



Safety Data Sheet dated 4/7/2024, version 1

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

1.1. Product identifier

Mixture identification:

Trade name: MAC Alta scivolosità

UFI: V200-U0CW-6006-QH5A

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

Recommended use:

Semi-permanent surface coating.

PROFESSIONAL USE.

CONSUMER USE.

Uses advised against:

Do not use for purposes other than those listed.

1.3. Details of the supplier of the safety data sheet

Company: WRS S.r.l.

Via Pirano 6/M, 61010 Tavullia (PU), Italy

telephone +39 (0)541 1797778

e-mail address info@wrs.it

Competent person responsible for the safety data sheet:

info@wrs.it

1.4. Emergency telephone number

WRS S.r.l. Tel. +39 0541 179 7778 (9:30 -12:30; 15:00 – 18:00)

Poison centers (h24):

Ospedale Niguarda Ca' Granda di Milano Tel. +39 02 66101029.

Ospedale Pediatrico Bambino Gesù di Roma Tel. +39 06 68593726

Az. Osp. Univ. Di Foggia Tel. +39 800183459

Az. Osp. A. Cardarelli di Napoli Tel. +39 081-5453333

Policlinico Umberto I di Roma Tel. +39 06 49978000

Policlinico A. Gemelli di Roma Tel. +39 06 3054343

Az. Osp. Careggi U.O. Tossicologia Medica di Firenze Tel. +39 055 7947819

Centro Nazionale di Informazione Tossicologica di Pavia Tel. +39 0382 24444

Azienda Ospedaliera Papa Giovanni XXII di Bergamo Tel. +39 800883300

Azienda Ospedaliera Integrata Verona Tel. +39 800011858

Europe 112

Austria +43 (0)1 406 43 43

Bulgaria +359 2 9154 233 (24/7)

Croatia +385 1 2348 342 (24/7)

Czech Republic +420 224 919 293, +420 224 915 402

Denmark +45 8212 12 12

Estonia 16662 (24/7)

Finland 0800 147 111 (call is free of charge) +358 9 471 977

France +33 (0)1 45 42 59 59 (24/7)

Greece +30 2107793777 (24/7)

Iceland 543 2222 (24/7)

Ireland +353 1 809 21 66 (8am-10pm; 7 days a week)

Latvia +371 67042473

Lithuania +370 (85) 2362052

Luxembourg +352 8002 5500 (24/7)
Netherlands +31 (0)88 755 8000
Norway +47 22 59 13 00
Portugal +351 800 250 250 (24/7)
Romania +40213183606
Slovakia +421 2 5477 4166
Slovenia 112
Spain +34 91 562 04 20 (24/7)
Sweden +46 10 456 6700
Cyprus 1401

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

EC regulation criteria 1272/2008 (CLP)

Skin Irrit. 2, H315 Causes skin irritation.

Eye Dam. 1, H318 Causes serious eye damage.

Adverse physicochemical, human health and environmental effects:

No other hazards

2.2. Label elements

Hazard pictograms:



Danger

Hazard statements:

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary statements:

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

P102 Keep out of reach of children.

P280 Wear protective gloves and eye/face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a POISON CENTER or a doctor.

Special Provisions:

EUH208 Contains 3-aminopropyltriethoxysilane; N-butyl-N-[(triethoxysilyl)methyl]butan-1-amine. May produce an allergic reaction.

Contains

Polysilazane, cyclic and linear, methyl hydrogen, methylvinyl

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

None

2.3. Other hazards

No PBT, vPvB or endocrine disruptor substances present in concentration $\geq 0.1\%$

Other Hazards:

No other hazards

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

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

Qty	Name	Ident. Number	Classification
1<C <5 %	Polysilazane, cyclic and linear, methyl hydrogen, methylvinyl	CAS: 503590-70-3 EC: 640-365-9	2.12/3 Water-react. 3 H261 2.6/2 Flam. Liq. 2 H225 3.1/4/Oral Acute Tox. 4 H302 3.1/4/Dermal Acute Tox. 4 H312 3.2/1B Skin Corr. 1B H314 3.3/1 Eye Dam. 1 H318 Acute Toxicity Estimate: ATE - Oral 500 mg/kg bw ATE - Dermal 1100 mg/kg bw
0.1<C <1 %	3-aminopropyltriethoxysilane	Index number: 612-108-00-0 CAS: 919-30-2 EC: 213-048-4 REACH No.: 01-2119480479-24	3.1/4/Oral Acute Tox. 4 H302 3.3/1 Eye Dam. 1 H318 3.2/1B Skin Corr. 1B H314 3.4.2/1 Skin Sens. 1 H317 Acute Toxicity Estimate: ATE - Oral 500 mg/kg bw
0.1<C <1 %	N-butyl-N-[(trietossisilil)metil]butan-1-ammina	CAS: 35501-23-6 EC: 810-490-5 REACH No.: 01-2120096609-40	3.4.2/1B Skin Sens. 1B H317

SECTION 4: First aid measures

4.1. Description of first aid measures

In case of skin contact:

Immediately take off all contaminated clothing.

