

#### Safety Data Sheet dated 5/7/2019, version 6

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

1.1. Product identifier

Mixture identification:

Trade name: SPECIALE METALLO BLU TRAFFICO BRILLANTE RAL 5017

ML 400

Trade code: 3845

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

Recommended use: Paint for metal materials

1.3. Details of the supplier of the safety data sheet

Supplier:

Arexons S.p.A.

via Antica di Cassano, 23, 20063

Cernusco sul Naviglio (MI), Italy

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Competent person responsible for the safety data sheet:

arexons@arexons.it

1.4. Emergency telephone number

Arexons S.p.A.

Tel. +39 (0)2/924361 - Fax +39 (0)2/92436306

Centro Antiveleni di Pavia IRCCS- Fondazione Maugeri tel. +39 (0)382 24444 (h24; it, en)

In England and Wales: NHS 111 - dial 111

In Scotland: NHS 24 - dial 111

In Ireland: Beaumont Hospital - National Poisons Information Centre 01 809 2166 (7days, 8:00 -

22:00)

In South Africa: Poison Information Helpline 0861 555 777

#### **SECTION 2: Hazards identification**

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP):

- Danger, Aerosols 1, Extremely flammable aerosol. Pressurized container: may burst if heated.
- Warning, Eye Irrit. 2, Causes serious eye irritation.
- ♦ Warning, STOT SE 3, May cause drowsiness or dizziness.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H222+H229 Extremely flammable aerosol. Pressurized container: may burst if heated.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

Precautionary statements:

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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# **Safety Data Sheet**

# SPECIALE METALLO BLU TRAFFICO

# **BRILLANTE RAL 5017 ML 400**

P103 Read label before use.

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.

P271 Use only outdoors or in a well-ventilated area.

P405 Store locked up.

P410+P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122°F.

P501 Dispose of contents/container in accordance with applicable regulations.

Special Provisions:

None

Contains

Methyl acetate

n-butyl acetate

Special provisions according to Annex XVII of REACH and subsequent amendments:

None

2.3. Other hazards

vPvB Substances: None - PBT Substances: None

Other Hazards:

No other hazards

## **SECTION 3: Composition/information on ingredients**

3.1. Substances

N.A.

3.2. Mixtures

Hazardous components within the meaning of the CLP regulation and related classification:

>= 25% - < 30% Methyl acetate

REACH No.: 01-2119459211-47, Index number: 607-021-00-X, CAS: 79-20-9, EC: 201-185-2

- 2.6/2 Flam. Liq. 2 H225
- ◆ 3.3/2 Eye Irrit. 2 H319
- ◆ 3.8/3 STOT SE 3 H336

EUH066

>= 20% - < 25% Propano

REACH No.: 01-2119486944-21, Index number: 601-003-00-5, CAS: 74-98-6, EC: 200-827-9

- 2.2/1 Flam. Gas 1 H220
- ♦ 2.5 Press. Gas H280

>= 15% - < 20% n-butyl acetate

Index number: 607-025-00-1, CAS: 123-86-4, EC: 204-658-1

- 2.6/3 Flam. Liq. 3 H226
- 3.8/3 STOT SÉ 3 H336

**EUH066** 

>= 2% - < 3% methanol

Index number: 603-001-00-X, CAS: 67-56-1, EC: 200-659-6

- 2.6/2 Flam. Liq. 2 H225
- 3.1/3/Inhal Acute Tox. 3 H331
- 3.1/3/Dermal Acute Tox. 3 H311
- 3.1/3/Oral Acute Tox. 3 H301
- ♦ 3.8/1 STOT SE 1 H370

Specific Concentration Limits: 3% <= C < 10%: STOT SE 2 H371 C >= 10%: STOT SE 1 H370

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>= 0.5% - < 1% 2-butoxyethanol

REACH No.: 01-2119475108-36. Index number: 603-014-00-0. CAS: 111-76-2. EC: 203-905-0

- ◆ 3.1/4/Dermal Acute Tox. 4 H312
- 3.1/4/Inhal Acute Tox. 4 H332
- ◆ 3.1/4/Oral Acute Tox. 4 H302
- ♦ 3.3/2 Eve Irrit. 2 H319
- 3.2/2 Skin Irrit. 2 H315

#### **SECTION 4: First aid measures**

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

Areas of the body that have - or are only even suspected of having - come into contact with the product must be rinsed immediately with plenty of running water and possibly with soap.

