

Material Safety Data Sheet

Product name

Butane Gas Cartridge

1. Product and company identification

- a) Product name Butane Gas Cartridge
- b) Recommended use of product and limitations
- Recommended Use of product For use only in portable gas appliances
 - Limitations Extremely flammable
- c) Manufacturer / Supplier Information
- Company ADA Import & Großvertriebs GmbH
 - Address Bergiusstr. 53-59
12057 Berlin, Germany
 - Emergency phone number +49-30-767647-0

2. Hazards identification

- a) Hazard-Risk Classification
- Flammable gases : 1
Gases under pressure : liquefied gas or Refrigerated liquefied gas
Specific target organ toxicity (single exposure) : 3 (narcosis)

- b) Label elements including precautionary
- Symbol



- Signal word Danger
- Hazard-risk statement
H220 Extremely flammable gas
H280 Contains gas under pressure may explode if heated
H281 Contains refrigerated gas; may cause cryogenic burns or injury.
H336 May cause drowsiness or dizziness
- Precautionary statement
Prevention
P210 Keep away from heat/sparks/open flames/hot surfaces. - No smoking
P261 Avoid breathing dust/fumes/gas/mist/vapours/spray.
P271 Use only outdoors or in a well-ventilated area.
P282 Wear cold insulating gloves/face shield/eye protection.
Response
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing
P312 Call a medical center(doctor) if you feel unwell.
P315 Get immediate medical advice/attention.
P336 Thaw frosted parts with lukewarm water. Do not rub affected areas.
P362+P364 Take off contaminated clothing and wash it before reuse.
P377 Leaking gas fire: Do not extinguish, unless leak can be stopped safely
P381 Eliminate all ignition sources if safe to do so
Storage
P403 Store in a well-ventilated place
P403+P233 Store in a well ventilated place. Keep container tightly closed.
P405 Store locked up.
P410+P403 Protect from sunlight. Store in a well-ventilated place.
Disposal
P501 Dispose of contents or container in accordance with

local/regional/national international regulations.

- d) Ingestion Seek medical attention immediately.
- e) Notes for physician Keep a doctor to recognize chemical substance and take care of patients.

5. Fire-fighting measures

- a) Suitable (and unsuitable) extinguishing media. CO₂, dry chemical, water spray or fog for surrounding area
Use dry sand or earth for the smothering extinguishment
- b) Specific hazards arising from the chemical
Extreme flammable gas
A leakage of material may present a fire / explosion risk.
There is a risk of steam explosion in indoor, outdoor and sewer.
It will ignite easily by heat, spark and flame.
Vapors may ignite and explode.
Shut off source of propane, if possible, dilute leakage of water.
Easily ignited by heat, sparks and flames.
Steam can move back to the ignition source and flash back Vapor may cause dizziness or asphyxiant without awareness
Some constituents may be irritating when inhaled at high concentrations.
Cylinders exposed to fire may release flammable gas.
Note that some part can leave flammable residue after evaporation
- c) Special protective equipment and precautions for fire-fighters
Keep away from contact with clothing and other combustible materials to avoid
Avoid friction or rough handling because of fire hazard.
Allow gas to burn if flow cannot be shut off.
Eliminate sources of ignition.
Evacuate area and fight fire from a safe distance.
Leaking gas fire : do not stop extinguish unless leak can be stopped safely.
Move container from fire area if it is not dangerous.
Be careful that broken cylinders may fly over.
Isolate the hazard area and deny entry to unnecessary and unprotected personnel. Do not touch the exposure source or safety device directly, as it may freeze in the In case of a tank fire, use fire extinguisher at enough distance or use unmanned After fire has extinguished, flush with plenty of water for a long time to cool In case of a tank fire, immediately leave the fire area if there is treble sound or discoloration of the tank.
In case of a tank fire, get out of the area If the tank is in flames
Evacuate in accordance of accident situation. (Evacuation radius : 0.8 km, The spread range varies depending on the location of the accident and the fire fighting way to be taken.) Rapidly excess heating or fire will be caused burst or rupture of a container. (In case at elevated temperatures(over 54 °C/130°F) CRV of containers will be operated.