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

If skin irritation occurs: Get medical advice/attention.

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 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

No data available for the mixture. See section 11 for symptoms and effects of the substances.

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:

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media:

CO2 or Dry chemical fire extinguisher.

Extinguishing media which must not be used for safety reasons:

Water.

Phosphates

5.2. Special hazards arising from the substance or mixture

Hazardous combustion products:

Polysilazane, cyclic and linear, methyl hydrogen, methylvinyl:

The vapors are heavier than air and spread along the ground. Pay attention to flashback.

Forms explosive mixtures with air at room temperature. In case of fire, formation of dangerous gases and vapors possible.

Avoid contact with water. Warning! On contact with water the product releases: hydrogen, ammonia

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 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 dust/mist/vapours/spray.

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.

7.2. Conditions for safe storage, including any incompatibilities

Store in a cool, well-ventilated area, away from heat, flames, sparks and other sources of ignition. Avoid direct exposure to sunlight.

Store in tightly closed original container in a dry and cool place.

It is advisable to store the product at temperatures between 15°C and 25°C.

Keep away from food, drink and feed.

Incompatible materials:

See subsection 10.5

Instructions as regards storage premises:

Adequately ventilated premises.

7.3. Specific end use(s)

See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Polysilazane, cyclic and linear, methyl hydrogen, methylvinyl - CAS: 503590-70-3

- OEL Type: EU - TWA: 14 mg/m³, 20 ppm - STEL: 36 mg/m³, 50 ppm - Notes: Ammonia, anhydrous CAS 7664-41-7 (decomposition product) 2000/39/EC

- OEL Type: ACGIH - TWA: 25 ppm - STEL: 35 ppm - Notes: Ammonia

DNEL Exposure Limit Values

3-aminopropyltriethoxysilane - CAS: 919-30-2

Consumer: 1 mg/kg - Exposure: Human Oral - Frequency: Long Term, systemic effects

Worker Professional: 14 mg/m³ - Consumer: 3.5 mg/m³ - Exposure: Human Inhalation - Frequency: Long Term, systemic effects - Notes: Repeated dose toxicity

Worker Professional: 2 mg/kg - Consumer: 1 mg/kg - Exposure: Human Dermal - Frequency: Long Term, systemic effects - Notes: Repeated dose toxicity

PNEC Exposure Limit Values

3-aminopropyltriethoxysilane - CAS: 919-30-2

Target: Fresh Water - Value: 0.5 mg/l

Target: Marine water - Value: 0.05 mg/l

Target: STP - Value: 1.3 mg/l

Target: Freshwater sediments - Value: 1.8 mg/kg

Target: Marine water sediments - Value: 0.18 mg/kg

Target: Soil (agricultural) - Value: 0.069 mg/kg

Target: STP - Value: 0.81 mg/kg

8.2. Exposure controls

Eye protection:

Use protective goggles if eye contact might occur.

The use of protective glasses (EN166) is recommended.

Protection for skin:

Avoid skin contact.

Full protective clothing resistant to chemicals. The type of protective equipment must be selected according to the concentration and the amount of hazardous substance at the workplace.

Protection for hands:

Wear protective gloves that comply with EN 374. To ensure protection, gloves must be the right size and used correctly. Check that the permeation time of the glove material is not exceeded. Refer to the glove supplier for information on the permeation time for specific gloves.

For prolonged and repeated contact, assess a 1.25 mm thick nitrile glove. For short contact, assess a 0.198 mm thick nitrile/neoprene glove.

Respiratory protection:

No respiratory protection is normally required. However, avoid the inhalation of vapors, aerosols or gases.

In case of insufficient ventilation or formation of vapours/aerosols, wear a mask with an ABEK filter.

Thermal Hazards:

None

Environmental exposure controls:

See section 7 and 13.

Appropriate engineering controls:

Ensure adequate ventilation of the premises.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Properties	Value	Method:	Notes
Physical state:	Liquid	--	semi-transparent suspension
Colour:	Colourless	--	--
Odour:	ammonia	--	--
Melting point/freezing point:	not determined	--	--
Boiling point or initial boiling point and boiling range:	not determined	--	--
Flammability:	Non-flammable	--	--
Lower and upper explosion limit:	not determined	--	--
Flash point:	64 ° C	ASTM D93-18	--
Auto-ignition temperature:	no data available	--	--
Decomposition temperature:	no data available	--	--
pH:	Not applicable	--	Mixture not water-soluble
Kinematic viscosity:	not determined	--	Main ingredient: ca. 50 mm ² /s (25°C)
Solubility in water:	Not applicable	--	--
Solubility in oil:	not determined	--	--
Partition coefficient n-octanol/water (log value):	Not applicable	--	mixture
Vapour pressure:	not determined	--	--
Density and/or relative density:	0.95 Kg/L circa	--	--
Relative vapour density:	not determined	--	--
Particle characteristics:			
Particle size:	Not applicable	--	--

9.2. Other information

No other relevant information

SECTION 10: Stability and reactivity

10.1. Reactivity

Vapours may form explosive mixtures with air.



