

CF-AS CJP

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Revision date: 4/25/2025 Issue date: 4/25/2025 Supersedes: 5/5/2022 Version: 3.0

SECTION 1: Identification

1.1. Identification

| | |
|--------------|-------------------------|
| Product form | Mixture |
| Trade name | CF-AS CJP |
| Product code | BU Fire Protection Foam |

1.2. Recommended use and restrictions on use

No additional information available

1.3. Supplier

| Supplier | Department issuing data specification sheet |
|--|--|
| Hilti, Inc. | Hilti AG |
| Legacy Tower, Suite 1000 | Feldkircherstraße 100 |
| 7250 Dallas Parkway | FL 9494 Schaan |
| US TX 75024 Plano | Liechtenstein |
| USA | T +423 234 2111 |
| T +1 9724035800 | product.compliance-fire.protection@hilti.com |
| 1-800-879-8000 toll free, F +1 918 254 0522 | |
| us-sales@hilti.com | |

1.4. Emergency telephone number

| | |
|------------------|-------------------------------------|
| Emergency number | Emergency CONTACT (24-Hour-Number) |
| | GBK/Infotrac ID 101022 |
| | (USA domestic) 1 800 535 5053 |
| | or international (001) 352 323 3500 |

SECTION 2: Hazard(s) identification

2.1. Classification of the substance or mixture

GHS-US classification

| | | |
|--|------|--|
| Flammable aerosols, Category 1 | H222 | Extremely flammable aerosol. |
| Acute toxicity (inhalation:dust,mist) Category 4 | H332 | Harmful if inhaled. |
| Skin corrosion/irritation, Category 2 | H315 | Causes skin irritation. |
| Serious eye damage/eye irritation, Category 2 | H319 | Causes serious eye irritation. |
| Respiratory sensitisation, Category 1 | H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| Skin sensitisation, Category 1 | H317 | May cause an allergic skin reaction. |
| Carcinogenicity, Category 2 | H351 | Suspected of causing cancer. |
| Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation | H335 | May cause respiratory irritation. |
| Specific target organ toxicity – Repeated exposure, Category 2 | H373 | May cause damage to organs through prolonged or repeated exposure. |

Full text of H-statements: see section 16

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2.2. GHS Label elements, including precautionary statements

GHS US labelling

Hazard pictograms (GHS US)



Signal word (GHS US)

Danger

Hazard statements (GHS US)

H222 - Extremely flammable aerosol.
H315 - Causes skin irritation.
H317 - May cause an allergic skin reaction.
H319 - Causes serious eye irritation.
H332 - Harmful if inhaled.
H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 - May cause respiratory irritation.
H351 - Suspected of causing cancer.
H373 - May cause damage to organs through prolonged or repeated exposure.
P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P211 - Do not spray on an open flame or other ignition source.
P251 - Do not pierce or burn, even after use.
P260 - Do not breathe spray.
P280 - Wear eye protection, protective clothing, protective gloves.
P410+P412 - Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Precautionary statements (GHS US)

2.3. Other hazards which do not result in classification

No additional information available

2.4. Unknown acute toxicity (GHS US)

Not applicable

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

| Name | Product identifier | % | GHS-US classification |
|---|---------------------|---------|--|
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues | CAS-No.: 9016-87-9 | 25 – 60 | Acute Tox. 4 (Inhalation), H332 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Resp. Sens. 1, H334 Skin Sens. 1, H317 Carc. 2, H351 STOT SE 3, H335 STOT RE 2, H373 |
| Reaction products of phosphoryl trichloride and 2-methyloxirane | CAS-No.: 13674-84-5 | 10 – 25 | Acute Tox. 4 (Oral), H302 Carc. 2, H351 Aquatic Chronic 3, H412 |

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| Name | Product identifier | % | GHS-US classification |
|--|--------------------|--------|---|
| Dimethyl ether (Propellant gas (Aerosol)) | CAS-No.: 115-10-6 | 5 – 25 | Flam. Gas 1, H220 Press. Gas (Comp.), H280 |
| propane (Propellant gas (Aerosol)) | CAS-No.: 74-98-6 | 5 – 25 | Flam. Gas 1, H220 Press. Gas (Liq.), H280 |
| isobutane (Propellant gas (Aerosol)) | CAS-No.: 75-28-5 | 1 – 10 | Flam. Gas 1, H220 Press. Gas (Comp.), H280 |

Full text of hazard classes and H-statements : see section 16

SECTION 4: First-aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|--|
| First-aid measures after inhalation | Remove person to fresh air and keep comfortable for breathing. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after skin contact | Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse. |
| First-aid measures after eye contact | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention. |
| First-aid measures after ingestion | Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention. |

4.2. Most important symptoms and effects (acute and delayed)

| | |
|-------------------------------------|--|
| Symptoms/effects after inhalation | Danger of serious damage to health by prolonged exposure through inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. |
| Symptoms/effects after skin contact | Causes skin irritation. |
| Symptoms/effects after eye contact | Causes serious eye irritation. |

4.3. Immediate medical attention and special treatment, if necessary

Treat symptomatically.

