

# Safety Data Sheet

## SAFENET



**Safety Data Sheet dated 2/5/2021, version 1.0**  
**This version cancels and substitutes any previous version**

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### 1. IDENTIFICATION

Product identifier

Mixture identification:

Trade name: SAFENET

Recommended use of the chemical and restrictions on use

Recommended use:

Flushing fluid for A/C systems

Restrictions on use:

Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Responsible party:

ERRECOM USA LLC

1900 North Bayshore Drive 1A Suite 129

33139 Miami Beach, FL.

+1 786 7967862

Manufacturer:

ERRECOM SPA

Via Industriale, 14

25030 Corzano (BS) Italy

Competent person responsible for the safety data sheet:

lab@errecom.it

Emergency phone number

+1 786 7967862 (Mo-Fr, 02h30-06h00, 07h30-12h00 UTC -05:00)

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### 2. HAZARD(S) IDENTIFICATION

Classification of the chemical

Warning, Flam. Liq. 4, Combustible liquid.



Warning, Skin Irrit. 2, Causes skin irritation.



Warning, Eye Irrit. 2A, Causes serious eye irritation.



Warning, Skin Sens. 1, May cause an allergic skin reaction.



Warning, Carc. 2, Suspected of causing cancer.



Warning, STOT SE 3, May cause drowsiness or dizziness.



Danger, Asp. Tox. 1, May be fatal if swallowed and enters airways.



Aquatic Chronic 2, Toxic to aquatic life with long lasting effects.

Label elements

SAFENET/1.0

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Hazard pictograms:



Danger

Hazard statements:

- H227 Combustible liquid.
- H315 Causes skin irritation.
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- H351 Suspected of causing cancer.
- H336 May cause drowsiness or dizziness.
- H304 May be fatal if swallowed and enters airways.
- H411 Toxic to aquatic life with long lasting effects.

Precautionary statements:

- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.
- P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.
- P233 Keep container tightly closed.
- P261 Avoid breathing vapours.
- P264 Wash the parts that come into contact thoroughly after handling.
- P271 Use only outdoors or in a well-ventilated area.
- P272 Contaminated work clothing should not be allowed out of the workplace.
- P273 Avoid release to the environment.
- P280 Wear protective gloves/clothing and eye/face protection.
- P301+P310 IF SWALLOWED: Immediately call a doctor.
- P302+P352 IF ON SKIN: Wash with plenty of water.
- P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P308+P313 IF exposed or concerned: Get medical advice/attention.
- P312 Call a doctor if you feel unwell.
- P321 Specific treatment (see First Aid information on Section 4 of the SDS and/or on this label).
- P331 Do NOT induce vomiting.
- P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
- P337+P313 If eye irritation persists: Get medical advice/attention.
- P362+P364 Take off contaminated clothing and wash it before reuse.
- P370+P378 In case of fire, use a CO2 fire extinguisher to extinguish.
- P391 Collect spillage.
- P403+P235 Store in a well-ventilated place. Keep cool.
- P405 Store locked up.
- P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Hazards not otherwise classified identified during the classification process:

None

Ingredient(s) with unknown acute toxicity:

None.

Additional classification information

NFPA rating:

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HMIS rating:

HEALTH	*	2
FLAMMABILITY		2
PHYSICAL HAZARD		0
PERSONAL PROTECTION		H

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substances

N.A.

Mixtures

Hazardous components within the meaning of 29 CFR 1910.1200 and related classification:

Qty	Name	Ident. Number	Classification
>= 80% - < 90%	tetrachloroethylene	Index number: 602-028-00-4 CAS: 127-18-4 EC: 204-825-9 REACH No.: 01-21194753 29-28-XXXX	A.2/2 Skin Irrit. 2 H315 A.3/2A Eye Irrit. 2A H319 A.4.2/1 Skin Sens. 1 H317 A.8/3 STOT SE 3 H336 A.6/2 Carc. 2 H351 US-HAE/C2 Aquatic Chronic 2 H411
>= 12.5% - < 15%	Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics	EC: 927-241-2 REACH No.: 01-21194718 43-32-XXXX	B.6/3 Flam. Liq. 3 H226 A.10/1 Asp. Tox. 1 H304 A.8/3 STOT SE 3 H336 US-HAE/C3 Aquatic Chronic 3 H412
>= 0.1% - < 0.25%	1,2-epoxybutane	Index number: 603-102-00-9 CAS: 106-88-7 EC: 203-438-2 REACH No.: 01-21194491 61-46-XXXX	B.6/2 Flam. Liq. 2 H225 A.6/2 Carc. 2 H351 A.1/4/Oral Acute Tox. 4 H302 A.1/4/Dermal Acute Tox. 4 H312 A.1/4/Inhal Acute Tox. 4 H332 A.8/3 STOT SE 3 H335 A.2/2 Skin Irrit. 2 H315