- In the presence of water it can slowly hydrolyze forming hydrogen and ammonia gas.
- 10.2. Chemical stability
 - Sensitive to moisture.
 - 10.3. Possibility of hazardous reactions
 - Vapours may form explosive mixture with air.
 - Reacts with water, alcohols, amines, acids.
 - 10.4. Conditions to avoid
 - Avoid moisture and heat.
 - Avoid overheating, electrostatic discharge and all sources of ignition.
 - 10.5. Incompatible materials
 - Water.
 - Oxidizing agents, acids, alkalis.
 - Halogenated compounds.
 - 10.6. Hazardous decomposition products
 - Ammonia
 - Hydrogen.
 - 3-Aminopropyltriethoxysilane: by hydrolysis it can develop ethanol. If the ethanol produced is transformed, acetaldehyde may develop in the presence of oxygen and heat. The material can create acetaldehyde if heated with inorganic pigments in the presence of air.

SECTION 11: Toxicological information

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

Toxicological information of the product:

- 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 Dam. 1 H318
- d) respiratory or skin sensitisation
 - Not classified
 - Based on available data, the classification criteria are not met
- e) germ cell mutagenicity
 - Not classified
 - Based on available data, the classification criteria are not met
- f) carcinogenicity
 - Not classified
 - Based on available data, the classification criteria are not met
- g) reproductive toxicity
 - Not classified
 - Based on available data, the classification criteria are not met
- h) STOT-single exposure
 - Not classified
 - Based on available data, the classification criteria are not met
- i) STOT-repeated exposure
 - Not classified
 - Based on available data, the classification criteria are not met
- j) aspiration hazard
 - Not classified



Based on available data, the classification criteria are not met

Toxicological information of the main substances found in the product:

Polysilazane, cyclic and linear, methyl hydrogen, methylvinyl - CAS: 503590-70-3

a) acute toxicity

ATE - Oral 500 mg/kg bw

ATE - Dermal 1100 mg/kg bw

Test: LD50 - Route: Oral - Species: Rat > 500 mg/kg - Notes: Symptoms: If swallowed, it causes severe burning of the mouth and throat, as well as perforation of the esophagus and stomach.

Test: LD50 - Route: Skin - Species: Rabbit > 1000 mg/kg - Notes: Causes burns

Test: Respiratory Tract Irritant - Route: Inhalation Positive - Notes: Irritation of the mucous membranes, cough, shortness of breath, damage to the respiratory system.

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive - Duration: 24h - Notes: Causes burns

c) serious eye damage/irritation:

Test: Eye Corrosive Positive - Notes: Risk of blindness

3-aminopropyltriethoxysilane - CAS: 919-30-2

a) acute toxicity

ATE - Oral 500 mg/kg bw

Test: LD50 - Route: Oral - Species: Rat = 1490 mg/kg - Notes: EPA

Test: LC50 - Route: Inhalation - Species: Rat female > 20 mg/l - Duration: 4h - Notes: Vapour, OECD 403

Test: LD50 - Route: Skin - Species: Rabbit > 2000 mg/kg - Notes: EPA - Non-toxic after single exposure

Test: LC50 - Route: Inhalation - Species: Rat female > 144 mg/l - Duration: 6h - Notes: Vapour, OECD 403

b) skin corrosion/irritation:

Test: Skin Corrosive - Route: Skin - Species: Rabbit Positive - Duration: <1h - Notes: OECD 404

c) serious eye damage/irritation:

Test: Eye Corrosive - Route: Eyes - Species: Rabbit Positive - Notes: OECD 405

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Guinea pig Positive - Notes: Buehler Test, OECD 406

e) germ cell mutagenicity:

Test: Mutagenesis (Ames test) Negative - Notes: OCSE 471

Test: 26 Negative - Notes: OECD 476

Test: In vitro chromosome aberration test Negative - Notes: OECD 473

Test: Mutagenensis (Micronucleus Test) - Route: intraperitoneal - Species: Mouse Negative - Notes: OECD 474

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

j) aspiration hazard:

Based on available data, the classification criteria are not met

N-butyl-N-[(trietossisilil)metil]butan-1-ammina - CAS: 35501-23-6

a) acute toxicity:

Test: LD50 - Route: Oral - Species: Rat female > 2000 mg/kg

b) skin corrosion/irritation:

