

FACILISOLV
100015600
SECTION 1 Identification of the substance/mixture and of the company/undertaking
1.1. Product identifier
Product name : FACILISOLV

1.2. Relevant identified uses of the substance or mixture and uses advised against
1.2.1 Relevant identified uses : Internal cleaning of industrial refrigeration systems

1.3. Details of the supplier of the safety data sheet

 : DEHON SERVICE
 26 Avenue du Petit Parc
 94683 VINCENNES Cedex France
 Tel : +33 (0) 1 43 98 75 00
 Fax : +33 (0) 1 43 98 21 51

e-mail : ContactFDS@inventec.dehon.com

1.4 Emergency telephone number : EMERGENCY TELEPHONE NUMBER (24h/24) : + 33 (0) 1 72 11 00 03
 Anti-poison Center : INRS/ORFILA (France) : +33 (0) 1 45 42 59 59
 Anti-poison Centre (Belgium) : +32 70 245 245
 Anti-poison Centre (Spain) : +34 91 562 04 20
 Anti-poison Centre (Netherlands) : +31 30 274 8888
 Anti-poison Centre (United Kingdom) : +44 870 600 6266
 Poisons Information Centre (Hungary) : +36 80 201 199

SECTION 2 Hazards identification
2.1. Classification of the substance or mixture
2.1.1. Regulation (EC) No 1272/2008 (CLP)
Health hazards : Acute toxicity, Inhalation - Category 4 - (Acute Tox. 4) - H332

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 3 (Aquatic Chronic 3) - H412

2.1.2 Directive EEC/67/548 or 1999/45/CE : R18
 Xn; R20
 R52-53

2.2. Label elements
2.2.1 Labelling EC 1272/2008 (CLP)
Contains : Trans-dichloroethylene

Hazard pictograms

Signal words : Warning

Hazard statements : H332 : Harmful if inhaled
 H412 : Harmful to aquatic life with long lasting effects

Precautionary statements : : P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.
 P312 : Call a POISON CENTER/doctor/physician if you feel unwell
 P273 : Avoid release to the environment
 P501 : Dispose of contents / container to an authorized center in accordance with national regulation

Supplemental hazard information : EUH018 : In use may form flammable/explosive vapour-air mixture

2.3. Other hazards : None under normal conditions.

DEHON SERVICE

 26 Avenue du Petit Parc 94683 VINCENNES Cedex France
 Tel : +33 (0) 1 43 98 75 00
 Fax : +33 (0) 1 43 98 21 51



MATERIAL SAFETY DATA SHEET

Page : 2 / 7

Version : 5

Date : 4 / 8 / 2015

Supersedes : 31 / 5 / 2013

FACILISOLV**100015600**

SECTION 2 Hazards identification (continued)

SECTION 3 Composition/information on ingredients

3.1./3.2. Substance / Preparation : Preparation.
Chemical nature : Mixture of solvents
Components contributing to the hazard :

Substance name	Contents	CAS No	EC No	Index No	Ref REACH	Classification
Trans-dichloroethylene	> 25 %	156-60-5	205-860-2	602-026-00-3	----	F: R11 Xn: R20 R52-53 ----- Flam. Liq. 2;H225 Acute Tox. 4 (Inhalation);H332 Aquatic Chronic 3;H412

SECTION 4 First aid measures

4.1. Description of first aid measures

Inhalation : IF INHALED: Remove person to fresh air and keep comfortable for breathing.
Call a POISON CENTER/doctor/physician if you feel unwell

Skin contact : Wash with soapy water

Eye contact : Rinse with plenty of water immediately.
If irritation persists, consult an eye specialist

Ingestion : Rinse mouth out with water
Never attempt to induce vomiting
consult a doctor

4.2. Most important symptoms and effects, both acute and delayed : No information available

4.3. Indication of any immediate medical attention and special treatment needed : No information available

SECTION 5 Fire-fighting measures

5.1. Extinguishing media

Suitable extinguishing media : Carbon dioxide (CO₂)
Dry powder

Unsuitable extinguishing media : None to our knowledge. If there is a fire close by, use suitable extinguishing agents