SECTION 5: Fire-fighting measures

5.1. Suitable (and unsuitable) extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | Foam. Dry powder. Carbon dioxide. Water spray. Sand. |
| Unsuitable extinguishing media | Do not use a heavy water stream. |

5.2. Specific hazards arising from the chemical

| | |
|--|---|
| Fire hazard | Extremely flammable aerosol. |
| Explosion hazard | Pressurised container: May burst if heated. |
| Hazardous decomposition products in case of fire | Toxic fumes may be released. Vapours may form explosive mixture with air. |

5.3. Special protective equipment and precautions for fire-fighters

| | |
|--------------------------------|---|
| Firefighting instructions | Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment. |
| Protection during firefighting | Do not enter fire area without proper protective equipment, including respiratory protection. |

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment Equip cleanup crew with proper protection.
Emergency procedures Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage. Store away from other materials.

Other information Dispose of materials or solid residues at an authorized site. After curing, the product can be disposed of with household waste.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling 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. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Wear personal protective equipment. Do not breathe spray. Use only outdoors or in a well-ventilated area. Avoid contact with skin and eyes. May form flammable/explosive vapour-air mixture. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour. Avoid breathing dust/fume/gas/mist/vapours/spray.

Hygiene measures Wash hands, forearms and face thoroughly after handling. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions Keep only in the original container in a cool, well ventilated place away from : Keep container tightly closed.

Incompatible products Strong bases. Strong acids.

Incompatible materials Sources of ignition. Direct sunlight.

Storage temperature 5 – 25 °C

Heat and ignition sources Keep away from heat and direct sunlight. Keep away from ignition sources.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

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No additional information available

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| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
|--|--|
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Toluene-2, 4-diisocyanate (TDI) |
| OSHA PEL C | 0.14 mg/m ³ |
| | 0.02 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| Dimethyl ether (115-10-6) | |
| No additional information available | |
| propane (74-98-6) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Propane |
| Remark (ACGIH) | TLV® Basis: Simple Asphyxiant |
| Regulatory reference | ACGIH 2023 |
| USA - OSHA - Occupational Exposure Limits | |
| Local name | Propane |
| OSHA PEL TWA | 1800 mg/m ³ |
| | 1000 ppm |
| Regulatory reference (US-OSHA) | OSHA Annotated Table Z-1 |
| isobutane (75-28-5) | |
| USA - ACGIH - Occupational Exposure Limits | |
| Local name | Isobutane |
| ACGIH OEL STEL | 2370 mg/m ³ (EX - Explosion hazard) |
| | 1000 ppm (EX - Explosion hazard) |
| Remark (ACGIH) | TLV® Basis: CNS impair |
| Regulatory reference | ACGIH 2023 |
| Reaction products of phosphoryl trichloride and 2-methyloxirane (13674-84-5) | |
| No additional information available | |

8.2. Appropriate engineering controls

| | |
|----------------------------------|--|
| Appropriate engineering controls | Ensure good ventilation of the work station. |
| Environmental exposure controls | Avoid release to the environment. |

8.3. Individual protection measures/Personal protective equipment

Personal protective equipment:

Protective clothing. Safety glasses. Gloves. Avoid all unnecessary exposure.

| Hand protection: |
|---|
| Wear suitable gloves tested to EN374. Suitable for short-term work or as a splash guard: Nitrile rubber gloves (> 0.1 mm). In case of permanent product contact: |

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| Type | Material | Permeation | Thickness (mm) | Penetration |
|--|----------------------|-------------------|----------------|-------------|
| Disposable gloves | Nitrile rubber (NBR) | 6 (> 480 minutes) | >0,35mm | |
| Disposable gloves | Butyl rubber | 6 (> 480 minutes) | >0,35mm | |
| Eye protection: | | | | |
| Chemical goggles or safety glasses | | | | |
| Skin and body protection: | | | | |
| Wear suitable protective clothing | | | | |
| Respiratory protection: | | | | |
| Not necessary with sufficient ventilation. Ensure good ventilation of the work station. Open windows during application to ensure natural ventilation. If the occupational exposure limit is exceeded: Wear appropriate mask. (e.g. gas filter type A1-P2 according to EN 14387) | | | | |