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		A.3/2B Eye Irrit. 2B H320
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### 4. FIRST-AID MEASURES

Description of necessary measures

In case of skin contact:

Immediately take off all contaminated clothing.

After contact with skin, wash immediately with plenty of water.

Wash contaminated clothing before using them.

In case of eyes contact:

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do NOT induce vomiting.

In case of Inhalation:

Remove casualty to fresh air and keep warm and at rest.

Most important symptoms/effects, acute and delayed

No information available.

Indication of immediate medical attention and special treatment needed

In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Treatment:

No information available.

### 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Foam fire extinguisher.

Unsuitable extinguishing media:

High pressure water jet.

Specific hazards arising from the chemical

Overpressure can be created in containers exposed to fire with danger of explosion.

Do not inhale explosion and combustion gases.

Hazardous combustion products:

No information available.

Explosive properties: N.A.

Oxidizing properties: N.A.

Special protective equipment and precautions for fire-fighters

Cool the containers with jets of water to avoid the decomposition of the product and the development of substances potentially dangerous for health. Always wear full fire protection equipment.

Collect the extinguishing waters that must not be discharged into the drains. Dispose of contaminated water used for extinction and fire residue according to current regulations.

### 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures

Wear personal protection equipment.

Remove persons to safety.

See protective measures under point 7 and 8.

Methods and materials for containment and cleaning up

Wash with plenty of water.

### 7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.  
Exercise the greatest care when handling or opening the container.  
Do not use on extensive surface areas in premises where there are occupants.  
Don't use empty container before they have been cleaned.  
Before making transfer operations, assure that there aren't any incompatible material residuals in the containers.  
See also section 8 for recommended protective equipment.  
Advice on general occupational hygiene:  
Contaminated clothing should be changed before entering eating areas.  
Do not eat or drink while working.  
Conditions for safe storage, including any incompatibilities  
Always keep in a well ventilated place.  
Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight.  
Keep away from food, drink and feed.  
Incompatible materials:  
See subsection 10.5  
Instructions as regards storage premises:  
Cool and adequately ventilated.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

tetrachloroethylene - CAS: 127-18-4

ACGIH - TWA(8h): 170 mg/m<sup>3</sup>, 25 ppm - STEL(15min): 678 mg/m<sup>3</sup>, 100 ppm - Notes:

A3, BEI - CNS impair

AGW - TWA(8h): 69 mg/m<sup>3</sup>, 10 ppm - STEL(15min): 138 mg/m<sup>3</sup>, 20 ppm

VLA - TWA(8h): 172 mg/m<sup>3</sup>, 25 ppm - STEL(15min): 689 mg/m<sup>3</sup>, 100 ppm

VLEP - TWA(8h): 138 mg/m<sup>3</sup>, 20 ppm - STEL(15min): 275 mg/m<sup>3</sup>, 40 ppm

WEL - TWA(8h): 345 mg/m<sup>3</sup>, 50 ppm - STEL(15min): 689 mg/m<sup>3</sup>, 100 ppm

TLV - TWA(8h): 335 mg/m<sup>3</sup>, 50 ppm - STEL(15min): 1000 mg/m<sup>3</sup>, 150 ppm - Notes:

Country: GRC

NDS - TWA(8h): 85 mg/m<sup>3</sup> - STEL(15min): 170 mg/m<sup>3</sup>

NPHV - TWA(8h): 345 mg/m<sup>3</sup>, 50 ppm

GVI - TWA(8h): 345 mg/m<sup>3</sup>, 50 ppm - STEL(15min): 689 mg/m<sup>3</sup>, 100 ppm

EU - TWA(8h): 138 mg/m<sup>3</sup>, 20 ppm - STEL: 275 mg/m<sup>3</sup>, 40 ppm - Notes: Skin