Wash thoroughly the body (shower or bath).

Remove contaminated clothing immediately and dispose off safely.

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

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 opthalmologist immediately.

Protect uninjured eye.

In case of Ingestion:

Do not under any circumstances induce vomiting. OBTAIN A MEDICAL EXAMINATION IMMEDIATELY.

In case of Inhalation:

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

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

None

4.3. Indication of any 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:

None

### **SECTION 5: Firefighting measures**

5.1. Extinguishing media

Appropriate Extinguishing Media:

To carbon dioxide.

To dust.

Not Recommended Extinguishing Media:

5.2. Special hazards arising from the substance or mixture

Do not inhale explosion and combustion gases.

Burning produces heavy smoke.

5.3. Advice for firefighters

Use suitable breathing apparatus.

Collect contaminated fire extinguishing water separately. This must not be discharged into drains

Move undamaged containers from immediate hazard area if it can be done safely.

#### **SECTION 6: Accidental release measures**

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6.1. Personal precautions, protective equipment and emergency procedures

Wear personal protection equipment.

Remove all sources of ignition.

Remove persons to safety.

See protective measures under point 7 and 8.

6.2. Environmental precautions

Do not allow to enter into soil/subsoil. Do not allow to enter into surface water or drains.

Retain contaminated washing water and dispose it.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

Suitable material for taking up: absorbing material, organic, sand

6.3. Methods and material for containment and cleaning up

Wash with plenty of water.

6.4. Reference to other sections

See also section 8 and 13

#### **SECTION 7: Handling and storage**

7.1. Precautions for safe handling

Avoid contact with skin and eyes, inhalation of vapours and mists.

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:

Contamined clothing should be changed before entering eating areas.

Do not eat or drink while working.

7.2. Conditions for safe storage, including any incompatibilities

Store at below 50 °C. Keep away from unguarded flame and heat sources. Avoid direct exposure to sunlight.

Keep away from unguarded flame, sparks, and heat sources. Avoid direct exposure to sunlight. Keep away from food, drink and feed.

None in particular.

Instructions as regards storage premises:

Cool and adequately ventilated.

7.3. Specific end use(s)

None in particular

#### **SECTION 8: Exposure controls/personal protection**

8.1. Control parameters

Methyl acetate - CAS: 79-20-9

ACGIH - TWA(8h): 200 ppm - STEL: 250 ppm - Notes: Headache, dizziness, nausea,

eye dam (degeneration of ganglion cells in the retina)

Propano - CAS: 74-98-6

20101.13 - TWA: 1000 ppm 20101.14 - STEL: 1000 ppm

ACGIH - Notes: (D, EX) - Asphyxia

n-butyl acetate - CAS: 123-86-4

ACGIH - TWA(8h): 50 ppm - STEL: 150 ppm - Notes: Eye and URT irr

methanol - CAS: 67-56-1

EU - TWA(8h): 260 mg/m3, 200 ppm - Notes: Skin

ACGIH - TWA(8h): 200 ppm - STEL: 250 ppm - Notes: Skin, BEI - Headache, eye dam,

dizziness, nausea

2-butoxyethanol - CAS: 111-76-2

EU - TWA(8h): 98 mg/m3, 20 ppm - STEL: 246 mg/m3, 50 ppm - Notes: Skin

ACGIH - TWA(8h): 20 ppm - Notes: A3, BEI - Eye and URT irr

**DNEL Exposure Limit Values** 

Methyl acetate - CAS: 79-20-9

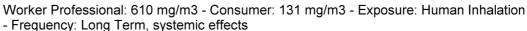
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# **BRILLANTE RAL 5017 ML 400**



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Worker Professional: 305 mg/m3 - Consumer: 152 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, local effects

Worker Professional: 88 mg/kg - Consumer: 44 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 44 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

n-butyl acetate - CAS: 123-86-4

Worker Professional: 48 mg/m3 - Consumer: 12 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Worker Professional: 600 mg/m3 - Consumer: 300 mg/m3 - Exposure: Human Inhalation - Frequency: Short Term, systemic effects