5.2. Special hazards arising from the substance or mixture

Specific hazards : May form flammable/explosive vapour-air mixtures
Toxic and corrosive vapours are released
For further information, refer to section 10 : "Stability and Reactivity"

5.3. Advice for firefighters

Specific fire fighting methods : In case of significant fire close by :
Do not breathe vapour
Cool down the containers exposed to heat with a water spray

Protection of fire-fighters : Complete protective clothing
Self-contained breathing apparatus
For further information refer to section 8 "Exposure controls/personal protection"

DEHON SERVICE

26 Avenue du Petit Parc 94683 VINCENNES Cedex France
Tel : +33 (0) 1 43 98 75 00
Fax : +33 (0) 1 43 98 21 51



MATERIAL SAFETY DATA SHEET

Page : 3 / 7

Version : 5

Date : 4 / 8 / 2015

Supersedes : 31 / 5 / 2013

FACILISOLV

100015600

SECTION 5 Fire-fighting measures (continued)

SECTION 6 Accidental release measures

- 6.1. Personal precautions, protective equipment and emergency procedures** : In the event of significant spillages :
Evacuate the danger area.
Only qualified personnel equipped with suitable protective equipment may intervene
Do not breathe vapours
Do not smoke
Remove all sources of ignition
Turn leaking containers leak-side up to prevent the escape of liquid
Ventilate spillage area
- 6.2. Environmental precautions** : Contain the spilled material by bunding
Do not discharge into drains or rivers
- 6.3. Methods and material for containment and cleaning up** : Absorb spillage with:
- absorbent material
Recover as much product as possible
Wash non-recoverable remainder with large amounts of water
Dispose of contaminated materials in accordance with current regulations.
Incinerate contaminated materials at an authorized installation.
- 6.4 Reference to other sections** : For further information refer to section 8 "Exposure controls/personal protection"

SECTION 7 Handling and storage

- 7.1. Precautions for safe handling**
- Technical measures** : Install a retention tank.
Ventilation
- Precautions** : Smoking is forbidden
Smoking when using this product may cause contamination of the tobacco and/or the smoke and cause the formation of the hazardous decomposition products referred to in section 10 of this notice
- Safe handling advice :** : Handle and open the container with care.
- Industrial hygiene** : Always wash your hands immediately after handling this product, and once again before leaving the workplace
Do not eat, drink or smoke during use
- 7.2. Conditions for safe storage, including any incompatibilities**
- Storage conditions**
- Recommended** : Store :
- in a well-ventilated area
- the container tightly closed
- protected from heat
- Incompatible products** : Strong oxidizing agents
Strong bases
- Packaging materials**
- Recommended** : Uncoated steels
- Not suitable** : Plastic materials.
- 7.3. Specific end use(s)**

DEHON SERVICE

26 Avenue du Petit Parc 94683 VINCENNES Cedex France
Tel : +33 (0) 1 43 98 75 00
Fax : +33 (0) 1 43 98 21 51



MATERIAL SAFETY DATA SHEET

Page : 4 / 7

Version : 5

Date : 4 / 8 / 2015

Supersedes : 31 / 5 / 2013

FACILISOLV**100015600**

SECTION 8 Exposure controls/personal protection

8.1. Control parameters

Engineering measures : Ensure good ventilation of the work station

8.1.1. Occupational Exposure Limits : Trans-dichloroethylene : Germany : MAK - TWA (8h; mg/m³) : 800
Trans-dichloroethylene : Germany : MAK - TWA (8h; ppm) : 200
Trans-dichloroethylene : Germany : MAK - STEL (15min; mg/m³) : 1600
Trans-dichloroethylene : Germany : MAK - STEL (15min; ppm) : 400
Trans-dichloroethylene : USA (OSHA) : PEL - TWA (8h; mg/m³) : 790
Trans-dichloroethylene : USA (OSHA) : PEL - TWA (8h; ppm) : 200
Trans-dichloroethylene : Switzerland : LEP - VME (8h; mg/m³) : 790
Trans-dichloroethylene : Switzerland : LEP - VME (8h; ppm) : 200
Trans-dichloroethylene : Switzerland : LEP - VLE (15min; mg/m³) : 1580
Trans-dichloroethylene : Switzerland : LEP - VLE (15min; ppm) : 400
Trans-dichloroethylene : Belgium : GWBB - TWA (8h; mg/m³) : 805
Trans-dichloroethylene : Belgium : GWBB - TWA (8h; ppm) : 200