TLV - TWA(8h): 120 mg/m<sup>3</sup> - Notes: Country: BGR

TLV - TWA(8h): 250 mg/m<sup>3</sup> - STEL: 750 mg/m<sup>3</sup> - Notes: Country: CZE

AK - TWA(8h): 50 mg/m<sup>3</sup> - STEL(15min): 50 mg/m<sup>3</sup>

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

TLV - TWA(8h): 1700 mg/m<sup>3</sup> - Notes: ACGIH

### DNEL Exposure Limit Values

tetrachloroethylene - CAS: 127-18-4

Consumer: 138 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, local effects

Worker Professional: 275 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 275 mg/m<sup>3</sup> - Consumer: 138 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, local effects

Consumer: 1.3 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 39.4 mg/kg - Consumer: 23 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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Consumer: 46 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 871 mg/m<sup>3</sup> - Consumer: 185 mg/m<sup>3</sup> - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 77 mg/kg - Consumer: 46 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

### PNEC Exposure Limit Values

tetrachloroethylene - CAS: 127-18-4

Target: Soil (agricultural) - Value: 0.01 mg/kg

Target: Fresh Water - Value: 0.051 mg/l

Target: Marine water - Value: 0.0051 mg/l

Target: Marine water sediments - Value: 0.0903 mg/kg

Target: Microorganisms in sewage treatments - Value: 11.2 mg/l

### Appropriate engineering controls:

None

### Individual protection measures

#### Eye protection:

Protective airtight goggles (ref. Standard EN 166).

#### Protection for skin:

Overall.

Safety shoes.

#### Protection for hands:

work gloves resistant to penetration (ref. standard EN 374).

Suitable material:

NBR (nitrile rubber).

Material thickness: 0.4 mm minimum.

Break through time : > 480 min

Take note of the information given by the producer concerning permeability and break through times, and of special workplace conditions (mechanical strain, duration of contact).

#### Respiratory protection:

In the case of vapour formation use a respirator with an approved filter.

Mask with filter "AX", brown colour

#### Thermal Hazards:

None

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance and colour: Liquid, colourless

Odour: characteristic

Odour threshold: N.A.

pH: N.A.

Melting point / freezing point: N.A.

Initial boiling point and boiling range: N.A.

Solid/gas flammability: N.A.

Upper/lower flammability or explosive limits: N.A.

Vapour density: N.A.

Flash point: 144 ° F

Evaporation rate: N.A.

Vapour pressure: N.A.

Density: 0.93 g/mL (+20°C/+68°F)

Solubility in water: insoluble

Solubility in oil: N.A.

Partition coefficient (n-octanol/water): N.A.

Auto-ignition temperature: N.A.

Decomposition temperature: N.A.

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Viscosity:	N.A.	
Miscibility:	N.A.	
Fat Solubility:	N.A.	
Conductivity:	N.A.	
Substance Groups relevant properties	N.A.	

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### 10. STABILITY AND REACTIVITY

Reactivity  
Stable under normal conditions

Chemical stability  
Stable under normal conditions

Possibility of hazardous reactions  
None

Conditions to avoid  
Stable under normal conditions.

Incompatible materials  
Information not available.

Hazardous decomposition products  
No data available

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### 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects  
Toxicological information of the product:  
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- a) acute toxicity  
Not classified  
Based on available data, the classification criteria are not met
- b) skin corrosion/irritation  
The product is classified: Skin Irrit. 2 H315
- c) serious eye damage/irritation  
The product is classified: Eye Irrit. 2A H319
- d) respiratory or skin sensitisation  
The product is classified: Skin Sens. 1 H317
- e) germ cell mutagenicity  
Not classified  
Based on available data, the classification criteria are not met
- f) carcinogenicity  
The product is classified: Carc. 2 H351
- g) reproductive toxicity  
Not classified  
Based on available data, the classification criteria are not met
- h) STOT-single exposure  
The product is classified: STOT SE 3 H336
- i) STOT-repeated exposure  
Not classified  
Based on available data, the classification criteria are not met
- j) aspiration hazard  
The product is classified: Asp. Tox. 1 H304

Toxicological information of the main substances found in the product:  
tetrachloroethylene - CAS: 127-18-4

- a) acute toxicity:  
Test: LC50 - Route: Inhalation - Species: Rat 4000 ppm - Duration: 4h  
Test: LD50 - Route: Oral - Species: Rat 250 mg/kg  
Test: LD50 - Route: Skin - Species: Rabbit 6384 mg/kg

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Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg

Test: LC50 - Route: Inhalation Vapour - Species: Rat > 4951 mg/m<sup>3</sup> - Duration: 4h

Substance(s) listed on the NTP report on Carcinogens:

tetrachloroethylene.