6. Accidental release measures

- a) Personal precautions, protective equipment and emergency procedures
Use non-sparking equipment when cleaning up flammable spill.
In closed spaces, wear a self-contained breathing apparatus and ventilate.
Isolate the hazard area and deny entry to unnecessary and unprotected personnel.
Avoid inhalation and skin contact, contaminated clothing should be changed.
Contain spilled liquid with sand or earth. do NOT use combustible materials.
Dust can be a fire or explosion hazard.
Immediately wipe the spill, follow precautions for protective equipment.
- a) Personal precautions, protective equipment and emergency procedures
(Continued)
If possible, turn the leak valve of container to be released as gas rather than Ventilate the contaminated area.
Do not touch the leak source directly.
Using water spray to reduce the vapor or vapor clouds of gas and do not allow Always ground all equipment when handling material.

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| b) Environmental precautions and protective procedures | <p>Keep out of drains, sewers, ditches and waterways.</p> <p>Use appropriate container to avoid environmental contamination.</p> <p>Cover with absorbent or contain, Collect and dispose.</p> |
| d) Methods and materials for containment | <p>If possible, release in vapor by turning over leaking container.</p> <p>Clean the contaminated zone using cleanser and water.</p> <p>Use water spray/fog for prevent spread.</p> |

7. Handling and storage

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| a) Precautions for safe handling | <p>To avoid sudden release of pressure, loosen closure cautiously before opening.</p> <p>Avoid inhalation, skin and eyes.</p> <p>Use only clean, dry utensils in handling.</p> <p>Minimize dust generation and accumulation.</p> <p>Do not smoke or use matches or lighters during use and until vapors are gone.</p> <p>To dissipate static electricity during transfer, ground drum and connect to receiving container with bonding strap.</p> <p>Avoid prolonged or repeated skin contact.</p> <p>Wash thoroughly after handling.</p> <p>Avoid breathing gas or vapor.</p> |
| b) Conditions for safe storage (including any incompatibilities) | <p>Keep away from heat, spark and flame – No Smoking.</p> <p>Avoid direct sunlight and store in a well-ventilated place.</p> <p>The empty cylinder should be completely drained, properly blocked and immediately returned to the cylinder regulator. Place it properly.</p> <p>Stored containers should be periodically checked for general conditions and leakage.</p> <p>Keep container tightly closed.</p> <p>Store in a cool, well-ventilated area.</p> |

8. Exposure controls and personal protection

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| a) Control parameter and Biological Exposure Indices | |
| Domestic regulation | |
| Propane | TWA - 1,000ppm 1,800mg/m ³ |
| n-Butane | TWA - 800ppm 1,900mg/m ³ |
| iso-Butane | TWA - 800ppm 1,900mg/m ³ |
| n-Pentane | No Data Available |
| iso-Pentane | No Data Available |
| ACGIH TLV-TWA (Threshold Limit Value - Time Weighted Average) | |
| Propane | TWA 1,000 ppm 8hours (3/2012) |
| n-Butane | TWA 1,000 ppm 8hours (3/2012) |
| iso-Butane | TWA 1,000 ppm 8hours (3/2012) |
| n-Pentane | TWA 600 ppm 8hours (3/2012) |
| iso-Pentane | TWA 600 ppm 8hours (3/2012) |
| Biological Exposure Indices (BEI) | |
| Propane | No Data Available |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | No Data Available |

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| b) Appropriate engineering controls | Adequate ventilation should be provided so that exposure limits are not exceeded. In case of risk explosion, use explosion-proof ventilation equipment. |
| c) Personal protective equipment | |
| - Respiratory protection | Use NIOSH approved positive-pressure, supplied air respirator with escape bottle. |
| - Eye protection | Where there is a possibility of liquid contact, wear splash-proof safety goggles and face-shield. |
| - Hands protection | Use cold-impervious, insulating gloves where contact with liquid may occur. |
| - Body protection | Where contact with liquid may occur, wear apron and face-shield. |

