

SAFETY DATA SHEET

R444A

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Trade name

R444A

Unique formula identifier (UFI)

0JPM-72JG-50N0-4G4H

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

Relevant identified uses of the substance or mixture

Refrigerant

Restricted to professional and industrial use.

Uses advised against

Consumer uses: Private households (= general public = consumers)

1.3. Details of the supplier of the safety data sheet

Company and address

Darment Oy

Ruosilantie 18

00390 Helsinki

Finland

+358 20 558 8250

www.darment.eu

E-mail

info@darment.fi

Revision

25/05/2026

SDS Version

1.0

1.4. Emergency telephone number

HUS Poison Information Center, 24h 0800 147 111

Poison Information Center / HUS, Tukholmankatu 17, 00029 HUS (Helsinki)

See first aid measures section 4.

SECTION 2: Hazards identification

Classified according to Regulation (EC) No. 1272/2008 (CLP).

2.1. Classification of the substance or mixture

Flam. Gas 1B; H221, Flammable gas

Press. Gas (Liq.) ; H280, Contains gas under pressure; may explode if heated.

2.2. Label elements

Hazard pictogram(s)



Signal word

Danger

Hazard statement(s)

Flammable gas (H221)

Contains gas under pressure; may explode if heated. (H280)

Precautionary statement(s)

General

Not applicable.

Prevention

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. (P210)

Response

Leaking gas fire: Do not extinguish, unless leak can be stopped safely. (P377)

In case of leakage, eliminate all ignition sources. (P381)

Storage

Protect from sunlight. Store in a well-ventilated place. (P410+P403)

Disposal

Not applicable.

Hazardous substances

trans-1,3,3,3-Tetrafluoropropene

Difluoromethane

1,1-difluoroethane

Additional labelling

Contains fluorinated greenhouse gases.

2.3. Other hazards

Additional warnings

In the event of leaks, high concentrations of gases can quickly form. They can be toxic, asphyxiating, or explosive.

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

This product does not contain any substances considered to be endocrine disruptors in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2023/707.

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable. This product is a mixture.

3.2. Mixtures

Product/substance	Identifiers	% w/w	Classification	Note
trans-1,3,3,3-Tetrafluoropropene	CAS No.: 29118-24-9 EC No.: 471-480-0 REACH: 01-0000019758-54-XXXX Index No.:	81-85%	Press. Gas (Liq.) , H280	
Difluoromethane	CAS No.: 75-10-5 EC No.: 200-839-4 REACH: 01-2119471312-47-XXXX Index No.:	11-13%	Flam. Gas 1B, H221 Press. Gas (Liq.) , H280	
1,1-difluoroethane	CAS No.: 75-37-6 EC No.: 200-866-1 REACH: 01-2119474440-43-XXXX Index No.:	4-6%	Flam. Gas 1A, H220 Press. Gas (Liq.) , H280	

See full text of H-phrases in section 16. Occupational exposure limits are listed in section 8, if these are available.

Other information

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SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In the case of accident: Contact a doctor or casualty department – take the label or this safety data sheet. Contact a doctor if in doubt about the injured person's condition or if the symptoms persist. Never give an unconscious person water or other drink.

Inhalation

Upon breathing difficulties or irritation of the respiratory tract: Bring the person into fresh air and stay with him/her.

Skin contact

Thaw frosted parts with lukewarm water. Do not rub affected area. Get immediate medical advice/attention.

Eye contact

If in eyes: Flush eyes with water or saline water (20-30 °C) for at least 5 minutes. Remove contact lenses. Seek medical assistance and continue flushing during transport.

Ingestion

Exposure is not likely due to the physical state of the product (gas).

Burns

Rinse with water until pain stops then continue to rinse for 30 minutes.

4.2. Most important symptoms and effects, both acute and delayed

None known.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

Information to medics

Bring this safety data sheet or the label from this product.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: Alcohol-resistant foam, carbon dioxide, powder, water mist.

Unsuitable extinguishing media: Waterjets should not be used, since they can spread the fire.

5.2. Special hazards arising from the substance or mixture

Contains gas under pressure; may explode if heated.

Given that it does not present a risk gas supplies shall be disrupted immediately. Removal of pressurized containers or attempting to cool with water shall be entrusted the fire brigade.

If the product is exposed to high temperatures, e.g. in the event of fire, dangerous decomposition compounds are produced. These are:

Halogenated compounds

Carbon oxides (CO / CO₂)

5.3. Advice for firefighters

Wear self-contained breathing apparatus and protective clothing to prevent contact. Upon direct exposure contact the Poison Information Center on: 09-471977, in order to obtain further advice.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Accidental releases always pose a serious risk of fire or explosion.

