

#### Safety Data Sheet dated 6/7/2019, version 4

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

1.1. Product identifier

Mixture identification:

Trade name: CERA PROTETTIVA ML 250

Trade code: 8270

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

Recommended use:

Bodywork wax

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):

- Warning, Flam. Liq. 3, Flammable liquid and vapour.
- Warning, Skin Irrit. 2, Causes skin irritation.
- Warning, Eye Irrit. 2, Causes serious eye irritation.
- Warning, STOT SE 3, May cause drowsiness or dizziness. Aquatic Chronic 3, Harmful to aquatic life with long lasting effects.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Warning

Hazard statements:

H226 Flammable liquid and vapour.

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.

Precautionary statements:



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

P102 Keep out of reach of children.

P103 Read label before use.

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

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

P370+P378 In case of fire: Use ... to extinguish.

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

Contains

Kerosine (petroleum)

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

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:

>= 15% - < 20% Kerosine (petroleum)

REACH No.: 01-2119485517-27, CAS: 8008-20-6, EC: 232-366-4

- ♦ 2.6/3 Flam. Liq. 3 H226
- ♦ 3.10/1 Asp. Tox. 1 H304
- ◆ 3.8/3 STOT SE 3 H336
- 1.2/2 Skin Irrit. 2 H315
- 4.1/C2 Aquatic Chronic 2 H411

>= 5% - < 7% Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

REACH No.: 01-2119463258-33, CAS: 64742-48-9, EC: 919-857-5

- 2.6/3 Flam. Liq. 3 H226
- ♦ 3.10/1 Asp. Tox. 1 H304
- ◆ 3.8/3 STOT SE 3 H336

**EUH066** 

DECLP (CLP)\*

>= 0.1% - < 0.25% Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlor

REACH No.: 01-2119970550-39, CAS: 68424-85-1, EC: 939-253-5

- 2.16/1 Met. Corr. 1 H290
- ◆ 3.1/4/Oral Acute Tox. 4 H302
- ♦ 3.2/1B Skin Corr. 1B H314
- ♦ 3.3/1 Eye Dam. 1 H318
- ♦ 4.1/A1 Aquatic Acute 1 H400 M=10.
- 4.1/C1 Aquatic Chronic 1 H410

>= 0.1% - < 0.25% SODIO NITRITO C/A

REACH No.: 01-2119471836-27, Index number: 007-010-00-4, CAS: 7632-00-0, EC: 231-555-9



- 1 3.3/2 Eye Irrit. 2 H319
- 3.1/3/Oral Acute Tox. 3 H301
- ♦ 2.14/2 Ox. Sol. 2 H272

\*DECLP (CLP): Substance classified in accordance with Note P, Annex VI of EC Regulation (EC) 1272/2008. The classification as a carcinogen or mutagen need not apply if it can be shown that the substance contains less than 0,1 % w/w benzene (Einecs No 200-753-7). When the substance is not classified as a carcinogen at least the precautionary statements (P102-)P260-P262-P301 + P310-P331 shall apply. This note applies only to certain complex oil-derived substances in Part 3.

### **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.

Foam

Water spray.

Not Recommended Extinguishing Media:

Do not use direct water jets.

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**

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

Always keep in a well ventilated place.

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

Kerosine (petroleum) - CAS: 8008-20-6

ACGIH - TWA(8h): 200 mg/m3 - Notes: (P), Skin, A3 - Skin and URT irr, CNS impair Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9 ACGIH - TWA: 1200 mg/m3, 197 ppm

**DNEL Exposure Limit Values** 

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9 Worker Professional: 208 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Worker Professional: 871 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects

Consumer: 125 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects

Consumer: 185 mg/m3 - Exposure: Human Inhalation - Frequency: Long Term, systemic effects



Consumer: 125 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

**PNEC Exposure Limit Values** 

sodium nitrite - CAS: 7632-00-0

Target: Fresh Water - Value: 0.0054 mg/l Target: Marine water - Value: 0.00616 mg/l

Target: Marine water sediments - Value: 0.0223 mg/kg Target: Freshwater sediments - Value: 0.0195 mg/kg

Target: 09 - Value: 21 mg/l

8.2. Exposure controls

Eye protection:

Use close fitting safety goggles, don't use eye lens.

Protection for skin:

No special precaution must be adopted for normal use.

Protection for hands:

Use protective gloves that provides comprehensive protection, e.g. P.V.C., neoprene or rubber.

Respiratory protection:

Use adequate protective respiratory equipment.