9. Physical and chemical properties

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| a) Appearance | |
| - Color | Colorless |
| - Physical state | Gas, liquid at low temperature, high pressure |
| b) Odor | Odorless (before injecting an odorizer), Characteristic odor (after injecting an odorizer) |
| c) Odor threshold | The odor of gas shall be detected when the gas/air compound ratio reaches 1/1000. (after injecting an odorizer) |
| d) pH | Not applicable |
| e) Melting /freezing point | About -155 ~ -138 °C |
| - Propane | -187.68 °C |
| - n-Butane | -138.29 °C |
| - iso-Butane | -159.61 °C |
| - n-Pentane | -129.8 °C |
| - iso-Pentane | -159.9 °C |
| f) Initial boiling point and boiling range | About -10 ~ 0 °C |
| - Propane | -42.11 °C |
| - n-Butane | -0.49 °C |
| - iso-Butane | -11.75 °C |
| - n-Pentane | 36.1 °C |
| - iso-Pentane | 27.85 °C |
| g) Flash point | About -75 ~ -60 °C |
| - Propane | -104 °C |
| - n-Butane | -60 °C |
| - iso-Butane | -83 °C |
| - n-Pentane | -49 °C |
| - iso-Pentane | -51 °C |
| h) Evaporation rate | No Data Available |
| i) Flammability (liquid, gas) | Flammable gas |
| j) Upper / lower flammability | About 8.4 % / 1.6 % |
| - Propane | 9.5% / 2.1% |
| - n-Butane | 8.4% / 1.6% |
| - iso-Butane | 9.6% / 1.8% |
| - n-Pentane | 7.8 % / 1.4 % |
| - iso-Pentane | 9.2 % / 1.3 % |

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| k) Vapor pressure | About 2.5 Bar (at 21 °C) |
| - Propane | 8.587 Bar (at 21 °C) |
| - n-Butane | 2.148 Bar (at 21 °C) |
| - iso-Butane | 3.126 Bar (at 21 °C) |
| - n-Pentane | 0.5790 Bar (at 20 °C) |
| - iso-Pentane | 0.795 Bar (at 21 °C) |
| l) Solubility | About 60mg/L (at 25 °C) |
| - Propane | 62.5mg/L (at 25 °C) |
| - n-Butane | 61mg/100mL (at 20 °C) |
| - iso-Butane | 48.9mg/L (at 25 °C) |
| - n-Pentane | 40.2mg/L (at 20 °C) |
| - iso-Pentane | 48 mg/L (at 25 °C) |
| m) Vapor density | About 2 (air=1) |
| - Propane | 1.55 |
| - n-Butane | 2.07 |
| - iso-Butane | 2.01 |
| - n-Pentane | 2.48 |
| - iso-Pentane | 2.5 |
| n) Specific gravity | About 0.58 (at 15 °C) |
| - Propane | 0.58088 kg/L (at boiling point, 1.013bar) |
| - n-Butane | 0.60126 kg/L (at boiling point, 1.013bar) |
| - iso-Butane | 0.59382 kg/L (at boiling point, 1.013bar) |
| - n-Pentane | 0.626 kg/L |
| - iso-Pentane | 0.616 kg/L (at boiling point, 1.013bar) |
| o) Partition coefficient (n-octanol / water) | About 2.85 (log Kow) |
| - Propane | 2.36 |
| - n-Butane | 2.89 |
| - iso-Butane | 2.76 |
| - n-Pentane | 3.39 |
| - iso-Pentane | 2.3 |
| p) Autoignition temperature | About 260 °C (The Lowest temperature of all substance) |
| - Propane | 470 °C |
| - n-Butane | 430 °C |
| - iso-Butane | 460 °C |
| - n-Pentane | 260 °C |
| - iso-Pentane | 420 °C |
| q) Decomposition temperature | No Data Available |
| r) Viscosity | No Data Available |
| s) Molecular weight | About 58.4 |
| - Propane | 44.0965 |
| - n-Butane | 58.1234 |
| - iso-Butane | 58.1234 |
| - n-Pentane | 72.1503 |
| - iso-Pentane | 72.1503 |