Storages not yet ignited must be cooled by water mist. Remove flammable materials if conditions allow it. Ensure sufficient ventilation.

Disconnect the gas supply provided it does not present a risk. Avoid breathing fumes. Make sure to have a self-contained breathing apparatus available and ready-to-use in the event of an emergency.

6.2. Environmental precautions

In the event of leakage to the surroundings, contact local environmental authorities.

6.3. Methods and material for containment and cleaning up

Disconnect the gas supply. Allow liquefied gas to evaporate and dilute into safe concentration levels in the surrounding atmosphere. If necessary control the dilution of the gas with a mist of water. Ventilate rooms in order to remove the gas.

6.4. Reference to other sections

See section 13 "Disposal considerations" on handling of waste.

See section 8 "Exposure controls/personal protection" for protective measures.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Smoking, drinking and consumption of food is not allowed in the work area.

See section 8 "Exposure controls/personal protection" for information on personal protection.

7.2. Conditions for safe storage, including any incompatibilities

Vapours may propagate along the floor. Prevent the forming of flammable or explosive vapour concentrations by applying sufficient ventilation. Do not use this product in close proximity to sources of ignition.

Protect electrical equipment in accordance with current standards. To divert static electricity during transmission, containers must be grounded and connected by wire with the receiving containers. Do not use spark-forming tools. Must be stored in a cool and well-ventilated area, away from possible sources of ignition.

Pressurized gas packs (spray cans, aerosol cans) must be stored behind a wire mesh, which allows gases to escape and holds back packs flying around.

Recommended storage material

Keep only in original packaging.

Storage conditions

Dry, cool and well ventilated

Protect from sunlight.

< 50°C

Incompatible materials

Powdered metals

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

7.3. Specific end use(s)

This product should only be used for applications quoted in section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

The product contains no substances listed in the Finnish list of substances with occupational exposure limit values.

DNEL

1,1-difluoroethane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Inhalation	270.14 mg/m ³
Long term – Systemic effects - Workers	Inhalation	1085.98 mg/m ³

Difluoromethane

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Inhalation	750 mg/m ³
Long term – Systemic effects - Workers	Inhalation	7035 mg/m ³

trans-1,3,3,3-Tetrafluoropropene

Duration:	Route of exposure:	DNEL:
Long term – Systemic effects - General population	Inhalation	208.1 mg/m ³
Long term – Systemic effects - Workers	Inhalation	1170.8 mg/m ³

PNEC

1,1-difluoroethane

Route of exposure:	Duration of Exposure:	PNEC:
Freshwater		48-168.28 µg/L
Freshwater sediment		190-1140.59 µg/kg
Intermittent release (freshwater)		480-1682.76 µg/L

Marine water	4.8-16.83 µg/L
Marine water sediment	19-114.06 µg/kg
Sewage treatment plant	4.726 mg/L
Soil	96.01-141 µg/kg
Difluoromethane	
Route of exposure:	Duration of Exposure: PNEC:
Freshwater	142-313 µg/L
Freshwater sediment	534-1806.9 µg/kg
Intermittent release (freshwater)	1.42-3.13 mg/L
trans-1,3,3,3-Tetrafluoropropene	
Route of exposure:	Duration of Exposure: PNEC:
Freshwater	117 µg/L
Freshwater sediment	1.25 mg/kg
Intermittent release (freshwater)	1.17 mg/L
Marine water	11.7 µg/L
Marine water sediment	125 µg/kg
Soil	755 µg/kg

8.2. Exposure controls

Apply general control to prevent unnecessary exposure

General recommendations

Observe general occupational hygiene standards.

Exposure scenarios

There are no exposure scenarios implemented for this product.

Exposure limits

Occupational exposure limits have not been defined for the substances in this product.

Appropriate technical measures

Adequate ventilation must be ensured for all gases. Where natural ventilation is not possible (cellar rooms), artificial ventilation must be installed. It is advantageous to store it in a lattice shed outdoors, as ventilation is no longer necessary in this case.

Hygiene measures

In between use of the product and at the end of the working day all exposed areas of the body must be washed thoroughly. Pay special attention to hands, forearms and face.

Measures to avoid environmental exposure

No special when used as intended.

Individual protection measures, such as personal protective equipment

Generally

Use only CE marked protective equipment.

Respiratory Equipment

Work situation	Type	Class	Colour	Standards
In case of inadequate ventilation	Self contained breathing apparatus			EN137, EN139



Skin protection

No specific requirements.

