful
R10 Flammable.
R20/21/22 Harmful by inhalation, in contact with skin and if swallowed.
R47 May cause birth defects.
R60 May impair fertility.
R61 May cause harm to unborn child.
R35 Causes severe burns.
R11 Highly flammable.
R21/22 Harmful in contact with skin and if swallowed.
R36/37/38 Irritating to eyes, respiratory system and skin.
R20/21 Harmful by inhalation and in contact with skin.
R36 Irritating to eyes.
Acute Tox. Dermal 4 - Acute Toxicity Dermal, Category 4
Acute Tox. Inhal. 4 - Acute Toxicity Inhalation, Category 4
Acute Tox. Oral 4 - Acute Toxicity Oral, Category 4
Eye Irrit. 2 - Eye Irritation Category 2
Eye Irrit. 2A - Eye Irritation Category 2A
Flam. Liq. 3 - Flammable Liquids, Category 3
Flam. Sol. 2 - Flammable Solids, Category 2
Skin Corr. 1A - Skin Corrosion Category 1A
Skin Irrit. 2 - Skin Irritation Category 2
Repr. 1B - Toxic to Reproductive Category 1B
H226 - Flammable liquid and vapour.
H228 - Flammable solid.
H302 - Harmful if swallowed.
H312 - Harmful in contact with skin.
H314 - Causes severe skin burns and eye damage.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H360 - May damage fertility or the unborn child.

Section 16 Other Information (Continued)

Abbreviations and Acronyms

ACGIH - American Conference of Governmental Industrial Hygienists
ADR - European Agreement Concerning The International Carriage Of Dangerous Goods By Road
CERCLA - The Comprehensive Environmental Response, Compensation, and Liability Act
CLP - Classification, Labeling and Packaging
DFGMAK - Republic Germany's maximum exposure limit
GHS - Globally Harmonized System
HCS - Hazard Communication Standard
IARC - International Agency for Research on Cancer
IATA - International Air Transport Association
ICAO - International Civil Aviation Organization
IMDG - International Maritime Dangerous Goods
IOELVs - European Unions' Indicative Occupational Exposure Limit Values
NIOSH - National Institute for Occupational Safety and Health
NTP - National Toxicology Program
OSHA - Occupational Safety and Health Administration
PBT - Persistent bioaccumulative and toxic substances
SARA - Superfund Amendments and Reauthorization Act
TDG - Canadian Transportation Of Dangerous Goods Regulations.
UN GHS - United Nations Globally Harmonized System
US DOT - United States Department of Transportation
WHMIS - Workplace Hazardous Material Information System
vPvB - Very persistent and very bioaccumulative substances
LC50 - Lethal Concentration, 50%
LD50 - Lethal Dose, 50%
EC50 - Effective Concentration, 50%

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