

Safety Data Sheet

according to WHS Regulations

Printing date 26.10.2017

Version number 1801

Revision: 26.10.2017

1 Identification

Product identifier

- Trade name: **T1 Spray**
- Article number: 5140-0969
- Relevant identified uses of the substance or mixture and uses advised against: No further relevant information available.
- Application of the substance / the mixture: Milling additive

Details of the supplier of the safety data sheet

- Manufacturer/Supplier: SIRONA Dental Systems GmbH
Fabrikstraße 31
D-64625 Bensheim
Germany
<http://www.sirona.de>
Tel.: +49 (0) 6251/16-1670
Fax: +49 (0) 6251/16-1818

- Manufacturer: Graichen Produktions-und Vertriebs-GmbH
Darmstädterstraße 127-129
D-64625 Bensheim
Germany
Tel.: +49 6251 73103
Fax: +49 6251 77901
E-Mail: ehs@graichen-bensheim.de
www.graichen.net


- Further information obtainable from: Environment protection department
- Emergency telephone number: Advice centre for poisoning university Mainz phone +49(0)6131/19240 or poison information:+49(0)700/GIFTINFO

2 Hazard(s) Identification

Classification of the substance or mixture

- Aerosol 1 H222 Extremely flammable aerosol.
- STOT SE 3 H336 May cause drowsiness or dizziness.
- Asp. Tox. 1 H304 May be fatal if swallowed and enters airways.

Label elements

- GHS label elements: The product is classified and labelled according to the Globally Harmonised System (GHS).
- Hazard pictograms: 
GHS02 GHS07 GHS08
- Signal word: Danger
- Hazard statements: Extremely flammable aerosol.
May cause drowsiness or dizziness.
May be fatal if swallowed and enters airways.
- Precautionary statements: Keep away from heat/sparks/open flames/hot surfaces. No smoking.
Do not spray on an open flame or other ignition source.
Pressurized container: Do not pierce or burn, even after use.
Avoid breathing dust/fume/gas/mist/vapours/spray.
IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
Do NOT induce vomiting.
Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
Dispose of contents/container in accordance with local/regional/national/international regulations.
- Additional information: In use, may form flammable/explosive vapour-air mixture.
- Other hazards**
- Results of PBT and vPvB assessment
- PBT: Not applicable.
- vPvB: Not applicable.

3 Composition and Information on Ingredients

Chemical characterisation: Mixtures

- Description: Active substance with propellant

Dangerous components:

106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0)) ⚠ Flam. Gas 1, H220; ⚠ Press. Gas C, H280	25-50%
74-98-6	propane ⚠ Flam. Gas 1, H220; ⚠ Press. Gas C, H280	10-25%
64742-49-0	Naphta (Petroleum) hydrotreated light ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	2.5-10%

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	Naphta (Petroleum) hydrotreated light ⚠ Flam. Liq. 2, H225; ⚠ Asp. Tox. 1, H304; ⚠ STOT SE 3, H336	2.5-10%
110-54-3	n-hexane ⚠ Flam. Liq. 2, H225; ⚠ Repr. 2, H361; STOT RE 2, H373; ⚠ Asp. Tox. 1, H304; ⚠ Skin Irrit. 2, H315; STOT SE 3, H336	<2.5%

· Additional information: For the wording of the listed hazard phrases refer to section 16.

4 First Aid Measures

· **Description of first aid measures**

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| <ul style="list-style-type: none"> · General information: · After inhalation: · After skin contact: · After eye contact: · After swallowing: · Information for doctor: · Most important symptoms and effects, both acute and delayed · Indication of any immediate medical attention and special treatment needed | <p>Personal protection for the First Aider.</p> <p>In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.</p> <p>If skin irritation continues, consult a doctor.</p> <p>Immediately wash with water and soap and rinse thoroughly.
Wash with water and soap and rinse thoroughly</p> <p>Rinse opened eye for several minutes under running water.</p> <p>A person vomiting while laying on their back should be turned onto their side.</p> <p>No further relevant information available.</p> <p>No further relevant information available.</p> |
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5 Fire Fighting Measures