Worker Professional: 7 mg/kg - Consumer: 3.4 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Professional: 11 mg/kg - Consumer: 6 mg/kg - Exposure: Human Dermal -

Frequency: Short Term, systemic effects

Consumer: 2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects 2-butoxyethanol - CAS: 111-76-2

Worker Professional: 75 mg/kg - Consumer: 38 mg/kg - Exposure: Human Dermal -

Frequency: Long Term, systemic effects

Worker Professional: 98 mg/m3 - Consumer: 49 mg/m3 - Exposure: Human Inhalation -

Frequency: Long Term, systemic effects

Consumer: 3.2 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects PNEC Exposure Limit Values

Methyl acetate - CAS: 79-20-9

Target: Fresh Water - Value: 0.12 mg/l Target: Marine water - Value: 0.012 mg/l

Target: 09 - Value: 600 mg/l

Target: Freshwater sediments - Value: 0.128 mg/kg Target: Marine water sediments - Value: 0.013 mg/kg

n-butyl acetate - CAS: 123-86-4

Target: Fresh Water - Value: 180 03 Target: Marine water - Value: 18 03

Target: 09 - Value: 36.6 03

Target: Freshwater sediments - Value: 981 μg/kg Target: Marine water sediments - Value: 98.1 μg/kg

2-butoxyethanol - CAS: 111-76-2

Target: Microorganisms in sewage treatments - Value: 463 mg/l

Target: Freshwater sediments - Value: 34.6 mg/kg Target: Marine water sediments - Value: 3.46 mg/kg

Target: Fresh Water - Value: 8.8 mg/l

Target: Fresh Water - Value: 8.8 mg/l

8.2. Exposure controls

Eye protection:

Safety goggles.

Basket eye glasses.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

We recommend using rubber gloves.

Neoprene.

PVC (polyvinyl chloride).

Respiratory protection:

Use a suitable respiratory protection device.

Thermal Hazards:

None



Environmental exposure controls:
None
Appropriate engineering controls:
None

## **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes:
Appearance and colour:	Liquid (aerosol)		
Odour:	Characteristic solvente		
Odour threshold:	N.A.		
pH:	N.A.		
Melting point / freezing point:	N.A.		
Initial boiling point and boiling range:	N.A.		
Flash point:	< 0°C		
Evaporation rate:	N.A.		
Solid/gas flammability:	N.A.		
Upper/lower flammability or explosive limits:	N.A.		
Vapour pressure:	4 bar (20°C); 8 bar (50°C)		
Vapour density:	N.A.		
Relative density:	0.75 - 0.80 g/ ml		
Solubility in water:	N.A.		
Solubility in oil:	Soluble		
Partition coefficient (n-octanol/water):	N.A.		
Auto-ignition temperature:	N.A.		
Decomposition temperature:	N.A.		
Viscosity:	N.A.		
Explosive properties:	N.A.		



Oxidizing properties:	N.A.		
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#### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.		
Fat Solubility:	N.A.		
Conductivity:	N.A.		
Substance Groups relevant properties	N.A.		

NA=not applicable

### **SECTION 10: Stability and reactivity**

10.1. Reactivity

Stable under normal conditions

10.2. Chemical stability

Stable under normal conditions

- 10.3. Possibility of hazardous reactions None
- 10.4. Conditions to avoid

Stable under normal conditions.

- 10.5. Incompatible materials
- Hazardous decomposition products None.

### **SECTION 11: Toxicological information**

11.1. Information on toxicological effects Toxicological information of the product:

SPECIALE METALLO BLU TRAFFICO BRILLANTE RAL 5017 ML 400 a) acute toxicity

Based on available data, the classification criteria are not met b) skin corrosion/irritation

Based on available data, the classification criteria are not met c) serious eye damage/irritation

The product is classified: Eye Irrit. 2 H319

d) respiratory or skin sensitisation

Based on available data, the classification criteria are not met e) germ cell mutagenicity

Based on available data, the classification criteria are not met f) carcinogenicity

Based on available data, the classification criteria are not met g) reproductive toxicity