Personal protective equipment symbol(s):



Other information:

Do not eat, drink or smoke during use.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state | Liquid |
| Appearance | Aerosol. |
| Colour | Grey |
| Odour | characteristic |
| Odour threshold | No data available |
| pH | No data available |
| Melting point | No data available |
| Freezing point | No data available |
| Boiling point | No data available |
| Flash point | No data available |
| Relative evaporation rate (butylacetate=1) | No data available |
| Flammability (solid, gas) | Extremely flammable aerosol. |
| Vapour pressure | No data available |
| Relative vapour density at 20°C | No data available |
| Relative density | 1.047 |
| Density | 1.047 g/cm³ |
| Solubility | No data available |
| Partition coefficient n-octanol/water (Log Pow) | No data available |
| Auto-ignition temperature | No data available |
| Decomposition temperature | No data available |
| Viscosity, kinematic | No data available |
| Viscosity, dynamic | No data available |
| Explosive limits | No data available |
| Explosive properties | Pressurised container: May burst if heated. |
| Oxidising properties | No data available |

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9.2. Other information

VOC content 20.76 %
Heat of combustion 20 – 30 kJ/g NFPA 30B, Aerosol Classification Level: 2

SECTION 10: Stability and reactivity

10.1. Reactivity

Extremely flammable aerosol. Pressurised container: May burst if heated.

10.2. Chemical stability

Not established.

10.3. Possibility of hazardous reactions

Not established.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases.

10.6. Hazardous decomposition products

fume. Carbon monoxide. Carbon dioxide.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) Not classified
Acute toxicity (dermal) Not classified
Acute toxicity (inhalation) Inhalation:dust,mist: Harmful if inhaled.

| CF-AS CJP | |
|---|---|
| ATE US (dust,mist) | 3 mg/l/4h |
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
| LD50 oral rat | > 10000 mg/kg (Rat, Literature study, Oral) |
| LD50 dermal rabbit | > 5000 mg/kg (Rabbit, Literature study, Dermal) |
| LD50 dermal | 9400 mg/kg |
| LC50 Inhalation - Rat | 0.49 mg/l |
| propane (74-98-6) | |
| LC50 Inhalation - Rat [ppm] | > 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases)) |
| isobutane (75-28-5) | |
| LC50 Inhalation - Rat [ppm] | > 800000 ppm (15 minutes, Rat, Male / female, Experimental value, Inhalation (gases)) |

Skin corrosion/irritation Causes skin irritation.
Serious eye damage/irritation Causes serious eye irritation.
Respiratory or skin sensitisation May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction.
Germ cell mutagenicity Not classified
Carcinogenicity Suspected of causing cancer.

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| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
|--|--|
| IARC group | 3 - Not classifiable |
| Reproductive toxicity | Not classified |
| STOT-single exposure | May cause respiratory irritation. |
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
| STOT-single exposure | May cause respiratory irritation. |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
| STOT-repeated exposure | May cause damage to organs through prolonged or repeated exposure. |
| Aspiration hazard | Not classified |
| Viscosity, kinematic | No data available |
| Symptoms/effects after inhalation | Danger of serious damage to health by prolonged exposure through inhalation. May cause allergy or asthma symptoms or breathing difficulties if inhaled. May cause an allergic skin reaction. May cause respiratory irritation. |
| Symptoms/effects after skin contact | Causes skin irritation. |
| Symptoms/effects after eye contact | Causes serious eye irritation. |

SECTION 12: Ecological information

12.1. Toxicity

| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
|--|--|
| LC50 - Other aquatic organisms [1] | > 1000 mg/l (96 h, Literature study) |
| Dimethyl ether (115-10-6) | |
| LC50 - Fish [1] | > 4100 mg/l (NEN 6504: Water - Determination of toxicity with Poecilia reticulata, 96 h, Poecilia reticulata, Semi-static system, Fresh water, Experimental value, Lethal) |
| EC50 - Crustacea [1] | > 4400 mg/l (NEN 6501: Water - Determination of toxicity with Daphnia magna, 48 h, Daphnia magna, Static system, Fresh water, Experimental value, Lethal) |
| EC50 96h - Algae [1] | 154.9 mg/l (ECOSAR v1.00, Algae, QSAR, Estimated value) |
| propane (74-98-6) | |
| EC50 96h - Algae [1] | 12 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR) |
| isobutane (75-28-5) | |
| EC50 96h - Algae [1] | 8.57 mg/l (ECOSAR v1.00, Algae, Fresh water, QSAR) |