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:	Crema morbida beige	-	
Odour:	Characteristic		
Odour threshold:	N.A.		
pH:	N.A.		
Melting point / freezing point:	N.A.		
Initial boiling point and boiling range:	>100°C		
Flash point:	40°C		
Evaporation rate:	N.A.		
Solid/gas flammability:	N.A.		
Upper/lower flammability or explosive limits:	N.A.	-	
Vapour pressure:	N.A.		
Vapour density:	N.A.		
Relative density:	1 g/cm3		



Solubility in water:	N.A.	 
Solubility in oil:	N.A.	 
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.	 

#### 9.2. Other information

Properties	Value	Method:	Notes:
Miscibility:	N.A.		
Fat Solubility:	N.A.		
Conductivity:	>500 µS		
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
- 10.4. Conditions to avoid

Stable under normal conditions.

10.5. Incompatible materials

Avoid contact with combustible materials. The product could catch fire.

10.6. Hazardous decomposition products None.

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

11.1. Information on toxicological effects
Toxicological information of the product:
CERA PROTETTIVA ML 250

a) acute toxicity

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. 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:

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9 a) acute toxicity:

Test: LC50 - Route: Inhalation - Species: Rat > 4951 mg/m3 - Duration: 4h - Source: ECHA BP - SUPPLIER SDS

Test: LD50 - Route: Oral - Species: Rat > 5000 mg/kg - Source: ECHA BP - SUPPLIER SDS

Test: LD50 - Route: Skin - Species: Rabbit > 5000 mg/kg - Source: ECHA BP - SUPPLIER SDS

h) STOT-single exposure:

Test: May cause drowsiness and dizziness. Positive - Source: SUPPLIER SDS - No data available for the product

i) STOT-repeated exposure:

Test: OECD 422 Negative - Source: SUPPLIER SDS

Test: NOAEL - Route: Oral - Species: Rat > 1000 mg/kg - Source: ECHA BP Test: NOAEL - Route: Inhalation - Species: Rat 200 Ppm - Source: ECHA BP

Test: NOAEC - Route: Inhalation - Species: Rat > 275 mg/m3 - Source: ECHA BP j) aspiration hazard:

Test: May be fatal if swallowed and enters airways (physical-chemical properties) - Route: Oral - Source: SUPPLIER SDS

Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlor - CAS: 68424-85-1

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 426 mg/kg Test: LD50 - Route: Skin - Species: Rat 400-2000 mg/kg

sodium nitrite - CAS: 7632-00-0

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat 180 mg/kg

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

12.1. Toxicity

Adopt good working practices, so that the product is not released into the environment. Kerosine (petroleum) - CAS: 8008-20-6

a) Aquatic acute toxicity:

Endpoint: EL50 - Species: Daphnia > 1 mg/l - Duration h: 48



Endpoint: EL50 - Species: Algae > 1 mg/l - Duration h: 72 Endpoint: LL50 - Species: Fish > 1 mg/l - Duration h: 96

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics - CAS: 64742-48-9 a) Aquatic acute toxicity:

Endpoint: EL0 - Species: Daphnia 1000 mg/l - Duration h: 48 Endpoint: EL50 - Species: Algae > 1000 mg/l - Duration h: 72 Endpoint: LL50 - Species: Fish > 1000 mg/l - Duration h: 96 Endpoint: NOELR - Species: Algae 100 mg/l - Duration h: 72

Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlor - CAS: 68424-85-1

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Algae 670 μg/l - Duration h: 96 Endpoint: EC50 - Species: Daphnia 5.9 ppb - Duration h: 48 Endpoint: LC50 - Species: Fish 0.28 Ppm - Duration h: 96

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Daphnia 0.025 mg/l - Duration h: 504

sodium nitrite - CAS: 7632-00-0

a) Aquatic acute toxicity:

Endpoint: LC50 - Species: Fish 0.54-26.3 mg/l - Duration h: 96 Endpoint: LC50 - Species: Daphnia 4.93 mg/l - Duration h: 96

Endpoint: EC50 - Species: Daphnia 15.4 mg/l - Duration h: 48 - Notes: OECD 202 Endpoint: EC50 - Species: Algae > 100 mg/l - Duration h: 72 - Notes: OECD 201

Endpoint: EC50 - Species: fanghi 421 mg/l - Duration h: 48

Endpoint: CE5 - Species: fanghi 210 mg/l - Duration h: 3 - Notes: OECD 209

b) Aquatic chronic toxicity:

Endpoint: NOEC - Species: Fish 6.16 mg/l - Duration h: 240 Endpoint: NOEC - Species: Daphnia 9.86 mg/l - Duration h: 744