10. Stability and reactivity

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| a) Chemical stability and possibility of hazardous reactions | Extreme Flammable gas. A leakage of material may present a fire / explosion risk. There is a risk of steam explosion in indoor, outdoor and sewer. It will ignite easily by heat, spark and flame. Vapors may ignite and explode. Vapor can move to the ignition source and flash back. Vapors may cause dizziness or asphyxiant without awareness Cylinders exposed to fire may release flammable gas. |
| b) Conditions to avoid | Keep away from strong oxidizers, ignition sources and heat – no smoking. |
| c) Incompatible materials | No Data Available |
| d) Hazardous decomposition products | Carbon monoxide, carbon dioxide and non-combusted hydrocarbons(smoke). |

11. Toxicological information

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| a) Information on the likely routes of exposure | |
| - Propane | nausea, vomiting, irregular heart rate, headaches, drowsiness, dizziness, disorientation, emotional lability, inebriation, adjustment (feature) loss, asphyxiant, convulsion, loss of consciousness, lethargy, shortness of breath, central nervous system (CNS) depression. Ingestion of a hazardous amount is unlikely to occur. may cause freeze burns and frostbite. |
| - n-Butane | It can cause stimulus, nausea, vomiting, shortness of breath, irregular heart rate, headaches, drowsiness, fatigue, dizziness, disorientation, emotional lability, inebriation, adjustment (feature) loss, asphyxiant, convulsion, loss of consciousness, lethargy. |
| - iso-Butane | It can cause stimulus, nausea, vomiting, headaches, drowsiness, fatigue, dizziness, emotional lability, adjustment (feature) loss, asphyxiant, convulsion, loss of consciousness, lethargy. may cause freeze burns and frostbite |
| - n-Pentane | It can cause stimulus, nausea, vomiting, stomach ache, shortness of breath, headaches, drowsiness, dizziness, adjustment (feature) loss, asphyxiant. Ingestion of a hazardous amount is unlikely to occur. |
| - iso-Pentane | It can cause stimulus, nausea, vomiting, stomach ache, shortness of breath, headaches, drowsiness, dizziness, adjustment (feature) loss, asphyxiant. Ingestion of a hazardous amount is unlikely to occur. |
| b) Health hazards information | |
| - Acute toxic | No Data Available |
| Oral | |
| Dermal | No Data Available |
| Propane | No Data Available |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | LC50 > 2,000 mg/kg Rat |
| iso-Pentane | |
| Inhalation | |
| Propane | LD50 570,000 ppm 15 min Rat |
| n-Butane | LC50 277,374 ppm 4 hr Rat |
| iso-Butane | LC50 658,000mg/ m ³ 4 hr Rat |
| n-Pentane | LC50 364,000mg/ m ³ 4 hr Rat |
| iso-Pentane | LC50 280,000mg/ m ³ 4 hr Rat |

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| - Skin corrosive / irritant | |
| Propane | No Data Available (EU Directive 67/548) rabbit /irritating (IUCLID) |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | Non-stimulated (rabbit) |
| - Serious eye damage / eye irritation | |
| Propane | No Data Available (EU Directive 67/548/EEC) Rabbit/ not irritating (IUCLID) |
| n-Butane | Non-stimulated (rabbit) |
| iso-Butane | Non-stimulated (rabbit) |
| n-Pentane | No Data Available |
| iso-Pentane | High-concentrated vapor can stimulate eye. |
| - Respiratory sensitization | No Data Available |
| - Skin sensitization | |
| Propane | No Data Available |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | Negative (from the result of Maximization test using a guinea pig) |
| - Carcinogenicity | Not applicable |
| The occupational safety and health act (domestic) | No Data Available |
| Labor Ministry Notice | Not Listed |
| propane | Not Listed |
| n-Butane | Not Listed |
| iso-Butane | Not Listed |
| n-Pentane | Not Listed |
| iso-Pentane | Not Listed |
| IARC | Not Listed |
| OSHA | Not Listed |
| ACGIH | No Data Available |
| NTP | Not Listed |
| - EU CLP | |
| Propane | No Data Available |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | No Data Available |
| - Germ cell mutagenicity | |
| Propane | No Data Available |
| n-Butane | Back mutation test using microorganism – negative |
| iso-Butane | Back mutation test using microorganism – negative |
| n-Pentane | No Data Available |
| iso-Pentane | Mammal bone marrow micronucleus test – negative |

