



SAFETY DATA SHEET

according to WHMIS 2015 and ANSI Z400.1-2010

Revision date: 2/Jan/2017

Version: 3

Language: en-CA,US

Date of print: 10/Jan/2017

Contact Protection

Material number 111520

Page: 1 of 13

1. Product and company identification

Product identifier

Trade name: Contact Protection

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

General use: Technical aerosol

Details of the supplier of the safety data sheet

Company name: WEICON Inc.

Street/POB-No.: 20 Steckle Place, Unit 20

Postal Code, city: Kitchener, Ontario N2E 2C3, CA

WWW: www.weicon.ca

E-mail: info@weicon.ca

Telephone: +1-519-896-5252

Telefax: +1-519-896-5254

Dept. responsible for information:

Product-Safety-Department

Telephone: +49(0)251 / 9322 - 0, Email: msds@weicon.de

Emergency phone number

EMERGENCY CONTACT – Canada (24h): Tel: ++1 866 928 0789 (Toll free)

Transport:

TRANSPORT EMERGENCY CONTACT - Canada (24h): Tel: ++1 866 928 0789 (Toll free)

2. Hazards identification

Emergency overview

Appearance: Physical state at 20 °C and 101.3 kPa: liquid

Form: Aerosol

Color: colorless

Odor: like: petroleum

Classification: Aerosol 1; Skin Irritation 2; Specific Target Organ Toxicity (Single Exposure) 3; Specific Target Organ Toxicity (Repeated Exposure) 1; Aquatic toxicity - chronic 3;

Hazard symbols:



Signal word: **Danger**

Hazard statements: Extremely flammable aerosol.

Pressurised container: May burst if heated.

Causes skin irritation.

May cause drowsiness or dizziness.

Causes damage to organs through prolonged or repeated exposure.

Harmful to aquatic life with long lasting effects.



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Precautionary statements: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
Do not spray on an open flame or other ignition source.
Do not pierce or burn, even after use.
Do not breathe dust/fume/gas/mist/vapors/spray.
Wash hands and face thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Avoid release to the environment.
Wear protective gloves/protective clothing/eye protection/face protection.
IF ON SKIN: Wash with plenty of water/soap.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor if you feel unwell.
Specific treatment (see ' First aid ' on this label).
If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing.
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container to hazardous or special waste collection point.

Regulatory status

This material is considered hazardous by the U.S. OSHA Hazard Communication Standard (29 CFR 1910.1200) and SIMDUT in Canada.

Hazards not otherwise classified

Inhaling can lead to irritations of the respiratory tract and mucous membrane.
Higher doses may have a narcotic effect.
Exposure to temperatures exceeding 50 °C will increase pressure: resulting in danger of bursting or explosion.
Potentially explosive mixtures may form if adequate ventilation is not provided.
see section 11: Toxicological information

3. Composition / Information on ingredients

Chemical characterisation: Preparation of active ingredients with propellant



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Relevant ingredients:

CAS No.	Designation	Content	Classification
CAS 64742-81-0	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	10 - 20 %	Aspiration Toxicity 1. Aquatic toxicity - chronic 3.
CAS 64742-81-0	Kerosine (petroleum), hydrodesulfurized	10 - 20 %	Flammable Liquid 3. Skin Irritation 2. Specific Target Organ Toxicity (Single Exposure) 3. Aspiration Toxicity 1. Aquatic toxicity - chronic 2.
CAS 64742-53-6	Distillates (petroleum), hydrotreated light naphthenic	10 - 20 %	Aspiration Toxicity 1.
CAS 64742-82-1	Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	10 - 20 %	Specific Target Organ Toxicity (Repeated Exposure) 1. Aspiration Toxicity 1. Aquatic toxicity - chronic 3.
CAS 64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	1 - 2.5 %	Aspiration Toxicity 1.
CAS 111-76-2	2-Butoxyethanol	1 - 2.5 %	Acute Toxicity 4 (oral). Acute Toxicity 4 (dermal). Acute Toxicity 4 (inhalative). Skin Irritation 2. Eye Irritation 2A.
CAS 75-28-5	Isobutane, pure	10 - 20 %	Flammable Gas 1. Compressed Gas.
CAS 74-98-6	Propane	10 - 20 %	Flammable Gas 1. Compressed Gas.
CAS 106-97-8	Butane	2.5 - 10 %	Flammable Gas 1. Compressed Gas.

Additional information: Aliphatic hydrocarbons: => 30%
Aromatic hydrocarbons: 5 - 15%

4. First aid measures

General information: Take off immediately all contaminated clothing and wash it before reuse.