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| <ul style="list-style-type: none"> · Extinguishing media · Suitable extinguishing agents: · For safety reasons unsuitable extinguishing agents: · Special hazards arising from the substance or mixture · Advice for firefighters · Protective equipment: · Additional information | <p>CO₂, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.</p> <p>CO₂, sand, extinguishing powder. Do not use water.</p> <p>Water
Water with full jet</p> <p>In case of fire, the following can be released:
Carbon monoxide (CO)
Carbondioxid (CO₂)</p> <p>Wear self-contained respiratory protective device.
Cool endangered receptacles with water spray.</p> |
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6 Accidental Release Measures

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| <ul style="list-style-type: none"> · Personal precautions, protective equipment and emergency procedures · Environmental precautions: · Methods and material for containment and cleaning up: · Reference to other sections | <p>Ensure adequate ventilation
Keep away from ignition sources.</p> <p>Do not allow product to reach sewage system or any water course.
Inform respective authorities in case of seepage into water course or sewage system.</p> <p>Ensure adequate ventilation.
Do not flush with water or aqueous cleansing agents</p> <p>See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.</p> |
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7 Handling and Storage

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| <ul style="list-style-type: none"> · Handling: · Precautions for safe handling · Information about fire - and explosion protection: · Conditions for safe storage, including any incompatibilities · Storage: · Requirements to be met by storerooms and receptacles: · Information about storage in one common storage facility: · Further information about storage conditions: | <p>Open and handle receptacle with care.</p> <p>Keep ignition sources away - Do not smoke.
Protect against electrostatic charges.
Pressurised container: protect from sunlight and do not expose to temperatures exceeding 50°C, i.e. electric lights. Do not pierce or burn, even after use.
Do not spray onto a naked flame or any incandescent material.</p> <p>Store in a cool location.
Observe official regulations on storing packagings with pressurised containers.</p> <p>Store away from foodstuffs.</p> <p>Protect from heat and direct sunlight.
Keep container tightly sealed.</p> |
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Store in cool, dry conditions in well sealed receptacles.
Protect from heat and direct sunlight.
No further relevant information available.

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Specific end use(s)**8 Exposure controls and personal protection****Additional information about design of technical facilities:**

No further data; see item 7.

Control parameters

Ingredients with limit values that require monitoring at the workplace:

EINECS: 265-151-9 Naphta (petroleum), hydrotreated light
OES 600 mg/m³, 170ml/m³

106-97-8 butane (containing ≤ 0,1 % butadiene (106-99-0))WES (Australia) | Long-term value: 1900 mg/m³, 800 ppm**74-98-6 propane**

WES (Australia) | Asphyxiant

110-54-3 n-hexaneWES (Australia) | Long-term value: 72 mg/m³, 20 ppm**DNELs****Hydrocarbons, C7, n-Alkanes, Cyclics**

Oral	DNEL Long-term - systemic effects	149 mg/kg bw/day (general (Allgemeinbevölkerung))
Dermal	DNEL Long-term - systemic effects	149 mg/kg bw/day (general (Allgemeinbevölkerung))
		300 mg/kg bw/day (worker (Arbeitnehmer))
Inhalative	DNEL Long-term - systemic effects	477 mg/m ³ (general (Allgemeinbevölkerung))
		2,085 mg/m ³ (worker (Arbeitnehmer))

Hydrocarbons, C6, Isoalkanes, <5% n-Hexane

Oral	DNEL Long-term - systemic effects	1,301 mg/kg bw/day (general (Allgemeinbevölkerung))
Dermal	DNEL Long-term - systemic effects	1,377 mg/kg bw/day (general (Allgemeinbevölkerung))
		13,964 mg/kg bw/day (worker (Arbeitnehmer))
Inhalative	DNEL Long-term - systemic effects	1,137 mg/m ³ (general (Allgemeinbevölkerung))
		5,306 mg/m ³ (worker (Arbeitnehmer))

64742-49-0 Naphta (Petroleum) hydrotreated light

Oral	DNEL Long-term - systemic effects	699 mg/kg bw/day (general (Allgemeinbevölkerung))
Dermal	DNEL Long-term - systemic effects	699 mg/kg bw/day (general (Allgemeinbevölkerung))
		773 mg/kg bw/day (worker (Arbeitnehmer))
Inhalative	DNEL Long-term - systemic effects	608 mg/m ³ (general (Allgemeinbevölkerung))
		2,035 mg/m ³ (worker (Arbeitnehmer))