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

Based on available data, the classification criteria are not met j) aspiration hazard

Based on available data, the classification criteria are not met Toxicological information of the main substances found in the product:

Methyl acetate - CAS: 79-20-9

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rabbit 3705 mg/kg

2-butoxyethanol - CAS: 111-76-2

a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat = 450 Ppm - Duration: 4h

Test: LD50 - Route: Oral - Species: Rat = 1746 mg/kg Test: LD50 - Route: Skin - Species: pig = 6411 mg/kg

n-butyl acetate - CAS: 123-86-4

**OBSERVATIONS ON HUMAN SUBJECTS:** 

Inhalation: 3300 ppm (16 mg/l), for short periods, cause serious irritation to the eyes and to the nose.

Inhalation: 200-300 ppm (1-1.4 mg/l), for short periods, cause moderate irritation to the eyes and to the nose.

Inhaling the vapours can irritate the respiratory system.

The vapours can cause headache and nausea. As a liquid it can irritate the eyes and cause conjunctivitis, it can irritate the skin and cause dermatitis and, if swallowed, causes inebriation, hallucinations and sedation.

Symptoms of illness at 500 ppm. Serious toxic effects at 2,000 ppm for 60 min.

TCLo: 200 ppm

methanol - CAS: 67-56-1

**OBSERVATIONS ON HUMAN SUBJECTS:** 

Methanol poisoning as a result of ingestion produces three types of effect. The first to appear is a narcotic effect, similar to that observed in ethanol poisoning. The next to appear is metabolic acidosis, caused by an accumulation of formate which is produced more quickly than it is eliminated.

The third type of effect consists in disorders affecting vision and the nervous system. In human subjects, exposure (of variable intensity and duration) to methanol vapours causes irritation to all the mucous membranes, headache, buzzing in the ears, tiredness, insomnia, nystagmus, tremors, dizziness, nausea, colic, dilated pupils, double vision, blindness, itching of the skin, eczema and dermatitis.

### **SECTION 12: Ecological information**

12.1. Toxicity

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

2-butoxyethanol - CAS: 111-76-2

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia = 1550 mg/l - Duration h: 48 Endpoint: EC50 - Species: Algae = 911 mg/l - Duration h: 72 Endpoint: LC50 - Species: Fish = 1474 mg/l - Duration h: 96

12.2. Persistence and degradability

None

2-butoxyethanol - CAS: 111-76-2

Biodegradability: Readily biodegradable - Duration: 28gg - %: 90.4

12.3. Bioaccumulative potential

N.A.

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12.4. Mobility in soil

N.A.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Other adverse effects

None

### **SECTION 13: Disposal considerations**

13.1. Waste treatment 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.

### **SECTION 14: Transport information**



14.1. UN number

ADR-UN Number: 1950 IATA-UN Number: 1950 IMDG-UN Number: 1950

14.2. UN proper shipping name

ADR-Shipping Name: AEROSOLS, flammable

ADR-Shipping Name: Aerosol

IATA-Shipping Name: AEROSOLS, flammable

IATA-Technical name: Aerosol

IMDG-Shipping Name: AEROSOLS, flammable

IMDG-Technical name: Aerosol

14.3. Transport hazard class(es)

ADR-Class: 2
ADR - Hazard identification number:

 IATA-Class:
 2

 IATA-Label:
 2.1

 IMDG-Class:
 2

 Sea (IMO):
 2

14.4. Packing group

ADR-Packing Group: IATA-Packing group: IMDG-Packing group: -

14.5. Environmental hazards

ADR-Enviromental Pollutant: No IMDG-Marine pollutant: No

14.6. Special precautions for user

ADR-Subsidiary hazards: See SP63
ADR-S.P.: 190 327 344 625
ADR-Transport category (Tunnel restriction code): 2 (D)

IATA-Passenger Aircraft: 203
IATA-Subsidiary hazards: See SP63
IATA-Cargo Aircraft: 203

IATA-S.P.: A145 A167 A802

IATA-ERG: 10L
IMDG-Page: F-D, S-U
IMDG-EmS: F-D,
S-U

IMDG-Subsidiary hazards: See SP63

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IMDG-Stowage and handling: SW1 SW22 IMDG-Segregation: SG69