In case of inhalation: Move victim to fresh air, put at rest and loosen restrictive clothing.
In case of irregular breathing or respiratory arrest provide artificial respiration.
Seek medical attention.

Following skin contact: After contact with skin, wash immediately with soap and plenty of water. Consult a doctor if skin irritation persists.

After eye contact: Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. Remove contact lenses, if present and easy to do. Continue rinsing.
Subsequently consult an ophthalmologist.

After swallowing: Immediately get medical attention. Do not induce vomiting. Never give anything by mouth to an unconscious person.

Most important symptoms and effects, both acute and delayed

Causes skin irritation. May cause drowsiness or dizziness.
Inhalation causes narcotic effects/intoxication.

Information to physician

Treat symptomatically.



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5. Fire fighting measures

Flash point/flash point range:

No data available

Auto-ignition temperature: not determined

Suitable extinguishing media:

Foam, extinguishing powder, carbon dioxide

Extinguishing media which must not be used for safety reasons:

Full water jet

Specific hazards arising from the chemical

Extremely flammable aerosol.

Heating will lead to pressure increase: Danger of bursting and explosion.

May form dangerous gases and vapours in case of fire.

In case of fire may be liberated: carbon monoxide and carbon dioxide.

Potentially explosive vapor/air mixtures may form.

Protective equipment and precautions for firefighters:

Wear self-contained positive pressure breathing apparatus and full firefighting protective clothing.

Additional information:

Cool endangered containers with water jetspray. You have to dispose of contaminated extinguishing water according to the regulations of the authorities.

6. Accidental release measures

Personal precautions:

Provide adequate ventilation. Do not breathe gas/vapor/spray. Avoid contact with the substance.

Eliminate all ignition sources if safe to do so. Wear appropriate protective equipment. Keep unprotected people away.

Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects.

Environmental precautions:

Do not allow to enter into ground-water, surface water or drains.

In case of release, notify competent authorities. Danger of explosion!

Methods for clean-up:

Isolate leaked material using non-flammable absorption agent (e.g. sand, earth, vermiculit, diatomaceous earth) and collect it for disposal in appropriate containers in accordance with the local regulations (see section 13).

Beware of reignition. Thoroughly clean surrounding area.

Leaking cans, cans with spillage, are to be segregated, sprayed to empty state and disposed of. Refer to section 13 (Waste removal).

Additional information:

Use explosion-proof equipment and non-sparking tools/utensils.

7. Handling and storage

Handling

Advices on safe handling:

Provide adequate ventilation, and local exhaust as needed. Do not breathe gas/vapor/spray.

Avoid contact with skin and eyes. Do not spray into eyes or onto the skin. Wear appropriate protective equipment.

Guarantee sufficient ventilation during and after use, in order to prevent vapour accumulation.

Take off immediately all contaminated clothing and wash it before reuse.



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Precautions against fire and explosion:

Container under pressure. Do not open or incinerate, even when empty. Do not spray into flames or on incandescent objects. Keep away from sources of ignition - No smoking. Take precautionary measures against static discharges. Use only explosion-protected equipment/instruments. Do not weld. Vapors may form explosive mixtures with air.

Storage

Requirements for storerooms and containers:

Keep container tightly closed and in a well-ventilated place.
Keep container dry. Keep only in the original container.
Protect from heat and direct sunlight. Keep at temperature not exceeding 50 °C.
Store containers in upright position. Explosion protection required. Store locked up.

Hints on joint storage:

Do not store together with combustible or self-igniting materials or any highly flammable solids.
Keep away from food, drink and animal feedingstuffs.



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8. Exposure controls / personal protection

Exposure guidelines

Occupational exposure limit values:

CAS No.	Designation	Type	Limit value
64742-81-0	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%)	Canada, Alberta: OEL 8 hour	200 mg/m ³
64742-81-0	Kerosine (petroleum), hydrodesulfurized	Canada, Alberta: OEL 8 hour	200 mg/m ³
64742-47-8	Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics	Canada, BC: OEL TWA	200 mg/m ³ (May be absorbed through the skin.)
111-76-2	2-Butoxyethanol	Canada, Alberta: OEL 8 hour Canada, BC: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA USA: OSHA: TWA	97 mg/m ³ ; 20 ppm 20 ppm 97 mg/m ³ ; 20 ppm 97 mg/m ³ ; 20 ppm 24 mg/m ³ ; 5 ppm (May be absorbed through the skin.) 240 mg/m ³ ; 50 ppm (May be absorbed through the skin.)
75-28-5	Isobutane, pure	Canada, Ontario: OEL TWA USA: ACGIH: TWA USA: NIOSH: TWA	800 ppm 2370 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 800 ppm
74-98-6	Propane	Canada, Alberta: OEL 8 hour Canada, Québec: VEMP USA: NIOSH: TWA USA: OSHA: TWA	1000 ppm 1800 mg/m ³ ; 1000 ppm 1800 mg/m ³ ; 1000 ppm 1800 mg/m ³ ; 1000 ppm
106-97-8	Butane	Canada, Alberta: OEL 8 hour Canada, BC: OEL STEL Canada, BC: OEL TWA Canada, Ontario: OEL TWA Canada, Québec: VEMP USA: ACGIH: TWA USA: NIOSH: TWA	1000 ppm 750 ppm 600 ppm 800 ppm 1900 mg/m ³ ; 800 ppm 2370 mg/m ³ ; 1000 ppm 1900 mg/m ³ ; 800 ppm

