

DS-500 Nonflammable Solvent

Safety Data Sheet

COMBINED GHS according to the following :
OSHA Hazard Communication Standard (29 CFR 1910.1200 - GHS Rev 7, May 2024)

Issue Date: 20260713 Revision Date: 20260713

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

1.1. Product identifier

Product form : Liquid Mixture
Product name : DS-500 Nonflammable Solvent

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Fluorinated Precision Cleaning Solvent Mixture.

1.2.2. Uses advised against

Restrictions on use : INDUSTRIAL USE ONLY. NOT FOR CONSUMER SALE OR USE.

1.3. Details of the supplier of the safety data sheet

Supplier

Engineered Fluids, Inc.
4917 Profit Drive
Tyler, TX 75707 USA
+1-725-218-1981
support@engineeredfluids.com

E.U. Only Representative:

1.4. Emergency telephone number +1-352-323-3500

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REACH Regulation (EC) 1907/2006 amended by Regulation (EU) 2020/878 and Ref: CSSS-TCO-010-155483
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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

This product has no flash point and is non-flammable per OSHA and DOT regulations and may exhibit flammable limits in an estimated range of vapor to air concentration of 6.7% to 19% based on 1,2 trans-dichloroethylene.

2.2. Label elements

Signal Word: Danger

Skin irritation
Eye irritation
toxicity (single exposure) CNS
Ingestion (Acute Toxicity)
Aquatic Toxicity

Classification

Category 2
Category 2B Specific target organ
Category 3
Category 4
Category 3

Hazard Statements

H332	Harmful if inhaled
H302	Harmful if swallowed
H313	May be harmful in contact with skin
H315	Causes skin irritation
H320	Causes eye irritation
H332	Harmful if inhaled
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.



Precautionary Statements

P102	Keep out of reach of children
P103	Read label before use
P233	Keep container tightly closed
P234	Keep only in original container
P202	Do not handle until all safety precautions have been read and understood
P262	Do not get in eyes, on skin, or on clothing
P271	Use in a well-ventilated area
P273	Avoid release to the environment
P261	Avoid breathing vapor/spray
P280	Wear protective gloves/eye protection/face protection
P281	Use personal protective equipment as required.
P403 + P233	Store in well-ventilated place. Keep container tightly closed

Response

P308 + P314	IF EXPOSED: Get medical advice/attention if you feel concerned.
P305 + P351 + P338 + P337 + P313	IF IN EYES: 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.

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P302 + P361 + P352 + P353 + P363
P333 + P313

IF ON SKIN: remove immediately all contaminated clothing. Wash with soap and water. Rinse skin with water/shower. Wash contaminated clothing before reuse. If skin irritation or rash occurs: Get medical advice/attention.

P304 + P340 + P342 + P311

IF INHALED: Remove individual to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTER or doctor/physician.

P301 +P330 + P331
P306 + P361 + P363

IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
IF ON CLOTHING: Remove immediately all contaminated clothing. Wash contaminated clothing.

Storage:
P403 + P235 + P404 + P233

Store in a well-ventilated place. Keep Cool. Store in a closed container.

Disposal:
P501

Dispose of contents/containers in accordance with all local/regional/national/international regulations.

2.3. Other hazards : None

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SECTION 3: Composition / information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Chemical Name	CAS No.	EC No.	Concentration	Classification
1,2 trans-dichloroethylene	CAS 156-60-5	EC 205-860-2	>65%	H332 Harmful if inhaled H302 Harmful if swallowed H313 May be harmful in contact with skin H315 Causes skin irritation H320 Causes eye irritation H332 Harmful if inhaled H336 May cause drowsiness or dizziness. H412 Harmful to aquatic life with long lasting effects.
Fluorinated Ether	Trade Secret - 920.1200(i)(1)	Trade Secret - 920.1200(i)(1)	<35%	H320 Causes eye irritation

SECTION 4: First Aid Measures

4.1. Description of first aid measures

First-aid measures general	: Call a poison center or a doctor if you feel unwell.
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	: After contact with skin, immediately remove contaminated clothing, and wash with plenty of water. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Remove contact lenses, if present and easy to do. Continue rinsing. Rinse eyes with water as a precaution. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Do not induce vomiting. Call a physician immediately.

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

Symptoms/effects after ingestion	: Risk of lung oedema.
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4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Dry powder. Foam. Carbon dioxide.
Unsuitable extinguishing media : Do not use a water jet since it may cause the fire to spread.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Thermal decomposition or combustion may liberate carbon oxides and other toxic gases/vapors such as gaseous hydrogen fluoride.