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|---|---|
| - Reproductive toxicity | 0 |
| Propane | No Data Available |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | First generation reproductive toxicity test result : No reproductive toxicity was |
| - Specific target organ toxicity (single exposure) | Not applicable (EU Directive 67/548/EEC) |
| Propane | No Data Available |
| n-Butane | In high concentration, causing narcosis and depressing-central nervous system. |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | Narcotization was reported for inhalation exposure : Rat |
| - Specific target organ toxicity (repeated exposure) | |
| Propane | No Data Available |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | No Data Available |
| - Aspiration hazard | No Data Available |

12. Ecological information

a) Aquatic and terrestrial ecotoxicity

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|--------------|--|
| - fish | |
| Propane | LC50 > 100 mg/L 96 hr ((Species : Fish TLm)) |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | No Data Available |
| - Crustacean | |
| Propane | LC50 52.157 mg /L 48 hr |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | EC50 2.3 mg/L 48 hr |
| - Algae | |
| Propane | LC50 32.252 mg /l 96 hr |
| n-Butane | No Data Available |
| iso-Butane | No Data Available |
| n-Pentane | No Data Available |
| iso-Pentane | No Data Available |

b) Persistence and degradability

| | |
|-----------------|-------------------|
| - Persistence | |
| Propane | log Kow 2.36 |
| n-Butane | log Kow 2.89 |
| iso-Butane | log Kow 2.76 |
| n-Pentane | No Data Available |
| iso-Pentane | log Kow 2.30 |
| - Degradability | No Data Available |

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|------------------------------|---|
| c) Bioaccumulative potential | |
| - Accumulative | |
| Propane | BCF 13 |
| n-Butane | No Data Available |
| iso-Butane | BCF 1.57~1.97 |
| n-Pentane | No Data Available |
| iso-Pentane | No Data Available |
| - Biodegradability | |
| Propane | 65.7% 35day |
| n-Butane | 65.7% 35day (aerobic, microbes, well-decomposed) |
| iso-Butane | 65.7% 36day (aerobic, microbes, well-decomposed) |
| n-Pentane | No Data Available |
| iso-Pentane | No Data Available |
| d) Mobility in soil | No Data Available |
| e) Other adverse effects | No Data Available (the components ratio of pentanes is less than 2.5 %) |

13. Disposal considerations

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|------------------------|---|
| a) Disposal method | All disposal practices must be in compliance with all laws and regulations with elimination of the risk of explosion. |
| b) Disposal precaution | Beware of fire and explosion hazards due to residual gas in the container like cylinder or tank. Disposal should be in accordance with applicable regional, national and local laws and regulations. |

14. Transport information

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|-------------------------------------|--|
| a) UN number | 2037 |
| Propane | 1978 |
| n-Butane | 1969 |
| iso-Butane | 1011 |
| b) UN proper shipping name | RECEPTACLES, SMALL, CONTAINING GAS (GAS CARTRIDGES) without a release device, non-refillable |
| c) Transport hazard class(es) | 2.1 |
| d) Packing group, if applicable | No Data Available |
| e) Environmental hazards | No Data Available |
| f) Special precaution for user | |
| - emergency procedures in a fire | F-D |
| - emergency procedures with the gas | S-U |

15. Regulatory information

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|---|--------------------------------|
| a) Regulations by the occupational safety and health agency | |
| Propane | Not applicable |
| n-Butane | Substance with exposure limits |
| iso-Butane | Not applicable |
| n-Pentane | Not applicable |
| iso-Pentane | Not applicable |