Biological limit values:

CAS No.	Designation	Type	Limit value	Parameter	Sampling
111-76-2	2-Butoxyethanol	USA: ACGIH-BEI, urine	200 mg/g creatinine	Butoxyacetic acid (BAA)	end of exposure or end of shift

Engineering controls

Provide for good ventilation or exhaust system or work with completely self-contained equipment. Use only explosion-proof equipment.

See also information in chapter 7, section storage.

Personal protection equipment (PPE)

Eye/face protection: Tightly sealed goggles according to OSHA Standard - 29 CFR: 1910.133 or ANSI Z87.1-2010.



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Skin protection	Flame retardant, antistatic and chemical resistant protective clothing. Protective gloves according to OSHA Standard - 29 CFR: 1910.138 Glove material: Fluororubber (Viton) - Layer thickness: 0.4 mm Breakthrough time: > 240 min. Observe glove manufacturer's instructions concerning penetrability and breakthrough time.
Respiratory protection:	Respiratory protection must be worn whenever the TLV (WEL) levels have been exceeded. The filter class must be suitable for the maximum contaminant concentration (gas/vapor/aerosol/particulates) that may arise when handling the product. If the concentration is exceeded, closed-circuit breathing apparatus must be used!
General hygiene considerations:	Use only non-sparking tools. Keep away from sources of heat (e.g. hot surfaces), sparks and open flames. Do not breathe gas/vapor/spray. Avoid contact with skin and eyes. Take off contaminated clothing and wash it before reuse. When using do not eat, drink or smoke. Wash hands before breaks and after work.

9. Physical and chemical properties

Information on basic physical and chemical properties

Appearance:	Physical state at 20 °C and 101.3 kPa: liquid Form: Aerosol Color: colorless
Odor:	like: petroleum
Odor threshold:	not determined
pH value:	No data available
Melting point/freezing point:	not determined
Initial boiling point and boiling range:	≤ 0 °C
Flash point/flash point range:	No data available
Evaporation rate:	No data available
Flammability:	extremely flammable aerosol
Explosion limits:	LEL (Lower Explosion Limit): 1.20 Vol-% UEL (Upper Explosive Limit): 10.90 Vol-%
Vapor pressure:	No data available
Vapor density:	No data available
Density:	at 20 °C: 0.7 g/mL
Water solubility:	practically insoluble
Partition coefficient: n-octanol/water:	No data available
Auto-ignition temperature:	not determined
Thermal decomposition:	No data available
Explosive properties:	Product is not explosive. Potentially explosive vapor/air mixtures may form.
Ignition temperature:	> 200 °C

10. Stability and reactivity

Reactivity:	Extremely flammable aerosol. Vapors may form explosive mixtures with air.
Chemical stability:	Stable under recommended storage conditions.



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Possibility of hazardous reactions

Container under pressure.
Heating will lead to pressure increase: Danger of bursting and explosion.

Conditions to avoid: Keep away from heat sources, sparks and open flames.
Protect from direct exposure to sunlight and temperatures exceeding 50 °C.

Incompatible materials: Do not store together with combustible or self-igniting materials or any highly flammable solids.

Hazardous decomposition products:
May form dangerous gases and vapours in case of fire.
In case of fire may be liberated: carbon monoxide and carbon dioxide.

Thermal decomposition: No data available

11. Toxicological information

Toxicological tests

Toxicological effects: The statements are derived from the properties of the single components. No toxicological data is available for the product as such.