12.2. Persistence and degradability

| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
|--|---|
| Not rapidly degradable | |
| Persistence and degradability | Not readily biodegradable in water. |
| Dimethyl ether (115-10-6) | |
| Persistence and degradability | Non degradable in the soil. Not readily biodegradable in water. |

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| | |
|--|---|
| propane (74-98-6) | |
| Not rapidly degradable | |
| Persistence and degradability | Readily biodegradable in water. |
| isobutane (75-28-5) | |
| Not rapidly degradable | |
| Persistence and degradability | Readily biodegradable in water. |
| 12.3. Bioaccumulative potential | |
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
| BCF - Fish [1] | 268.1 l/kg (BCFBAF v3.01, Estimated value, Fresh weight) |
| Partition coefficient n-octanol/water (Log Pow) | 10.46 (Calculated, KOWWIN) |
| Bioaccumulative potential | Low potential for bioaccumulation (BCF < 500). |
| Dimethyl ether (115-10-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 0.1 (Experimental value) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| propane (74-98-6) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.1 – 2.8 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| isobutane (75-28-5) | |
| Partition coefficient n-octanol/water (Log Pow) | 1.09 – 2.8 (Experimental value, 20 °C) |
| Bioaccumulative potential | Low potential for bioaccumulation (Log Kow < 4). |
| 12.4. Mobility in soil | |
| 4,4'-diphenylmethanediisocyanate, isomeres and homologues (9016-87-9) | |
| Surface tension | No data available in the literature |
| Organic Carbon Normalized Adsorption Coefficient (Log Koc) | 9.078 – 10.597 (log Koc, SRC PCKOCWIN v2.0, Calculated value) |
| Ecology - soil | Adsorbs into the soil. |
| Dimethyl ether (115-10-6) | |
| Surface tension | No data available in the literature |
| Ecology - soil | Not applicable (gas). |
| propane (74-98-6) | |
| Surface tension | No data available in the literature |
| Ecology - soil | Not applicable (gas). |
| isobutane (75-28-5) | |
| Surface tension | No data available in the literature |

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| isobutane (75-28-5) | |
|---------------------|-----------------------|
| Ecology - soil | Not applicable (gas). |

12.5. Other adverse effects

No additional information available





SECTION 13: Disposal considerations

13.1. Disposal methods

| | |
|--|---|
| Waste treatment methods | Dispose of contents/container in accordance with licensed collector's sorting instructions. |
| Product/Packaging disposal recommendations | Dispose in a safe manner in accordance with local/national regulations. Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation. |
| Ecological information | Avoid release to the environment. |

SECTION 14: Transport information

In accordance with DOT / TDG / IMDG / IATA

| DOT | TDG | IMDG | IATA |
|---|---|--|---|
| 14.1. UN number | | | |
| 1950 | UN1950 | 1950 | 1950 |
| 14.2. Proper Shipping Name | | | |
| Aerosols | AEROSOLS | AEROSOLS | Aerosols, flammable |
| 14.3. Transport hazard class(es) | | | |
| 2.1 | 2.1 | 2.1 | 2.1 |
|  |  |  |  |
| 14.4. Packing group | | | |
| Not applicable | Not applicable | Not applicable | Not applicable |
| 14.5. Environmental hazards | | | |
| Dangerous for the environment: No | Dangerous for the environment: No | Dangerous for the environment: No Marine pollutant: No | Dangerous for the environment: No |
| No supplementary information available | | | |

14.6. Special precautions for user

| | |
|--|--|
| DOT | |
| UN-No. (DOT) | : UN1950 |
| DOT Special Provisions (49 CFR 172.102) | : N82 - See 173.306 of this subchapter for classification criteria for flammable aerosols. |
| DOT Packaging Exceptions (49 CFR 173.xxx) | : 306 |
| DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) | : 75 kg |
| DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) | : 150 kg |

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DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

DOT Vessel Stowage Other : 25 - Protected from sources of heat, 87 - Stow "separated from" Class 1 (explosives) except Division 14, 126 - Segregation same as for Class 9, miscellaneous hazardous materials

TDG

UN-No. (TDG) : UN1950

TDG Special Provisions : 80 - Despite section 1.17 of Part 1 (Coming into Force, Repeal, Interpretation, General Provisions and Special Cases), a person must not offer for transport or transport these dangerous goods unless they are in a means of containment that is in compliance with the requirements for transporting gases in Part 5 (Means of Containment), 107 - (1) These Regulations, except for Parts 1 and 2, do not apply to the offering for transport, handling or transport of UN1950, AEROSOLS, and UN2037, GAS CARTRIDGES, that contain dangerous goods included in Class 2.1 or Class 2.2 and that are transported on a road vehicle, a railway vehicle or a vessel on a domestic voyage, if the aerosols or gas cartridges have a capacity less than or equal to 50 mL.