Hand protection

Material	Glove thickness (mm)	Breakthrough time (min.)	Standards
Protective gloves against cold	-	-	EN511



Eye protection

Type	Standards
Face shield alternatively safety glasses with side shields.	EN166



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state

Gas

Colour

Colourless

Odour / Odour threshold

ether-like

pH

Does not apply to gases.

Density (g/cm³)

1.16 (20 °C)

Relative density

Does not apply to gases.

Kinematic viscosity

Does not apply to gases.

Particle characteristics

Does not apply to gases.

Phase changes

Melting point/Freezing point (°C)

Does not apply to gases.

Softening point/range (°C)

Does not apply to gases.

Boiling point (°C)

-34,3 - -24,2

Vapour pressure

4474 mmHg (20 °C)

Relative vapour density

3,7

Decomposition temperature (°C)

No data available.

Data on fire and explosion hazards

Flash point (°C)

Does not apply to gases.

Flammability (°C)

The material is ignitable.

Auto-ignition temperature (°C)

No data available.

Lower and upper explosion limit (% v/v)

8.2 - 13.1

Solubility

Solubility in water

Insoluble

n-octanol/water coefficient (LogKow)

No data available.

Solubility in fat (g/L)

No data available.

9.2. Other information

Pseudo-critical temperature (gas mixture) (°C)

106,4

Other physical and chemical parameters

No data available.

Molecular Weight (g/mol)

96,70

Oxidizing properties

No data available.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data available.

10.2. Chemical stability

The product is stable under the conditions, noted in section 7 "Handling and storage".

10.3. Possibility of hazardous reactions

None known.

10.4. Conditions to avoid

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources.

10.5. Incompatible materials

Powdered metals

Strong acids, strong bases, strong oxidizing agents, and strong reducing agents.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity

Product/substance	trans-1,3,3,3-Tetrafluoropropene
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC0
Result:	> 207 000 ppm

Product/substance	trans-1,3,3,3-Tetrafluoropropene
Test method:	OECD 413
Species:	Rat
Route of exposure:	Inhalation
Test:	NOAEL
Result:	5000

Product/substance	Difluoromethane
Test method:	OECD 403
Species:	Rat
Route of exposure:	Inhalation
Test:	LC0 (4 h)

Result: 520 000 ppm

Product/substance 1,1-difluoroethane
Species: Rat
Route of exposure: Inhalation
Test: LC50 (4 hours)
Result: > 43.75 %

Product/substance 1,1-difluoroethane
Species: Rat
Route of exposure: Oral
Test: LD50
Result: > 1500 mg/kg

Based on available data, the classification criteria are not met.

Skin corrosion/irritation

Product/substance trans-1,3,3,3-Tetrafluoropropene
Test method: OECD 404
Species: Rabbit
Result: No adverse effect observed (Not irritating)

Based on available data, the classification criteria are not met.

Serious eye damage/irritation

Based on available data, the classification criteria are not met.

Respiratory sensitization

Product/substance trans-1,3,3,3-Tetrafluoropropene
Species: Human
Result: No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Skin sensitisation

Product/substance trans-1,3,3,3-Tetrafluoropropene
Species: Human
Result: No adverse effect observed (not sensitising)

Based on available data, the classification criteria are not met.

Germ cell mutagenicity

Product/substance trans-1,3,3,3-Tetrafluoropropene
Test method: OECD 473
Species: Human
Conclusion: No adverse effect observed

Product/substance trans-1,3,3,3-Tetrafluoropropene
Test method: OECD 474
Species: Mouse
Conclusion: No adverse effect observed

Product/substance Difluoromethane
Test method: OECD 474
Conclusion: No adverse effect observed

Product/substance Difluoromethane
Test method: OECD 471
Conclusion: No adverse effect observed

Based on available data, the classification criteria are not met.

Carcinogenicity

Product/substance 1,1-difluoroethane
Test method: OECD 453
Species: Rat
Route of exposure: Inhalation
Test: NOAEC

Result: 67485 mg/m³

Based on available data, the classification criteria are not met.

Reproductive toxicity

Product/substance: trans-1,3,3,3-Tetrafluoropropene
 Test method: OECD 416
 Species: Rat
 Test: NOAEL
 Result: > 20.000 ppm

Product/substance: trans-1,3,3,3-Tetrafluoropropene
 Test method: OECD 414
 Species: Rat
 Test: NOAEC
 Result: 15.000 ppm

Product/substance: Difluoromethane
 Species: Rat
 Test: NOAEC
 Result: 208 000 mg/m³
 Conclusion: No adverse effect observed

Product/substance: 1,1-difluoroethane
 Species: Rat
 Test: NOAEC
 Result: 108 057.26 mg/m³

Based on available data, the classification criteria are not met.