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

Nο

Limited Quantity: 1 L Exempted Quantity: E0

### **SECTION 15: Regulatory information**

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

Dir. 98/24/EC (Risks related to chemical agents at work)

Dir. 2000/39/EC (Occupational exposure limit values)

Regulation (EC) n. 1907/2006 (REACH) Regulation (EC) n. 1272/2008 (CLP)

Regulation (EC) n. 790/2009 (ATP 1 CLP) and (EU) n. 758/2013

Regulation (EU) 2015/830

Regulation (EU) n. 286/2011 (ATP 2 CLP)

Regulation (EU) n. 618/2012 (ATP 3 CLP)

Regulation (EU) n. 487/2013 (ATP 4 CLP)

Regulation (EU) n. 944/2013 (ATP 5 CLP)

Regulation (EU) n. 605/2014 (ATP 6 CLP)

Regulation (EU) n. 2015/1221 (ATP 7 CLP)

Regulation (EU) n. 2016/918 (ATP 8 CLP)

Regulation (EU) n. 2016/1179 (ATP 9 CLP)

Regulation (EU) n. 2017/776 (ATP 10 CLP)

Restrictions related to the product or the substances contained according to Annex XVII Regulation (EC) 1907/2006 (REACH) and subsequent modifications:

Restrictions related to the product:

Restriction 3

Restriction 40

Restrictions related to the substances contained:

Restriction 69

Volatile Organic compounds - VOCs = 78.70 %

Volatile Organic compounds - VOCs = 787.00 g/Kg

Volatile Organic compounds - VOCs = 590.25 g/l

Where applicable, refer to the following regulatory provisions:

Directive 2012/18/EU (Seveso III)

Regulation (EC) nr 648/2004 (detergents).

Dir. 2004/42/EC (VOC directive)

Provisions related to directive EU 2012/18 (Seveso III):

Seveso III category according to Annex 1, part 1

Product belongs to category: P3a

### 15.2. Chemical safety assessment

No Chemical Safety Assessment has been carried out for the mixture.

Substances for which a Chemical Safety Assessment has been carried out:

None

### **SECTION 16: Other information**

Text of phrases referred to under heading 3:

H225 Highly flammable liquid and vapour.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

H220 Extremely flammable gas.

H280 Contains gas under pressure; may explode if heated.

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H226 Flammable liquid and vapour.

H331 Toxic if inhaled.

H311 Toxic in contact with skin.

H301 Toxic if swallowed.

H370 Causes damage to organs if inhaled, in contact with skin and if swallowed.

H371 May cause damage to organs.

H370 Causes damage to organs.

H312 Harmful in contact with skin.

H332 Harmful if inhaled.

H302 Harmful if swallowed.

H315 Causes skin irritation.

Hazard class and hazard category	Code	Description
Flam. Gas 1	2.2/1	Flammable gas, Category 1
Aerosols 1	2.3/1	Aerosol, Category 1
Press. Gas	2.5	Gases under pressure
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3
Acute Tox. 3	3.1/3/Dermal	Acute toxicity (dermal), Category 3
Acute Tox. 3	3.1/3/Inhal	Acute toxicity (inhalation), Category 3
Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Inhal	Acute toxicity (inhalation), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 1	3.8/1	Specific target organ toxicity - single exposure, Category 1
STOT SE 2	3.8/2	Specific target organ toxicity - single exposure, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients

SECTION 7: Handling and storage SECTION 14: Transport information

Classification and procedure used to derive the classification for mixtures according to Regulation (EC) 1272/2008 [CLP]:

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Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Aerosols 1, H222+H229	On basis of test data
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method

This document was prepared by a competent person who has received appropriate training. Main bibliographic sources:

ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre,

Commission of the European Communities

SAX's DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS - Eight Edition - Van Nostrand Reinold

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.

It is the duty of the user to ensure that this information is appropriate and complete with respect to the specific use intended.

This MSDS 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.

GefStoffVO: Ordinance on Hazardous Substances, Germany

GHS: Globally Harmonized System of Classification and Labeling of

Chemicals.

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.

NA: Not applicable

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
WGK: German Water Hazard Class.