Test: Skin Irritant - Route: Skin Negative

c) serious eye damage/irritation:

Test: Eye Irritant - Route: Eyes Negative

d) respiratory or skin sensitisation:

Test: Skin Sensitization - Route: Skin - Species: Mouse Positive

e) germ cell mutagenicity:

Test: In vitro mutation test Negative

11.2. Information on other hazards

Endocrine disrupting properties:

No endocrine disruptor substances present in concentration $\geq 0.1\%$

SECTION 12: Ecological information

12.1. Toxicity

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

Not classified for environmental hazards

Based on available data, the classification criteria are not met

3-aminopropyltriethoxysilane - CAS: 919-30-2

a) Aquatic acute toxicity:

Endpoint: LC0 - Species: Fish (Brachydanio rerio) > 934 mg/l - Duration h: 96 - Notes: OECD 203

Endpoint: EC50 - Species: Algae (Desmodesmus subspicatus) > 1000 mg/l - Duration h: 72 - Notes: OCSE 201

Endpoint: NOEC - Species: Algae (Desmodesmus subspicatus) = 1.3 mg/l - Duration h: 72 - Notes: OCSE 201

c) Bacteria toxicity:

Endpoint: EC10 - Species: Pseudomonas putida = 13 mg/l - Duration h: 5.75 - Notes: DIN EN ISO 10712

h) Invertebrates toxicity:

Endpoint: EC50 - Species: Daphnia magna = 331 mg/l - Duration h: 48 - Notes: OCSE 202

N-butyl-N-[(trietossisilil)metil]butan-1-ammina - CAS: 35501-23-6

a) Aquatic acute toxicity:

Endpoint: EC50 - Species: Daphnia magna > 4 mg/l - Duration h: 48

12.2. Persistence and degradability

3-aminopropyltriethoxysilane - CAS: 919-30-2

Biodegradability: Not readily biodegradable - Test: COD - Duration h: 28 days - %: 67 - Notes: Test Die Away - 79/831/CEE C.4-A

N-butyl-N-[(trietossisilil)metil]butan-1-ammina - CAS: 35501-23-6

Biodegradability: Not readily biodegradable

12.3. Bioaccumulative potential

3-aminopropyltriethoxysilane - CAS: 919-30-2

Test: Log Kow 1.7 - Notes: 20 °C, QSAR

12.4. Mobility in soil

3-aminopropyltriethoxysilane - CAS: 919-30-2

Low soil adsorption.

12.5. Results of PBT and vPvB assessment

vPvB Substances: None - PBT Substances: None

12.6. Endocrine disrupting properties

No endocrine disruptor substances present in concentration $\geq 0.1\%$

12.7. 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 or ID number

Not classified as dangerous in the meaning of transport regulations.

14.2. UN proper shipping name

Not applicable

14.3. Transport hazard class(es)

Not applicable

14.4. Packing group

Not applicable

14.5. Environmental hazards

ADR-Environmental Pollutant: No

IMDG-Marine pollutant: No

14.6. Special precautions for user

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

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) n. 2020/878

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)

Regulation (EU) n. 2018/669 (ATP 11 CLP)

Regulation (EU) n. 2018/1480 (ATP 13 CLP)

Regulation (EU) n. 2019/521 (ATP 12 CLP)

Regulation (EU) n. 2020/217 (ATP 14 CLP)

Regulation (EU) n. 2020/1182 (ATP 15 CLP)

Regulation (EU) n. 2021/643 (ATP 16 CLP)

Regulation (EU) n. 2021/849 (ATP 17 CLP)

Regulation (EU) n. 2022/692 (ATP 18 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

Restrictions related to the substances contained:

Restriction 40

Restriction 75

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

None

15.2. Chemical safety assessment

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

SECTION 16: Other information

Full text of phrases referred to in Section 3:

H261 In contact with water releases flammable gases.

H225 Highly flammable liquid and vapour.

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.

H317 May cause an allergic skin reaction.

Hazard class and hazard category	Code	Description
Water-react. 3	2.12/3	Substance or mixture which in contact with water emits flammable gas, Category 3
Flam. Liq. 2	2.6/2	Flammable liquid, Category 2
Acute Tox. 4	3.1/4/Dermal	Acute toxicity (dermal), Category 4
Acute Tox. 4	3.1/4/Oral	Acute toxicity (oral), Category 4
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
Skin Sens. 1	3.4.2/1	Skin Sensitisation, Category 1
Skin Sens. 1B	3.4.2/1B	Skin Sensitisation, Category 1B

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
Skin Irrit. 2, H315	Calculation method
Eye Dam. 1, H318	Calculation method



This document was prepared by a competent person who has received appropriate training.

Main bibliographic sources:

ECHA website: <https://echa.europa.eu/home>

IFA GESTIS website: <https://limitvalue.ifa.dguv.de>

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.
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.