Acute toxicity (oral): Lack of data.
Acute toxicity (dermal): Lack of data.
Acute toxicity (inhalative): Lack of data.
Skin corrosion/irritation: Skin Irritation 2 = Causes skin irritation.
Eye damage/irritation: Lack of data.
Sensitisation to the respiratory tract: Lack of data.
Skin sensitisation: Lack of data.
Germ cell mutagenicity/Genotoxicity: Lack of data.
Carcinogenicity: Lack of data.
Reproductive toxicity: Lack of data.
Effects on or via lactation: Lack of data.
Specific target organ toxicity (single exposure): Specific Target Organ Toxicity (Single Exposure) 3 = May cause drowsiness or dizziness.
Specific target organ toxicity (repeated exposure): Specific Target Organ Toxicity (Repeated Exposure) 1 = Causes damage to organs through prolonged or repeated exposure.
Aspiration hazard: Based on available data, the classification criteria are not met.

Other information: Information about Isobutane:
LC50 Rat, inhalative: >50 mg/L/4h
Information about Propane:
LC50 Rat, inhalative: 20 mg/L/4h
Information about Butane:
LC50 Rat, inhalative: 658 mg/L/4h
Information about 2-Butoxyethanol:
LD50 Rat, oral: 1480 mg/kg
LD50 Rabbit, dermal: 400 mg/kg

Symptoms

Inhaling can lead to irritations of the respiratory tract and mucous membrane.



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12. Ecological information

Ecotoxicity

Aquatic toxicity: Harmful to aquatic life with long lasting effects.

Mobility in soil

No data available

Persistence and degradability

Further details: No data available

Additional ecological information

Volatile organic compounds (VOC):

85.8 % by weight = 603.9 g/L

General information: Do not allow to enter into ground-water, surface water or drains.

13. Disposal considerations

Product

Recommendation: Dispose of waste according to applicable legislation.

Contaminated packaging

Recommendation: Dispose of waste according to applicable legislation. Handle empty containers with care. Incineration may cause explosion. Spray can must be completely empty for proper waste disposal.

14. Transport information

USA: Department of Transportation (DOT)

Identification number: UN1950
Proper shipping name: UN 1950, AEROSOLS
Hazard class or Division: 2.1
Labels: 2.1
Special provisions: N82
Packaging – Exceptions: 306
Packaging – Non-bulk: None
Packaging – Bulk: None
Quantity limitations – Passenger aircraft / rail: 75 kg
Quantity limitations – Cargo only: 150 kg
Vessel stowage – Location: A
Vessel stowage – Other: 25, 87, 126



Canada: Transportation of Dangerous Goods (TDG)

UN Number: UN1950
Shipping name: UN 1950, AEROSOLS
TDG class: 2.1
Special provisions: 80, 107
Explosive limit and limited quantity index: 1 L
Passenger carrying road or rail index: 75 L



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Sea transport (IMDG)

UN number: UN 1950
Proper shipping name: UN 1950, AEROSOLS
Class or division, Subsidiary risk: Class 2.1, Subrisk-
Packing Group: -
EmS: F-D, S-U
Special provisions: 63, 190, 277, 327, 344, 381,959
Limited quantities: 1000 mL
Excepted quantities: E0
Contaminated packaging - Instructions: P207, LP200
Contaminated packaging - Provisions: PP87, L2
IBC - Instructions: -
IBC - Provisions: -
Tank instructions - IMO: -
Tank instructions - UN: -
Tank instructions - Provisions: -
Stowage and handling: SW1 SW22
Segregation: SG69
Properties and observations: -
Marine pollutant: no
Segregation group: none

Air transport (IATA)

UN/ID number: UN 1950
Proper shipping name: UN 1950, AEROSOLS, flammable
Class or division, Subsidiary risk: Class 2.1
Hazard label: Flamm. gas
Excepted Quantity Code: E0
Passenger and Cargo Aircraft: Ltd.Qty.: Pack.Instr. Y203 - Max. Net Qty/Pkg. 30 kg G
Passenger and Cargo Aircraft: Pack.Instr. 203 - Max. Net Qty/Pkg. 75 kg
Cargo Aircraft only: Pack.Instr. 203 - Max. Net Qty/Pkg. 150 kg
Special provisions: A145 A167 A802
Emergency Response Guide-Code (ERG): 10L

15. Regulatory information

National regulations - Canada

No data available



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National regulations - U.S. Federal Regulations

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Kerosine (petroleum), hydrodesulfurized:

Distillates (petroleum), hydrotreated light naphthenic:

Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%):

Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics:

2-Butoxyethanol:

TSCA Inventory: listed; UVCB

TSCA HPVC: not listed

TSCA Inventory: listed; UVCB

TSCA HPVC: not listed

TSCA Inventory: listed; UVCB

TSCA HPVC: not listed

TSCA Inventory: listed; UVCB

TSCA HPVC: not listed

TSCA Inventory: listed; UVCB

TSCA HPVC: not listed

TSCA Inventory: listed

TSCA HPVC: not listed

Carcinogen Status:

IARC Rating: Group 3

OSHA Carcinogen: not listed

NTP Rating: not listed

Clean Air Act:

SOCMI Chemical: yes

NIOSH Recommendations:

Occupational Health Guideline: 0070*

Isobutane, pure:

TSCA Inventory: listed

TSCA HPVC: not listed

Clean Air Act:

Accidental Release Prevention: Threshold 10000

lbs. / Basis for listing = f

NIOSH Recommendations:

Occupational Health Guideline: 0350*

Propane:

TSCA Inventory: listed

TSCA HPVC: not listed

Clean Air Act:

Accidental Release Prevention: Threshold 10000

lbs. / Basis for listing = f

NIOSH Recommendations:

Occupational Health Guideline: 0524

Butane:

TSCA Inventory: listed

TSCA HPVC: not listed

Clean Air Act:

Accidental Release Prevention: Threshold 10000

lbs. / Basis for listing = f

NIOSH Recommendations:

Occupational Health Guideline: 0068*



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National regulations - U.S. State Regulations

2-Butoxyethanol:

California Proposition 65 code: not listed
Idaho Air Pollutant List:
Title 585: AAC: 6 - EL: 8 - OEL: 120 - Title 586: --
Massachusetts Haz. Substance codes: 2,4,6 F8
Minnesota Haz. Substance:
Codes: AO - Ratings: 9.19 - Status: --
Pennsylvania Haz. Substance code: --
Washington Air Contaminant:
TWA: 25 ppm - 120 mg
Skin: Protective measures should be taken to prevent or reduce skin absorption.

Isobutane, pure:

California Proposition 65 code: -
Delaware Air Quality Management List:
DRQ: F 1000** - RQ State: State requirements differs from Federal
Massachusetts Haz. Substance codes: 6
New Jersey RTK Hazardous Substance:
DOT: 1969 - Sub No.: 1040 - TPQ: -
Pennsylvania Haz. Substance code: -

Propane:

California Proposition 65 code: -
Delaware Air Quality Management List:
DRQ: F 1000** - RQ State: State requirements differs from Federal
Massachusetts Haz. Substance codes: 2,4,5,6
Minnesota Haz. Substance:
Codes: AP - Ratings: - - Status: Title III
New Jersey RTK Hazardous Substance:
DOT: 1978 - Sub No.: 1594 - TPQ: -
Pennsylvania Haz. Substance code: -
Washington Air Contaminant:
TWA: 1000 ppm - 1800 mg

Butane:

Delaware Air Quality Management List:
DRQ: F 1000** - RQ State: State requirements differs from Federal
Massachusetts Haz. Substance codes: 4,5,6
Minnesota Haz. Substance:
Codes: A - Ratings: - - Status: Title III
New Jersey RTK Hazardous Substance:
DOT: 1011 - Sub No.: 0273 - TPQ: -
Pennsylvania Haz. Substance code: -
Washington Air Contaminant:
TWA: 800 ppm - 1900 mg

16. Other information

Text for labeling:

Contains 10 - 20 % Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), 10 - 20 % Kerosine (petroleum), hydrodesulfurized, 10 - 20 % Distillates (petroleum), hydrotreated light naphthenic, 10 - 20 % Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, aromatics (2-25%), 1 - 2.5 % Hydrocarbons, C11-C14, n-alkanes, isoalkanes, cyclics, <2% aromatics, 1 - 2.5 % 2-Butoxyethanol, 10 - 20 % Isobutane, pure, 10 - 20 % Propane, 2.5 - 10 % Butane. Safety data sheet available on request.



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Hazard rating systems:



NFPA Hazard Rating:

Health: 2 (Moderate)

Fire: 4 (Severe)

Reactivity: 0 (Minimal)

HMIS Version III Rating:

Health: 2 (Moderate) - Chronic effects

Flammability: 4 (Severe)

Physical Hazard: 0 (Minimal)

Personal Protection: X = Consult your supervisor

HEALTH	*	2
FLAMMABILITY		4
PHYSICAL HAZARD		0
		X

Reason of change:

ADR/RID 2017, IMDG 2017

Date of first version:

29/Dec/2015

Department issuing data sheet

Contact person:

see section 1: Dept. responsible for information

The information in this data sheet has been established to our best knowledge and was up-to-date at time of revision. It does not represent a guarantee for the properties of the product described in terms of the legal warranty regulations.