5.3. Advice for firefighters

Protection during firefighting : **DS-500 has no flash point when measured by standard test methods. However aerosol mist of DS-500 can be flammable.**
Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area. Avoid breathing dust/fume/gas/mist/vapours/spray.

6.1.2. For emergency responders

Protective equipment : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Take up liquid spill into absorbent material.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

For further information refer to section 13.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Avoid spilling, skin and eye contact. Avoid inhalation of vapors and spray mists. Use with sufficient ventilation. In use, may form flammable or explosive vapor-air mixture. Wear personal protective equipment. Use only in a well-ventilated area.

Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions : Store locked up. Store in a well-ventilated place. Keep cool.

7.3. Specific end use(s)

Industrial cleaning solvent for use only by trained professionals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

Component	CAS/EC Number	Exposure Limits
1,2 trans-dichloroethylene	CAS 156-60-5 OSHA PEL	200 ppm EC 205-860-2 ACGIH TLV 200 ppm
Proprietary Fluorinated Compound	---	50 ppm 8h-TWA (MREL)

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

No additional information available

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Normal ventilation for standard manufacturing procedures is generally adequate. Local exhaust should be used when large amounts are released. Vapors are heavier than air. Use with adequate ventilation to prevent vapor buildup in low lying areas.

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8.2.2. Personal protection equipment

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Safety glasses

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing. Outerwear should be impervious to solvent saturation.

Hand protection:

Always use Viton or neoprene gloves for long term protection. Nitrile gloves are acceptable only for splash protection. Gloves should be inspected and changed when wear, tearing, punctures or chemical saturation is evident.

8.2.2.3. Respiratory protection

Respiratory protection:

Suitable respiratory protection should be provided if exposure limits may be or are exceeded.

Self-contained breathing apparatus (SCBA) is required if a large spill occurs.

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Color	: clear.
Odor	: Strong solvent odor
Freezing point	: Not available
Boiling point	: 42° C, 106° F
Flammability	: Non flammable.
Lower explosion limit	: 6,7%
Upper explosion limit	: 19%
Flash point	: No flash point as measured with ASTM D56
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: Not available
Viscosity, Kinematic, cSt.@ 40C	: Not available
Solubility	: insoluble in water
Partition coefficient n-octanol/water (Log Kow)	: Not available
Density, g/cc	: 1.304
Relative density	: 1.304
Relative vapour density at 20° C	: Heavier than air
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use. Avoid flames or extreme temperatures. See Sections 10.4, 10.5, 10.6

10.4. Conditions to avoid

Avoid heat, flames and other sources of ignition. Does not support combustion and will decompose when exposed to extreme conditions of heat at elevated temperatures, naked flames or incompatible materials.

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10.5. Incompatible materials

Strong oxidizing substances. Incompatible with alkali or alkaline earth metals (powdered Al, Zn, Be, etc)

10.6. Hazardous decomposition products

Thermal decomposition or combustion may liberate carbon oxides, hydrochloric and hydrofluoric acids, possibly carbonyl halides and other toxic gases or vapors.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
 Acute toxicity (dermal) : Not classified
 Acute toxicity (inhalation) : Harmful if liquid is inhaled.

	1,2 trans-dichloroethylene	Proprietary Fluorinated Compound
LD50 oral rat	Rat: 1,235 mg/kg LD50 Oral Mouse: 2,122 mg/kg Remarks: Behavioral: Altered sleep time/change in righting reflex Behavioral: Somnolence (general depressed activity). Behavioral: Ataxia.	>2000 mg/Kg
LD50 dermal rabbit	Rabbit: > 5,000 mg/kg Remarks: Prolonged skin contact may cause dermatitis.	NOEL >2,000mg/kg
LC50 Inhalation	Rat: 24,100 ppm Remarks: Behavioral: Somnolence (general depressed activity). A 90 day inhalation study in rats reported no adverse effects on body weight, clinical observations, food consumption, clinical or anatomical pathology parameters, or liver cell proliferation and an NOEL of 4,000 ppm.	1,000 ppm Rats exposed to 1,000 ppm for 6 hours per day, 5 days per week for 90 days showed no adverse effects.