Substance(s) listed on the IARC Monographs:

tetrachloroethylene - Group 2A

1,2-epoxybutane - Group 2B.

Substance(s) listed as OSHA Carcinogen(s):

None.

Substance(s) listed as NIOSH Carcinogen(s):

tetrachloroethylene.

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## 12. ECOLOGICAL INFORMATION

Ecotoxicity

Adopt good working practices, so that the product is not released into the environment.

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The product is classified: Aquatic Chronic 2 - H411

tetrachloroethylene - CAS: 127-18-4

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia 18 mg/l - Duration h: 48 - Notes: Daphnia magna

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish > 10 mg/l - Duration h: 96 - Notes: Species:

Oncorhynchus mykiss

Endpoint: EC50 - Species: Algae > 1000 mg/l - Duration h: 72 - Notes: Species:

Pseudokirchneriella subcapitata

Endpoint: EC50 - Species: Daphnia > 22 mg/l - Duration h: 48 - Notes: Species:

Daphnia magna

Persistence and degradability

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics

Biodegradability: Readily biodegradable - Test: Biodegradation (%): - Duration: 28 d -

%: 77 - Notes: oxygen consumption

Bioaccumulative potential

tetrachloroethylene - CAS: 127-18-4

Test: Kow - Partition coefficient 2.53

Test: BCF - Bioconcentration factor 49

Mobility in soil

tetrachloroethylene - CAS: 127-18-4

Test: Partition coefficient: Soil / water 2.15

Other adverse effects

None

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## 13. DISPOSAL CONSIDERATIONS

Waste treatment and disposal methods

Recover, if possible. Send to authorised disposal plants or for incineration under controlled conditions. In so doing, comply with the local and national regulations currently in force.

Additional disposal information:

Reuse, if possible. Product residues are to be considered hazardous special waste. The hazardousness of the waste that partially contains this product must be evaluated according to the laws in force.



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Disposal must be entrusted to a company authorized to manage waste, in compliance with national and possibly local regulations.

The transport of waste may be subject to ADR.

### CONTAMINATED PACKAGING

Contaminated packaging must be sent for recovery or disposal in accordance with national waste management regulations.

## 14. TRANSPORT INFORMATION



### UN number

ADR-UN Number: UN2810

DOT number: UN2810

IATA-UN Number: UN2810

IMDG-UN Number: UN2810

### UN proper shipping name

ADR-Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.

DOT-Shipping Name: Toxic, liquids, organic, n.o.s.

IATA-Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.

IMDG-Shipping Name: TOXIC LIQUID, ORGANIC, N.O.S.

### Transport hazard class(es)

ADR-Class: 6.1

DOT Hazard Class: 6.1

ADR - Hazard identification number: 60

IATA-Class: 6.1

IATA-Label: 6.1

IMDG-Class: 6.1

### Packing group

ADR-Packing Group: III

DOT Packing group: III

IATA-Packing group: III

IMDG-Packing group: III

### Environmental hazards

ADR-Environmental Pollutant: Yes

IMDG-Marine pollutant: Marine Pollutant

### Transport in bulk (according to Annex II of MARPOL 73/78 and the IBC Code)

N.A.

### Special precautions

DOT Special provisions: IB3, T7, TP1, TP28

ADR-Subsidiary hazards: -

ADR-S.P.: IB3, T7, TP1, TP28

ADR-Transport category (Tunnel restriction code): 2 (E)

IATA-Passenger Aircraft: 655

IATA-Subsidiary hazards: -

IATA-Cargo Aircraft: 663

IATA-S.P.: A3 A4 A137

IATA-ERG: 6L

IMDG-EmS: F-A , S-A

IMDG-Subsidiary hazards: -

IMDG-Stowage and handling: Category A SW2  
IMDG-Segregation: -

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## 15. REGULATORY INFORMATION

### USA - Federal regulations

#### TSCA - Toxic Substances Control Act

TSCA inventory: all the components are listed on the TSCA inventory.