8.2. Exposure controls

Personal protection :

- Respiratory protection : If the ventilation is suitable, it is not essential to wear respiratory equipment
If necessary, wear a mask with canister for organic vapours, type A or AX
- Hand protection : Protective gloves made of PTFE (Téflon)
- Eye protection : Safety spectacles with side shields
- Skin protection : Wear of covering clothes (high natural fibre content)
Safety foot-wear

SECTION 9 Physical and chemical properties

9.1. Information on basic physical and chemical properties

9.1.a. Appearance

Physical state : Liquid

Colour : Colourless

9.1.b. Odour : slightly ethereal.

9.1.c. Odour threshold : No information available

9.1.d. pH : Not applicable

9.1.e. Melting point / Freezing point : - 125 °C

9.1.f. Initial boiling point - boiling range : + 48 °C

9.1.g. Flash point : None

9.1.h. Evaporation rate : No information available

9.1.i. Flammability : In use may form flammable/explosive vapour-air mixture

9.1.j. Explosion limits (lower - upper)

Explosion limits - lower : 6.7 % (volume)

Explosion limits - upper : 17.8 % (volume)

9.1.k. Vapour pressure : 65 kPa at 20 °C

9.1.l. Vapour density : No information available

9.1.m. Relative density : 1.27 at 20 °C

9.1.n. Solubility

-in water : Insoluble

DEHON SERVICE

26 Avenue du Petit Parc 94683 VINCENNES Cedex France

Tel : +33 (0) 1 43 98 75 00

Fax : +33 (0) 1 43 98 21 51

FACILISOLV
100015600
SECTION 9 Physical and chemical properties (continued)

- 9.1.o. Partition coefficient : n-octanol / water : Trans-dichloroethylene : < 3
- 9.1.p. Auto-ignition temperature : > 400°C
- 9.1.q. Thermal decomposition : No information available
- 9.1.r. Viscosity : < 0.4 mPa.s at 25°C
- 9.1.s. Explosive Properties : Not explosive material according to EC criteria
- 9.1.t. Oxidising properties : Non oxidizing material according to EC criteria
- 9.2. Other information

SECTION 10 Stability and reactivity

- 10.1. Reactivity
- 10.2. Chemical stability : Stable under normal conditions of use
- 10.3. Possibility of hazardous reactions : No dangerous polymerization.
- 10.4. Conditions to avoid : Heat
- 10.5. Incompatible materials : - strong bases
- strong oxidizing agents
- 10.6. Hazardous decomposition products : On thermal decomposition (pyrolysis), releases :
Carbon oxydes (CO, CO₂)
Hydrofluoric Acid
Perfluoroisobutylene

SECTION 11 Toxicological information

- 11.1. Information on toxicological effects
- Acute toxicity : Harmful if inhaled
- On ingredients
- Trans-dichloroethylene : Rat inhalation LC50 [mg/l/4h] : 95.6 - vapours
: Rat inhalation LC50 [ppm/4h] : 24100 - Gas
: Rat oral LD50 [mg/kg] : 770
- Skin corrosion/irritation : Slightly irritating to skin
 - Serious eye damage/irritation : Slightly irritating to eyes.
 - Respiratory or skin sensitisation : No sensitizing effect is known
 - Germ cell mutagenicity : No mutagenic effect
 - Carcinogenicity : No information available
 - Reproductive toxicity : No information available
 - STOT-single exposure : No information available
 - STOT-repeated exposure : No information available
 - Aspiration hazard : -