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|---|---|
| b) Act on registration, evaluation, etc of chemicals (domestic) | |
| Propane | Not Listed |
| n-Butane | Not Listed |
| iso-Butane | Not Listed |
| n-Pentane | Not Listed |
| iso-Pentane | Not Listed |
| c) Chemicals control act (domestic) | |
| Propane | Not Listed |
| n-Butane | Not Listed |
| iso-Butane | Not Listed |
| n-Pentane | Not Listed |
| iso-Pentane | Not Listed |
| d) Regulation by the act on the safety control of hazardous substances (domestic) | |
| | Not applicable |
| e) Regulation by wastes control act (domestic) | |
| Propane | Designated waste material |
| n-Butane | Designated waste material |
| iso-Butane | Designated waste material |
| n-Pentane | No Data Available |
| iso-Pentane | No Data Available |
| f) The other regulation by domestic and foreign act | |
| - Domestic regulation | |
| Persistent organic pollutants control act | Not applicable |
| High-pressure gas safety control act | Flammable, Liquefied gas |
| Safety control and business of liquefied petroleum gas act | Liquefied petroleum gas |
| - Foreign regulation | |
| OSHA regulation | Not regulated |
| CERCLA103 (40CFR302.4) | Not regulated |
| SARA302 (40CFR355.30) | Not regulated |
| SARA304 (40CFR355.40) | Not regulated |
| SARA311/312 (40CFR370.21) | Not regulated |
| SARA313 (40CFR372.65) | Not regulated |
| EPCRA (section302) | Not regulated |
| EPCRA (section304) | Not regulated |
| EPCRA (section 313) | Not regulated |
| Rotterdam Convention | Not regulated |
| Stockholm Convention | Not regulated |
| Montreal protocol | Not regulated |
| EU REACH (classification result) | F+; R12 |
| iso-Pentane | F+; R12 Xn; R65, R66, R67 N; R51/53 |
| EU REACH (risk statement) | R12 |
| Propane | R12 |
| n-Butane | R12,R67 |
| iso-Butane | R12 |
| n-Pentane | R12, R51/53, R65, R66, R67 |

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|----------------------------|----------------------------|
| EU REACH(safety statement) | S2, S9, S16 |
| Propane | S2, S9, S16 |
| n-Butane | S2, S9, S16 |
| iso-Butane | S2, S9, S16 |
| n-Pentane | S2, S9, S16, S33, S61, S62 |
| iso-Pentane | S2, S9, S16, S33, S61, S62 |

16. Other information

a) Information source and references

ECB-ESIS(European chemical Substances Information System)(<http://ecb.jrc.it/esis>)
 ECOTOX Database, EPA(<http://cfpub.epa.gov/ecotox>)
 IUCLID Chemical Data Sheet, EC-ECB
 International Chemical Safety Cards(ICSC)(<http://www.nihs.go.jp/ICSC>)
 TOXNET, U.S. National Library of Medicine(<http://toxnet.nlm.nih.gov>)
 The Chemical Database, The Department of Chemistry at the University of Akron(<http://ull.chemistry.uakron.edu/erd>)
 Transport of Dangerous Goods - UN
 Chemical Information System, National Environmental Science Institute(<http://ncis.nier.go.kr>)
 Korea Occupational Safety and Health Agency MSDS Database
 Corporate Solution From Thomson Micromedex(<http://csi.micromedex.com>)
 Industrial poisoning handbook, Shin Kwang Publishing Co.
 Dangerous Material Information Management System, National Emergency Management Agency
 (<http://hazmat.nema.go.kr>)
 UN RTDG
 ICSC
 PATTY(4th, 1994)
 ACGIH (7th, 2001)
 Air liquide (<http://encyclopedia.airliquide.com>)
 Airgas (<http://www.airgas.com>)
 Wikipedia (<http://en.wikipedia.org>) GHS
 (Rev.7) (2017) 7th Ed

b) First Date Created

c) Number of revisions and date of last revision

Number of revisions

Date of last revision

d) The other information

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