Naphta (Petroleum) hydrotreated light

Oral	DNEL Long-term - systemic effects	1,301 mg/kg bw/day (general (Allgemeinbevölkerung))
Dermal	DNEL Long-term - systemic effects	1,377 mg/kg bw/day (general (Allgemeinbevölkerung))
		13,964 mg/kg bw/day (worker (Arbeitnehmer))
Inhalative	DNEL Long-term - systemic effects	1,131 mg/m ³ (general (Allgemeinbevölkerung))
		5,306 mg/m ³ (worker (Arbeitnehmer))

Additional information:

The lists valid during the making were used as basis.

Exposure controls

Personal protective equipment:
General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.
Immediately remove all soiled and contaminated clothing
Wash hands before breaks and at the end of work.
Do not inhale gases / fumes / aerosols.
Avoid contact with the skin.
Avoid contact with the eyes and skin.

Respiratory protection:

Not required.

Protection of hands:

Solvent resistant gloves
Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Due to missing tests no recommendation to the glove material can be given for the product/ the preparation/ the chemical mixture.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material: ≥ 0.7 mm

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the

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- Penetration time of glove material application.
Value for the permeation: Level \leq 0,7 mm 480min (8h) EN374
The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.
The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- Eye protection: Tightly sealed goggles

9 Physical and Chemical Properties

· Information on basic physical and chemical properties

- General Information
- Appearance:
 - Form: Aerosol
 - Colour: Colourless
- Odour: Characteristic
- Odour threshold: Not determined.
- pH-value: Not determined.
- Change in condition
 - Initial boiling point and boiling range: -44 °C
- Flash point: -97 °C
- Flammability (solid, gas): Not applicable.
- Ignition temperature: 260 °C
- Decomposition temperature: Not determined.
- Auto-ignition temperature: Product is not selfigniting.
- Explosive properties: Product is not explosive. However, formation of explosive air/vapour mixtures are possible.
- Explosion limits:
 - Lower: 1 Vol %
 - Upper: 10,9 Vol %
- Vapour pressure at 20 °C: ~400 hPa
- Density at 20 °C: 0,695 g/cm³
- Relative density: Not determined.
- Vapour density: Not determined.
- Evaporation rate: Not applicable.
- Solubility in / Miscibility with water: Not miscible or difficult to mix.
- Partition coefficient: n-octanol/water: Not determined.
- Viscosity:
 - Dynamic: Not determined.
- Solvent content:
 - Organic solvents: 45,6 %
- **Other information**: No further relevant information available.

10 Stability and Reactivity

- **Reactivity**: No further relevant information available.
- Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- **Possibility of hazardous reactions**: No dangerous reactions known.
- **Conditions to avoid**: No further relevant information available.
- **Incompatible materials**: No further relevant information available.
- **Hazardous decomposition products**: Hazardous thermal decomposition products may include: Formaldehyde, Carbon dioxide, Carbon monoxide, Methanol

11 Toxicological Information

- **Information on toxicological effects**
- Acute toxicity

· LD/LC50 values relevant for classification:

106-97-8 butane (containing \leq 0,1 % butadiene (106-99-0))

Inhalative	LC50/4h	658 mg/l (rat)
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74-98-6 propane

Inhalative	LC50/4h	>20 mg/l (rat)
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Hydrocarbons, C7, n-Alkanes, Cyclics

Oral	LD50	>5,840 mg/kg (rat)
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Dermal	LD50	>2,920 mg/kg (rat)
Inhalative	LC50/4h	>23.3 mg/l (rat)
Hydrocarbons, C6, Isoalkanes, <5% n-Hexane		
Oral	LD50	16,750 mg/kg (rat)
Dermal	LD50	3,350 mg/kg (rabbit)
Inhalative	LC50/4h	259 mg/l (rat)
64742-49-0 Naphta (Petroleum) hydrotreated light		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4h	>20 mg/l (rat)
Naphta (Petroleum) hydrotreated light		
Oral	LD50	>5,000 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4h	>20 mg/l (rat)
110-54-3 n-hexane		
Oral	LD50	5,000 mg/kg (mouse)
Dermal	LD50	>2,000 mg/kg (rabbit)
Inhalative	LC50/4h	172 mg/l (rat)