DEHON SERVICE

26 Avenue du Petit Parc 94683 VINCENNES Cedex France
 Tel : +33 (0) 1 43 98 75 00
 Fax : +33 (0) 1 43 98 21 51



MATERIAL SAFETY DATA SHEET

Page : 6 / 7

Version : 5

Date : 4 / 8 / 2015

Supersedes : 31 / 5 / 2013

FACILISOLV**100015600**

SECTION 12 Ecological information

12.1. Toxicity

Effects on the aquatic environment : Harmful to aquatic life with long lasting effects**On ingredients****Trans-dichloroethylene**

: 48 Hour - EC50 - Daphnia magna [mg/l] : 220

: 48 Hours - LC50 - Crustaceans [mg/l] : 220

: 96 Hours - LC50 - Fish (Lepomis macrochirus) [mg/l] : 140

12.2. Persistence and degradability

Persistence

: Trans-dichloroethylene : Life in atmosphere : 6 d

- Indirect photo-oxidation

: Trans-dichloroethylene : Half-life : 3.8 y

- Ultimate aerobic biodegradability:

: Trans-dichloroethylene : 93-95% biodegradation after 28 days

12.3. Bioaccumulative potential

Octanol/water partition coefficient

: Trans-dichloroethylene : < 3

12.4. Mobility in soil

Volatility

: Very high Henry's constant

Product is volatile from an aqueous solution

Product is volatile from the soil.

12.5. Results of PBT and vPvB assessment

: No information available

12.6. Other adverse effects**Ozone depletion potential**

: ODP (R-11=1)=0

SECTION 13 Disposal considerations

13.1. Waste treatment methods

WASTE FROM PRODUCT :**Prohibition :**

: Avoid release to the environment

Do not allow the product to be released into the environment

Do not discharge waste into drains

Destruction/Disposal

: Dispose of at a licensed waste collection center

Recycle the material as far as possible.

Non recycled product:

Incinerate at a licensed installation.

CONTAMINATED PACKAGING :**Decontamination/cleaning**

: Empty the packaging completely prior to disposal

Destruction/Disposal

: Recycle following cleaning or dispose of at an authorised site

NOTE

: The user's attention is drawn to the possible existence of specific european, national or local regulations regarding disposal

DEHON SERVICE

26 Avenue du Petit Parc 94683 VINCENNES Cedex France

Tel : +33 (0) 1 43 98 75 00

Fax : +33 (0) 1 43 98 21 51



MATERIAL SAFETY DATA SHEET

Page : 7 / 7

Version : 5

Date : 4 / 8 / 2015

Supersedes : 31 / 5 / 2013

FACILISOLV**100015600**

SECTION 14 Transport information

RID/ADR/IMDG/IATA : Not regulated

SECTION 15 Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture : Ensure all national/local regulations are observed.

France : Professional diseases(table(s) nr 12,32) : applicable

Germany : WGK (Water-endangerment class) : 2

15.2. Chemical safety assessment : No information available

SECTION 16 Other information

Further information : Product for industrial use only
For more information regarding the use of this product, please refer to our technical information or contact the sales department in your region
This safety data sheet has been written in conformity with the regulation (UE) 453/2010.

List of relevant R phrases (§ 3) : R11 : Highly flammable.
R20 : Harmful by inhalation.
R52/53 : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

List of relevant H phrases (Section 3) : H225 - Highly flammable liquid and vapour
H332 - Harmful if inhaled
H412 - Harmful to aquatic life with long lasting effects

*** Update** : All chapters have been modified since the previous version

This sheet complements the technical sheets but does not replace them. The information given is based on our knowledge of the product, at the time of publication. It is given in good faith.

Besides, the attention of the user is drawn to the possible risks incurred by using the product for any other use than that for which it was intended.

In no way does this exempt the user from knowing and applying all the regulations controlling his activity. He alone will take on the responsibility for taking the precautions involved by the use of the product.

The aim of all the mandatory regulations mentioned is just to help the user to fulfil his obligations regarding the use of hazardous products.

This information must not be considered exhaustive. It does not exempt the user from ensuring that other obligations than those mentioned could apply, related to the storage and use of the product, this being his sole responsibility.

End of document

DEHON SERVICE

26 Avenue du Petit Parc 94683 VINCENNES Cedex France

Tel : +33 (0) 1 43 98 75 00

Fax : +33 (0) 1 43 98 21 51