STOT-single exposure

Based on available data, the classification criteria are not met.

STOT-repeated exposure

Based on available data, the classification criteria are not met.

Aspiration hazard

Based on available data, the classification criteria are not met.

Symptoms related to the physical, chemical and toxicological characteristics

None known.

11.2. Information on other hazards

Endocrine disrupting properties

This mixture/product does not contain any substances known to have hormone-disrupting properties in relation to health.

Other information

None known.

SECTION 12: Ecological information

12.1. Toxicity

Product/substance: trans-1,3,3,3-Tetrafluoropropene
 Test method: OECD 203
 Species: Fish
 Duration: 96 hours
 Test: LC0
 Result: > 117 mg/L

Product/substance: trans-1,3,3,3-Tetrafluoropropene
 Test method: OECD 201
 Species: Algae
 Duration: 72 hours
 Test: NOEC
 Result: > 170 mg/L

Product/substance	trans-1,3,3,3-Tetrafluoropropene
Test method:	OECD 202
Species:	Daphnia
Duration:	48 hours
Test:	EC50
Result:	> 160 mg/L

Product/substance	Difluoromethane
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	1,507 - 1,731 g/L

Product/substance	Difluoromethane
Species:	Daphnia
Duration:	48 hours
Result:	833 mg/L

Product/substance	Difluoromethane
Species:	Algae
Duration:	96 hours
Test:	EC50
Result:	313 mg/L

Product/substance	1,1-difluoroethane
Species:	Fish
Duration:	96 hours
Test:	LC50
Result:	295.783 - 719.611 mg/L

Product/substance	1,1-difluoroethane
Species:	Fish
Duration:	21 days
Test:	NOEC
Result:	2.67 mg/L

Product/substance	1,1-difluoroethane
Species:	Crustacean
Duration:	21 days
Test:	NOEC
Result:	214 µg/L

Product/substance	1,1-difluoroethane
Species:	Algae
Duration:	96 hours
Test:	EC50
Result:	168.276 mg/L

Based on available data, the classification criteria are not met.

12.2. Persistence and degradability

Product/substance	Difluoromethane
Compartment:	Freshwater
Conclusion:	-

12.3. Bioaccumulative potential

Product/substance	trans-1,3,3,3-Tetrafluoropropene
LogKow:	<= 4
Conclusion:	-

Product/substance	1,1-difluoroethane
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BCF: 3.162 L/kg ww
LogKow: 1.13
Conclusion: -

12.4. Mobility in soil

No data available.

12.5. Results of PBT and vPvB assessment

This mixture/product does not contain any substances known to fulfil the criteria for PBT and vPvB classification.

12.6. Endocrine disrupting properties

This mixture/product does not contain any substances considered to have endocrine-disrupting properties in relation to the environment.

12.7. Other adverse effects

-

Global warming potential (GWP)

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Product is covered by the regulations on hazardous waste. (*)

HP 3 - Flammable

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

EWC code

14 06 01* Chlorofluorocarbons, HCFC, HFC

Contaminated packing

EWC code

14 06 01* Chlorofluorocarbons, HCFC, HFC

SECTION 14: Transport information

	14.1 UN / ID	14.2 UN proper shipping name	14.3 Hazard class(es)	14.4 PG*	14.5 Env**	Other information:
ADR/A DN/RID	UN3161	LIQUEFIED GAS, FLAMMABLE, N.O.S. (trans-1,3,3,3- Tetrafluoropropene, Difluoromethane, 1,1- difluoroethane)	Transport hazard class: 2 Label: 2.1 Classification code: 2F 	-	No	Limited quantities: 0 Tunnel restriction code: (B/D) See below for additional information.
IMDG	UN3161	LIQUEFIED GAS, FLAMMABLE, N.O.S. (trans-1,3,3,3- Tetrafluoropropene, Difluoromethane, 1,1- difluoroethane)	Transport hazard class: 2 Label: 2.1 Classification code: 2F 	-	No	Limited quantities: 0 EmS: F-D S-U See below for additional information.
IATA	UN3161	LIQUEFIED GAS, FLAMMABLE, N.O.S. (trans-1,3,3,3- Tetrafluoropropene, Difluoromethane, 1,1- difluoroethane)	Transport hazard class: 2 Label: 2.1 Classification code: 2F 	-	No	See below for additional information.