- Primary irritant effect: Irritant to skin and mucous membranes.
- Skin corrosion/irritation Irritating effect.
- Serious eye damage/irritation No sensitising effects known.
- Respiratory or skin sensitisation The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
- Additional toxicological information: Irritant

12 Ecological Information

· Toxicity

- Aquatic toxicity:

Hydrocarbons, C7, n-Alkanes, Cyclics

LL50 (96h)	13.4 mg/l (Oncorhynchus mykiss)
EL50 (48h)	3 mg/l (daphnia magna/gr. Wasserfloh)
ErL50 (72h)	10-30 mg/l (Pseudokirchnerella subcapitata - Algen)
NOELR (72h)	10 mg/l (Pseudokirchnerella subcapitata - Algen)

Hydrocarbons, C6, Isoalkanes, <5% n-Hexane

EC50 (48h)	31.9 mg/l (daphnia magna/gr. Wasserfloh)
EC50 (96h)	18.27 mg/l (Oncorhynchus mykiss)
LC50 (48h)	3.87 mg/l (daphnia magna/gr. Wasserfloh)
	>1 mg/l (Oryzias latipes)
ErL50 (72h)	55 mg/l (Pseudokirchnerella subcapitata - Algen)
NOELR (72h)	30 mg/l (Pseudokirchnerella subcapitata - Algen)

64742-49-0 Naphta (Petroleum) hydrotreated light

EC50 (72h)	30 mg/l (Pseudokirchnerella subcapitata - Algen)
LL50 (96h)	11.4 mg/l (Oncorhynchus mykiss)
EL50 (48h)	3 mg/l (daphnia magna/gr. Wasserfloh)

Naphta (Petroleum) hydrotreated light

EL50 (48h)	3 mg/l (daphnia magna/gr. Wasserfloh)
ErL50 (72h)	55 mg/l (Pseudokirchnerella subcapitata - Algen)
NOELR (72h)	30 mg/l (Pseudokirchnerella subcapitata - Algen)

110-54-3 n-hexane

EC50 (48h)	2.1 mg/l (daphnia magna/gr. Wasserfloh)
LC50 (24h)	4 mg/l (Carassius auratus)

· Persistence and degradability

Hydrocarbons, C6, Isoalkanes, <5% n-Hexane

Biodegradability 28d 98 % (---)

110-54-3 n-hexane

Biodegradability % (---)

· Behaviour in environmental systems:

- Bioaccumulative potential

Hydrocarbons, C6, Isoalkanes, <5% n-Hexane

Log Pow >3 (---)

110-54-3 n-hexane

BCF 242-253 (---)

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<ul style="list-style-type: none"> · Mobility in soil · Ecotoxicological effects: · Remark: · Additional ecological information: · General notes: · Results of PBT and vPvB assessment · PBT: · vPvB: · Other adverse effects 	<p style="text-align: right;">(Contd. of page 5)</p> <p>No further relevant information available.</p> <p>Harmful to fish</p> <p>Harmful to aquatic organisms Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.</p> <p>Not applicable.</p> <p>Not applicable.</p> <p>No further relevant information available.</p>
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13 Disposal considerations

<ul style="list-style-type: none"> · Waste treatment methods · Recommendation · Uncleaned packaging: · Recommendation: 	<p>Must not be disposed together with household garbage. Do not allow product to reach sewage system.</p> <p>Disposal must be made according to official regulations.</p>
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14 Transport information