12.2. Persistence and degradability

None

Kerosine (petroleum) - CAS: 8008-20-6

Biodegradability: 4 - Duration: 28gg - %: 60

Quaternary ammonium compounds, benzyl C12-16 (even numbered)-alkyldimethyl chlor - CAS: 68424-85-1

Biodegradability: Readily biodegradable - Test: BIOGDG08 - Duration: 28gg - %: 61

12.3. Bioaccumulative potential

sodium nitrite - CAS: 7632-00-0

Bioaccumulation: Not bioaccumulative

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

8270/4

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ADR-UN Number: 3082 IATA-UN Number: 3082 IMDG-UN Number: 3082

14.2. UN proper shipping name

ADR-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(Kerosine (petroleum), Hydrocarbons, C9-C11,

n-alkanes, isoalkanes, cyclics, < 2% aromatics)

ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, IATA-Shipping Name:

N.O.S.(Kerosine (petroleum), Hydrocarbons, C9-C11,

n-alkanes, isoalkanes, cyclics, < 2% aromatics)

IMDG-Shipping Name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID,

N.O.S.(Kerosine (petroleum), Hydrocarbons, C9-C11,

n-alkanes, isoalkanes, cyclics, < 2% aromatics)

14.3. Transport hazard class(es)

ADR-Class:

ADR - Hazard identification number: 90

IATA-Class: 9 IATA-Label: 9 IMDG-Class: 9

14.4. Packing group

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

14.5. Environmental hazards

ADR-Enviromental Pollutant: Yes

IMDG-Marine pollutant: Marine Pollutant

14.6. Special precautions for user

ADR-Subsidiary hazards:

274 335 375 601 ADR-S.P.: ADR-Transport category (Tunnel restriction code): 3 (-)

IATA-Passenger Aircraft: 964 IATA-Subsidiary hazards: IATA-Cargo Aircraft: 964

IATA-S.P.: A97 A158 A197

IATA-ERG: 9L IMDG-EmS: F-A, S-F

IMDG-Subsidiary hazards:

IMDG-Stowage and handling: Category A

IMDG-Segregation:

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

Limited Quantity: 5 L Exempted Quantity: E1

#### **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 70

Volatile Organic compounds - VOCs = 5.15 % Volatile Organic compounds - VOCs = 51.48 g/Kg Volatile Organic compounds - VOCs = 51.48 g/I

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: P5c

#### 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:

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H315 Causes skin irritation.

H411 Toxic to aquatic life with long lasting effects.

EUH066 Repeated exposure may cause skin dryness or cracking.

H290 May be corrosive to metals.

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

H319 Causes serious eye irritation.

H301 Toxic if swallowed.

H272 May intensify fire; oxidiser.

Hazard class and hazard category	Code	Description
Ox. Sol. 2	2.14/2	Oxidising solid, Category 2
Met. Corr. 1	2.16/1	Substance or mixture corrosive to metals, Category 1
Flam. Liq. 3	2.6/3	Flammable liquid, Category 3



Acute Tox. 3	3.1/3/Oral	Acute toxicity (oral), Category 3
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
Asp. Tox. 1	3.10/1	Aspiration hazard, Category 1
Skin Corr. 1B	3.2/1B	Skin corrosion, Category 1B
Skin Irrit. 2	3.2/2	Skin irritation, Category 2
Eye Dam. 1	3.3/1	Serious eye damage, Category 1
Eye Irrit. 2	3.3/2	Eye irritation, Category 2
STOT SE 3	3.8/3	Specific target organ toxicity - single exposure, Category 3
Aquatic Acute 1	4.1/A1	Acute aquatic hazard, category 1
Aquatic Chronic 1	4.1/C1	Chronic (long term) aquatic hazard, category 1
Aquatic Chronic 2	4.1/C2	Chronic (long term) aquatic hazard, category 2
Aquatic Chronic 3	4.1/C3	Chronic (long term) aquatic hazard, category 3

Paragraphs modified from the previous revision:

SECTION 3: Composition/information on ingredients

SECTION 7: Handling and storage SECTION 11: Toxicological information SECTION 14: Transport information SECTION 15: Regulatory information SECTION 16: Other information

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

Classification according to Regulation (EC) Nr. 1272/2008	Classification procedure
Flam. Liq. 3, H226	On basis of test data
Skin Irrit. 2, H315	Calculation method
Eye Irrit. 2, H319	Calculation method
STOT SE 3, H336	Calculation method
Aquatic Chronic 3, H412	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.