Skin irritation : Rabbit: Skin irritation - 24 hr. none
 Serious eye damage/irritation : Not classified Slight irritation to eye and mucous membranes
 Respiratory or skin sensitisation : Not classified Not Classified

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Germ cell mutagenicity	: Not mutagenic to E-coli or S. Typhimurium when tested with microsomal activation. Did not produce mutations in Saccharomyces cerevisiae with or without microsomal activation. No genetic effects were reported in a vivo host mediated mutagenic assay.	Negative
Carcinogenicity	: Not classified per IARC, NTP or OSHA	Not listed in IARC, NTP or OSHA
Reproductive toxicity	: Not mutagenic to E-coli or S. Typhimurium when tested with microsomal activation. Did not produce mutations in Saccharomyces cerevisiae with or without microsomal activation. No genetic effects were reported in a vivo host mediated mutagenic assay.	Negative
STOT-single exposure	: Not classified	Not classified
STOT-repeated exposure	: Not classified	Not classified

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

Adverse health effects caused by endocrine disrupting properties	The substance/mixture has no endocrine disrupting properties.
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11.2.2. Other information

No additional information available

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SECTION 12: Ecological information

12.1. Toxicity

1,2 trans-dichloroethylene

Invertebrate Toxicity:	<110,000 ug/L 48 hour(s) (Mortality) Water flea (Daphnia magna)
Persistence and degradability:	No data available
Bio accumulative potential:	No data available
Mobility in soil:	No data available
PBT & vPvB assessment:	Not conducted
USEPA SNAP:	Acceptable: Metals Cleaning, Electronics Cleaning, Precision Cleaning, Aerosol Solvents, Adhesives & Coatings Sectors
Global Warming Potential:	< 5 EPA-450-F-16-003 - Not listed as GWP in EU
VOC:	100%
Other adverse effects:	An environmental hazard cannot be excluded in the event of unprofessional handling or disposal

Proprietary Fluorinated Compound

Biodegradability:	Not biodegraded (OECD 301 C)
Bioaccumulation:	Not expected to be bioaccumulative
Activated Sludge Study:	>100mg/L (OECD 209)
Fish Toxicity:	LC50 (96 hr.) (Carp) >76 mg/L
Other Information:	Algal growth inhibition: ErC50>213mg/L EbC50>213mg/L
Mobility inhibition:	(Daphnia magna): 48hr-EC50>94mg/L
USEPA SNAP:	Acceptable: Metals Cleaning & Precision Cleaning Sectors
Global Warming Potential:	580
VOC:	Exempt from the regulatory definition of VOC

12.2. Persistence and degradability

DS-500 Nonflammable Dielectric Solvent	
Persistence and degradability	May be persistent in the environment. Does not biodegrade in 28 day laboratory testing

12.3. Bioaccumulative potential

DS-500 Nonflammable Dielectric Solvent	
Partition coefficient n-octanol/water (Log Kow)	>12
Bioaccumulative potential	May be persistent in the environment..

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12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

DS-500 Nonflammable Dielectric Solvent

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII

This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII

12.6. Endocrine disrupting properties

Adverse effects on the environment caused by endocrine disrupting properties : The substance/mixture has no endocrine disrupting properties.

SECTION 13: Disposal considerations

13.1. Disposal methods

: Dispose of contents/container in accordance with licensed collector's instructions. Dispose of waste and residues in accordance with federal, state and local authority requirements. Confirm disposal procedures with environmental engineer and local regulations. Do not allow runoff into sewer, waterway or ground. Do not reuse containers.

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.2. UN proper shipping name: Fluorinated Nonflammable Cleaning Solvent				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.3. Transport hazard class(es)				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.4. Packing group				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
14.5. Environmental hazards				
Not regulated	Not regulated	Not regulated	Not regulated	Not regulated
No supplementary information available				

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14.6. Special precautions for user

Overland transport

Not regulated

Transport by sea

Not regulated

Air transport

Not regulated

Inland waterway transport

Not regulated

Rail transport

Not regulated

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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SECTION 15: Regulatory information

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

GWP DS-500 Nonflammable Solvent: 174.7
USEPA SNAP - Mixture: All compounds approve.
VOC - Mixture: 771 g/l

1,2 trans-dichloroethylene

USA TSCA: Listed in Inventory. Active.
USA HAP: Not Listed.
USA SARA 302: Not subject to the reporting requirements,
USA SARA 304: N/A
USA SARA 313/312: Hazards: Serious eye damage or eye irritation. Specific target organ toxicity (single or repeated exposure)
USA SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (Deminimis) reporting levels established by SARA Title III, Section 313. RCRA Sec. 3001 Haz. Waste: Listed. U079, FO24 and F025 (40 CFR 261.33)
USA CERCLA: Reportable quantity - 1,000 LBS (454 kgs).

Safe Drinking

Water Act:NPDWR: MCLG - 100 ppb MCL of 100 ppb

Clean Water Act

Section 307(a)(1) : Listed as toxic pollutant. Subject to effluent limitations.