<ul style="list-style-type: none"> · UN-Number · ADG, IMDG, IATA · UN proper shipping name · ADG · IMDG · IATA · Transport hazard class(es) · ADG 	<p>UN1950</p> <p>1950 AEROSOLS AEROSOLS (MOTOR SPIRIT, Hydrocarbons, C6, Isoalkanes, <5% n-Hexane), MARINE POLLUTANT AEROSOLS, flammable</p>
	<p>· Class 2 5F Gases.</p> <p>· Label 2.1</p>
 	<p>· Class 2.1</p> <p>· Label 2.1</p>
	<p>· Class 2.1</p> <p>· Label 2.1</p>
<ul style="list-style-type: none"> · Packing group · ADG, IMDG, IATA · Environmental hazards: · Marine pollutant: · Special precautions for user · Danger code (Kemler): · EMS Number: · Stowage Code · Segregation Code 	<p>Void</p> <p>Product contains environmentally hazardous substances: cyclohexane No Symbol (fish and tree) Warning: Gases.</p> <p>-</p> <p>F-D,S-U SW1 Protected from sources of heat. SW22 For AEROSOLS with a maximum capacity of 1 litre: Category A. For AEROSOLS with a capacity above 1 litre: Category B. For WASTE AEROSOLS: Category C, Clear of living quarters. SG69 For AEROSOLS with a maximum capacity of 1 litre: Segregation as for class 9. Stow "separated from" class 1 except for division 1.4. For AEROSOLS with a capacity above 1 litre: Segregation as for the appropriate subdivision of class 2. For WASTE AEROSOLS: Segregation as for the appropriate subdivision of class 2.</p>

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· **Transport in bulk according to Annex II of Marpol and the IBC Code** Not applicable.

· **Transport/Additional information:**

· ADG
 · Limited quantities (LQ) 1L
 · Excepted quantities (EQ) Code: E0
 Not permitted as Excepted Quantity

· Transport category 2
 · Tunnel restriction code D

· IMDG
 · Limited quantities (LQ) 1L
 · Excepted quantities (EQ) Code: E0
 Not permitted as Excepted Quantity

· **UN "Model Regulation":** UN 1950 AEROSOLS, 2.1

15 Regulatory information

· **Safety, health and environmental regulations/legislation specific for the substance or mixture**

· Australian Inventory of Chemical Substances

106-97-8	butane (containing ≤ 0,1 % butadiene (106-99-0))
74-98-6	propane
75-28-5	isobutane (containing ≤ 0,1 % butadiene (106-99-0))
	1-Buten
	2,6-Di-tert-butyl-p-kresol
74-84-0	ethane
2216-51-5	(1R,2S,5R)-2-Isopropyl-5-methylcyclohexan-1-ol
	2-Buten
14073-97-3	L-menthan-3-one
2623-23-6	l-(-)-Menthyl acetate
89-82-7	Pulegone
115-07-1	propene
7732-18-5	Wasser (water, Aqua)

· Standard for the Uniform Scheduling of Medicines and Poisons

None of the ingredients is listed.

· GHS label elements

The product is classified and labelled according to the Globally Harmonised System (GHS).

· Hazard pictograms



GHS02 GHS07 GHS08

· Signal word

Danger

· Hazard statements

Extremely flammable aerosol.
 May cause drowsiness or dizziness.
 May be fatal if swallowed and enters airways.
 Keep away from heat/sparks/open flames/hot surfaces. No smoking.
 Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.
 Avoid breathing dust/fume/gas/mist/vapours/spray.
 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 Do NOT induce vomiting.
 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
 Dispose of contents/container in accordance with local/regional/national/international regulations.

· Precautionary statements

· Directive 2012/18/EU

· Named dangerous substances - ANNEX I

None of the ingredients is listed.

· Seveso category

P3a FLAMMABLE AEROSOLS

· Qualifying quantity (tonnes) for the application of lower-tier requirements

150 t

· Qualifying quantity (tonnes) for the application of upper-tier requirements

500 t

· **Chemical safety assessment:**

A Chemical Safety Assessment has not been carried out.

16 Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

· **Department issuing SDS:**

Environment protection department.

· Abbreviations and acronyms:

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

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IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service (division of the American Chemical Society)
DNEL: Derived No-Effect Level (REACH)
LC50: Lethal concentration, 50 percent
LD50: Lethal dose, 50 percent
PBT: Persistent, Bioaccumulative and Toxic
vPvB: very Persistent and very Bioaccumulative
Flam. Gas 1: Flammable gases – Category 1
Aerosol 1: Aerosols – Category 1
Press. Gas C: Gases under pressure – Compressed gas
Flam. Liq. 2: Flammable liquids – Category 2
Skin Irrit. 2: Skin corrosion/irritation – Category 2
Repr. 2: Reproductive toxicity – Category 2
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
Asp. Tox. 1: Aspiration hazard – Category 1

. * Data compared to the previous version altered.

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