(2) Subsection (1) does not apply to self-defence spray.

Explosive Limit and Limited Quantity Index : 1 L

Excepted quantities (TDG) : E0

Passenger Carrying Road Vehicle or Passenger Carrying Railway Vehicle Index : 75 L

Emergency Response Guide (ERG) Number : 126

IMDG

Special provisions (IMDG) : 63, 190, 277, 327, 344, 959

Limited quantities (IMDG) : SP277

Packing instructions (IMDG) : P207, LP02

EmS-No. (Fire) : F-D - FIRE SCHEDULE Delta - FLAMMABLE GASES

EmS-No. (Spillage) : S-U - SPILLAGE SCHEDULE Uniform - GASES (FLAMMABLE, TOXIC OR CORROSIVE)

Stowage category (IMDG) : None

MFAG-No : 126

IATA

PCA packing instructions (IATA) : 203

PCA max net quantity (IATA) : 75kg

CAO packing instructions (IATA) : 203

Special provisions (IATA) : A145, A167, A802

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable

SECTION 15: Regulatory information

15.1. US Federal regulations

All components of this product are present and listed as Active on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory

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Chemical(s) subject to the reporting requirements of Section 313 or Title III of the Superfund Amendments and Reauthorization Act (SARA) of 1986 and 40 CFR Part 372.

4,4'-diphenylmethanediisocyanate, isomeres and homologues

CAS-No. 9016-87-9

25 – 60%

15.2. International regulations

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

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Revision date

04/25/2025

Full text of H-statements

| | |
|------|--|
| H220 | Extremely flammable gas. |
| H222 | Extremely flammable aerosol. |
| H280 | Contains gas under pressure; may explode if heated. |
| H302 | Harmful if swallowed. |
| H315 | Causes skin irritation. |
| H317 | May cause an allergic skin reaction. |
| H319 | Causes serious eye irritation. |
| H332 | Harmful if inhaled. |
| H334 | May cause allergy or asthma symptoms or breathing difficulties if inhaled. |
| H335 | May cause respiratory irritation. |
| H351 | Suspected of causing cancer. |
| H373 | May cause damage to organs through prolonged or repeated exposure. |
| H412 | Harmful to aquatic life with long lasting effects. |

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| Abbreviations and acronyms | |
|----------------------------|---|
| CAS-No. | Chemical Abstract Service number |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ATE | Acute Toxicity Estimate |
| BCF | Bioconcentration factor |
| BLV | Biological limit value |
| BOD | Biochemical oxygen demand (BOD) |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| DMEL | Derived Minimal Effect level |
| DNEL | Derived-No Effect Level |
| EC-No. | European Community number |
| EC50 | Median effective concentration |
| ED | Endocrine disrupting properties |
| EN | European Standard |
| IARC | International Agency for Research on Cancer |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| IOELV | Indicative Occupational Exposure Limit Value |
| LC50 | Median lethal concentration |
| LD50 | Median lethal dose |
| LOAEL | Lowest Observed Adverse Effect Level |
| N.O.S. | Not Otherwise Specified |
| NOAEC | No-Observed Adverse Effect Concentration |
| NOAEL | No-Observed Adverse Effect Level |
| NOEC | No-Observed Effect Concentration |
| vPvB | Very Persistent and Very Bioaccumulative |
| WGK | Water Hazard Class |
| VOC | Volatile Organic Compounds |
| SDS | Safety Data Sheet |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| PNEC | Predicted No-Effect Concentration |
| PBT | Persistent Bioaccumulative Toxic |

CF-AS CJP

Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

| Abbreviations and acronyms | |
|----------------------------|--|
| OEL | Occupational Exposure Limit |
| OECD | Organisation for Economic Co-operation and Development |
| COD | Chemical oxygen demand (COD) |
| ThOD | Theoretical oxygen demand (ThOD) |
| TRGS | Technical Rules for Hazardous Substances |
| TLM | Median Tolerance Limit |
| STP | Sewage treatment plant |

| Indication of changes: | | | |
|------------------------|--------------|----------|-------------|
| Section | Changed item | Change | Comments |
| 3 | | Modified | propellants |

SDS_US_Hilti

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.