Clean Water Act Section 304: Included in the list of total toxic organics (TTO) (40CFR 413.02(I)).

USEPA SNAP: Acceptable: Metals Cleaning, Electronics Cleaning, Precision Cleaning, Aerosol Solvents, Adhesives & Coatings Sectors. ODP - 0.00024

State Right To Know: Massachusetts, Pennsylvania, New Jersey

California List of Hazardous Substances: Listed

State Air Regulations Allowable Ambient Levels:

New Hampshire (Env-A 1400: Regulated Toxic Air Pollutants).

Rhode Island (Air Pollution Regulation No. 22)

Chemicals of High Concern to Children: Minnesota (Toxic Free Kids Act Minn. Stat. 116.9401 to 116.9407).

California' s Safer Consumer Products Program: Listed as candidate chemical (2019)

California Bio-monitoring: Designated priority chemical for biomonitoring (2019).

Massachusetts Toxic Use Reduction Act (TURA): Listed

ROHS3: Complies

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EU REACH:	EC 205-860-2
Europe EINECS:	Listed in inventory
Canada DSL:	Listed in Inventory
Canada WHMIS:	B2, D2B. Not listed on Ingredient Disclosure List
Canada CEPA:	Not Listed
Australia AICS:	Listed in Inventory
Korea KECI:	Listed in Inventory
Japan ENCS:	Listed in Inventory
Philippines PICCS:	Not Listed.

Proprietary Fluorinated Compound

USA TSCA:	Listed in Inventory. Active. Subject to SNUR - Requirements as specified in § 721.80 (f), (j) (cleaning electronic components; precision cleaning; dewatering of electronic components and other parts following aqueous cleaning; and carrier/lubricant coating for hard disk drives and other precision parts) 40 CFR 721.10549.
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Export reporting to USEPA required.

USA SARA 313/312:	Not subject to the reporting.
USA SARA 302:	Not subject to the reporting.
USA SARA 304:	N/A
USA CERCLA:	Not regulated.
USA RCRA:	N/A
USEPA SNAP:	Acceptable: Metals Cleaning & Precision Cleaning
GLOBAL WARMING:	GWP: 580
USA VOC Exempt:	Yes.
California Prop 65:	Not Listed.
ROHS3:	Complies.
Canada DSL:	Listed in Inventory.
REACH:	Listed in Inventory.
EU EINECS/ELINCS:	Listed in Inventory.
EU ENCS:	Listed in Inventory.
EU F-GAS:	Subject to Reporting.
China IECSC:	Listed in Inventory.
Korea KECI:	Listed in Inventory.

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Philippines PICCS: Listed in Inventory.

Australia AICS: Does not comply.

SECTION 16: Other information

Only trained personnel should use this material. Since empty containers retain product residue, follow label warnings, even after container is emptied. Each user of this product should study this SDS carefully and consult appropriate expertise as necessary to become aware of and understand the data contained in this SDS and any hazards that may be associated with this product. The information provided in this Safety Data Sheet relates only to the specific material designated herein. The user is responsible for determining the conditions of safe use of this product and for complying with all Federal, State and Local governmental laws and regulations concerning its use. The manufacturer and any distributors make no warranty, express or implied, including the warranty of merchantability and fitness for a particular purpose, and assumes no liability or responsibility for the accuracy, completeness, timeliness or usefulness of this information. Enviro Tech International, Inc assumes no liability for any damages incurred, whether directly or indirectly, as a result of any errors, omissions or discrepancies in this information. Enviro Tech International, Inc. assumes no liability for reliance on this data and assumes no liability for damages related to the use or misuse of this product.

Abbreviations and acronyms:	
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)
COD	Chemical oxygen demand (COD)
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC-No.	European Community number
EC50	Median effective concentration
EN	European Standard
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association

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Abbreviations and acronyms:

IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
OEL	Occupational Exposure Limit
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
SDS	Safety Data Sheet
STP	Sewage treatment plant
ThOD	Theoretical oxygen demand (ThOD)
TLM	Median Tolerance Limit
VOC	Volatile Organic Compounds
CAS-No.	Chemical Abstract Service number
N.O.S.	Not Otherwise Specified
vPvB	Very Persistent and Very Bioaccumulative
ED	Endocrine disrupting properties

Full text of H- and EUH-statements:

Acute Tox. 4 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 4
Aquatic Chronic 4	Hazardous to the aquatic environment – Chronic Hazard, Category 4
«HAZ2NUM»	«HAZ2DESC»
H413	May cause long lasting harmful effects to aquatic life.

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.