TSCA listed substances:

tetrachloroethylene is listed in TSCA Section 8b, Section 8d HSDR, Section 8a - CAIR

1,2-epoxybutane is listed in TSCA Section 8b, Section 8d HSDR.

#### SARA - Superfund Amendments and Reauthorization Act

Section 302 – Extremely Hazardous Substances: no substances listed.

Section 304 – Hazardous substances: tetrachloroethylene, 1,2-epoxybutane.

Section 313 – Toxic chemical list: tetrachloroethylene, 1,2-epoxybutane.

#### CERCLA - Comprehensive Environmental Response, Compensation, and Liability Act

Substance(s) listed under CERCLA: tetrachloroethylene - Reportable quantity: 100 pounds

1,2-epoxybutane - Reportable quantity: 100 pounds.

Reportable quantity for mixture: 117.7856302 pounds.

#### CAA - Clean Air Act

CAA listed substances:

tetrachloroethylene is listed in CAA Section 112(b) - HON, Section 112(b) - HAP, Section 111

1,2-epoxybutane is listed in CAA Section 112(b) - HAP.

#### CWA - Clean Water Act

CWA listed substances:

tetrachloroethylene is listed in CWA Section 304, Section 307, CWA Priority Pollutants.

### USA - State specific regulations

#### California Proposition 65

Substance(s) listed under California Proposition 65:

tetrachloroethylene - Listed as carcinogen.

#### Massachusetts Right to know

Substance(s) listed under Massachusetts Right to know:

tetrachloroethylene

1,2-epoxybutane.

#### New Jersey Right to know

Substance(s) listed under New Jersey Right to know:

tetrachloroethylene

1,2-epoxybutane.

#### Pennsylvania Right to know

Substance(s) listed under Pennsylvania Right to know:

tetrachloroethylene

1,2-epoxybutane.

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## 16. OTHER INFORMATION

Full text of phrases referred to in Section 3:

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

H351 Suspected of causing cancer.

H411 Toxic to aquatic life with long lasting effects.

H226 Flammable liquid and vapour.

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H304 May be fatal if swallowed and enters airways.  
H412 Harmful to aquatic life with long lasting effects.  
H225 Highly flammable liquid and vapour.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H320 Causes eye irritation.

Safety Data Sheet dated 2/5/2021, version 1

### Disclaimer:

The information contained herein is based on our state of knowledge at the above-specified date. It refers solely to the product indicated and constitutes no guarantee of particular quality. The information relates only to the specific material and may not be valid for such material used in combination with any other material or in any process.

This Safety Data Sheet cancels and replaces any preceding release.

ADR:	European Agreement concerning the International Carriage of Dangerous Goods by Road.
ATE:	Acute Toxicity Estimate
ATEmix:	Acute toxicity Estimate (Mixtures)
CAS:	Chemical Abstracts Service (division of the American Chemical Society).
CLP:	Classification, Labeling, Packaging.
DNEL:	Derived No Effect Level.
EINECS:	European Inventory of Existing Commercial Chemical Substances.
GHS:	Globally Harmonized System of Classification and Labeling of Chemicals.
HMIS:	Hazardous Materials Identification System
IARC:	International Agency for Research on Cancer
IATA:	International Air Transport Association.
IATA-DGR:	Dangerous Goods Regulation by the "International Air Transport Association" (IATA).
ICAO:	International Civil Aviation Organization.
ICAO-TI:	Technical Instructions by the "International Civil Aviation Organization" (ICAO).
IMDG:	International Maritime Code for Dangerous Goods.
INCI:	International Nomenclature of Cosmetic Ingredients.
KSt:	Explosion coefficient.
LC50:	Lethal concentration, for 50 percent of test population.
LD50:	Lethal dose, for 50 percent of test population.
NFPA:	National Fire Protection Association
NIOSH:	National Institute for Occupational Safety and Health
NTP:	National Toxicology Program
OSHA:	Occupational Safety and Health Administration
PNEC:	Predicted No Effect Concentration.
RID:	Regulation Concerning the International Transport of Dangerous Goods by Rail.
STEL:	Short Term Exposure limit.
STOT:	Specific Target Organ Toxicity.
TLV:	Threshold Limiting Value.
TWA:	Time-weighted average