* Packing group

** Environmental hazards

Additional information

This product is within scope of the regulations of transport of dangerous goods.

ADR/ADN/RID / See Table A, section 3.2.1 for any information on special provisions, requirements, or warnings in connection with transport. See section 5.4.3, for instructions in writing regarding mitigation of damages in relation to incidents or accidents during transport.

IMDG / See section 3.2.1, for any information on special provisions, requirements, or warnings in connection with transport.

IATA / See Table 4.2 for any information on special provisions, requirements, or warnings in connection with transport.

14.6. Special precautions for user

Not applicable.

14.7. Maritime transport in bulk according to IMO instruments

No data available.

SECTION 15: Regulatory information

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

Restrictions for application

Restricted to professional users.

People under the age of 18 shall not be exposed to this product.

Demands for specific education

No specific requirements.

SEVESO - Categories / dangerous substances

Liquefied flammable gases - Qualifying quantity (lower-tier): 50 tonnes / (upper-tier): 200 tonnes

REACH, Annex XVII

Difluoromethane is subject to REACH restrictions (entry 40).

1,1-difluoroethane is subject to REACH restrictions (entry 40).

Additional information

Not applicable.

Sources

Government Decree 686/2015 amending the Government Decree on Safety Requirements for the Industrial Handling and Storage of Dangerous Chemicals.

Commission Regulation (EU) No 1357/2014 of 18 December 2014 on waste.

REGULATION (EU) No 517/2014 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 April 2014 on fluorinated greenhouse gases.

Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

15.2. Chemical safety assessment

No

SECTION 16: Other information

Full text of H-phrases as mentioned in section 3

H220, Extremely flammable gas.

H221, Flammable gas

H280, Contains gas under pressure; may explode if heated.

Abbreviations and acronyms

ADN = European Provisions concerning the International Carriage of Dangerous Goods by Inland Waterway

ADR = The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE = Acute Toxicity Estimate

BCF = Bioconcentration Factor

CAS = Chemical Abstracts Service

CE = Conformité Européenne (European conformity)

CLP = Classification, Labelling and Packaging Regulation [Regulation (EC) No. 1272/2008]

CSA = Chemical Safety Assessment

CSR = Chemical Safety Report

DMEL = Derived Minimal Effect Level

DNEL = Derived No Effect Level
EC = Effective concentration
ED = Effective dose
EINECS = European Inventory of Existing Commercial chemical Substances
EL = Effective Loading
ErC = Concentration associated with x% growth rate response
ES = Exposure Scenario
EUH statement = CLP-specific Hazard statement
EuPCS = European Product Categorisation System
EWC = European Waste Catalogue
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
GWP = Global warming potential
HP = Hazardous Property code
IARC = International Agency for Research on Cancer (IARC)
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IC = X maximum inhibitory concentration
IMDG = International Maritime Dangerous Goods
LC = Lethal concentration
LCLo = Value is the lowest concentration of a material in air reported to have caused the death of animals or humans
LD = Lethal dose
LOAEC = Lowest Observed Adverse Effect Concentration
LOAEL = Lowest Observed Adverse Effect Level
LOEC = Lowest Observed Effect Concentration
LogKow = logarithm of the n-octanol/water coefficient
LL = Lethal Loading
M = For multiplication factor
MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
NOAEC = No Observed Adverse Effect Concentration
NOAEL = No Observed Adverse Effect Level
NOEC = No Observed Effect Concentration
NOELR = No Observable Effect Loading Rate
OECD = Organisation for Economic Co-operation and Development
PBT = Persistent, Bioaccumulative and Toxic
PNEC = Predicted No Effect Concentration
RID = The Regulations concerning the International Carriage of Dangerous Goods by Rail
RRN = REACH Registration Number
SCL = A specific concentration limit
SVHC = Substances of Very High Concern
STOT-RE = Specific Target Organ Toxicity - Repeated Exposure
STOT-SE = Specific Target Organ Toxicity - Single Exposure
TWA = Time weighted average
UN = United Nations
UVBC = Unknown or variable composition, complex reaction products or of biological materials
VOC = Volatile Organic Compound
vPvB = Very Persistent and Very Bioaccumulative

Additional information

The classification of the mixture in regard to physical hazards has been based on experimental data.

The safety data sheet is validated by

Darment Oy

Other

A change (in proportion to the last essential change (first cipher in SDS version, see section 1)) is marked with a triangle.

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

It is recommended to hand over this safety data sheet to the actual user of the product. Information in this safety data sheet cannot be used as a product specification.

Country-language: FI-en