

Safety Data Sheet

acc. to OSHA HCS

Printing date 03/31/2019

Version Number 2

Reviewed on 03/31/2019

1 Identification

- **Product identifier**
- **Trade name:** Semi-Volatiles Standard no. 2 (1X1 mL)
- **Part number:** SVM-121-1
- **Application of the substance / the mixture** Reagents and Standards for Analytical Chemical Laboratory Use
- **Details of the supplier of the safety data sheet**
- **Manufacturer/Supplier:**
 Agilent Technologies, Inc.
 5301 Stevens Creek Blvd.
 Santa Clara, CA 95051 USA
- **Information department:**
 Telephone: 800-227-9770
 e-mail: pdl-msds_author@agilent.com
- **Emergency telephone number:** CHEMTREC®: 1-800-424-9300

2 Hazard(s) identification

- **Classification of the substance or mixture**



GHS08 Health hazard

- Carc. 1A H350 May cause cancer.
- Repr. 1B H360 May damage fertility or the unborn child.
- STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.



GHS07

- Acute Tox. 4 H302 Harmful if swallowed.
- Skin Irrit. 2 H315 Causes skin irritation.
- Eye Irrit. 2A H319 Causes serious eye irritation.
- Skin Sens. 1 H317 May cause an allergic skin reaction.
- STOT SE 3 H335 May cause respiratory irritation.

- **Label elements**
- **GHS label elements** The product is classified and labeled according to the Globally Harmonized System (GHS).
- **Hazard pictograms**



GHS07 GHS08

- **Signal word** Danger
- **Hazard-determining components of labeling:**
 dichloromethane
 4-dimethylaminoazobenzene
 BBP
 3,3'-dichlorobenzidine

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· Hazard statements

- Harmful if swallowed.
- Causes skin irritation.
- Causes serious eye irritation.
- May cause an allergic skin reaction.
- May cause cancer.
- May damage fertility or the unborn child.
- May cause respiratory irritation.
- May cause damage to organs through prolonged or repeated exposure.

· Precautionary statements

- Obtain special instructions before use.
- Do not handle until all safety precautions have been read and understood.
- Do not breathe dust/fume/gas/mist/vapors/spray.
- Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Use only outdoors or in a well-ventilated area.
- Contaminated work clothing must not be allowed out of the workplace.
- Wear protective gloves/protective clothing/eye protection/face protection.
- If swallowed: Call a poison center/doctor if you feel unwell.
- Rinse mouth.
- If on skin: Wash with plenty of water.
- IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- IF exposed or concerned: Get medical advice/attention.
- Specific treatment (see on this label).
- Get medical advice/attention if you feel unwell.
- Take off contaminated clothing and wash it before reuse.
- If skin irritation or rash occurs: Get medical advice/attention.
- If eye irritation persists: Get medical advice/attention.
- Wash contaminated clothing before reuse.
- Store in a well-ventilated place. Keep container tightly closed.
- Store locked up.
- Dispose of contents/container in accordance with local/regional/national/international regulations.

· Classification system:
· NFPA ratings (scale 0 - 4)

· HMIS-ratings (scale 0 - 4)

· Other hazards
· Results of PBT and vPvB assessment

- **PBT:** Not applicable.
- **vPvB:** Not applicable.

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3 Composition/information on ingredients

- **Chemical characterization: Mixtures**
- **Description:** Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

75-09-2	dichloromethane	98.794%
60-11-7	4-dimethylaminoazobenzene	0.151%
91-94-1	3,3'-dichlorobenzidine	0.151%
129-00-0	pyrene	0.151%
218-01-9	chrysene	0.151%
56-55-3	benz[a]anthracene	0.151%
117-81-7	di-(2-ethylhexyl) phthalate	0.151%
85-68-7	BBP	0.151%
92-87-5	benzidine	0.151%

4 First-aid measures

- **Description of first aid measures**
- **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- **After eye contact:**
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:** Immediately call a doctor.
- **Information for doctor:**
- **Most important symptoms and effects, both acute and delayed** No further relevant information available.
- **Indication of any immediate medical attention and special treatment needed**
No further relevant information available.

* 5 Fire-fighting measures

- **Extinguishing media**
- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.
- **Special hazards arising from the substance or mixture**
During heating or in case of fire poisonous gases are produced.
- **Advice for firefighters**
- **Protective equipment:** Mouth respiratory protective device.

* 6 Accidental release measures

- **Personal precautions, protective equipment and emergency procedures** Mount respiratory protective device.

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- **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- **Methods and material for containment and cleaning up:**
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).
Dispose contaminated material as waste according to item 13.
Ensure adequate ventilation.
- **Reference to other sections**
See Section 7 for information on safe handling.
See Section 8 for information on personal protection equipment.
See Section 13 for disposal information.

- **Protective Action Criteria for Chemicals**

- **PAC-1:**

75-09-2	dichloromethane	200 ppm
60-11-7	4-dimethylaminoazobenzene	0.6 mg/m ³
91-94-1	3,3'-dichlorobenzidine	2.1 ppm
129-00-0	pyrene	0.15 mg/m ³
218-01-9	chrysene	0.6 mg/m ³
56-55-3	benz[a]anthracene	0.6 mg/m ³
117-81-7	di-(2-ethylhexyl) phthalate	10 mg/m ³
85-68-7	BBP	15 mg/m ³
92-87-5	benzidine	0.93 mg/m ³

- **PAC-2:**

75-09-2	dichloromethane	560 ppm
60-11-7	4-dimethylaminoazobenzene	6.6 mg/m ³
91-94-1	3,3'-dichlorobenzidine	23 ppm
129-00-0	pyrene	1.7 mg/m ³
218-01-9	chrysene	12 mg/m ³
56-55-3	benz[a]anthracene	120 mg/m ³
117-81-7	di-(2-ethylhexyl) phthalate	1,000 mg/m ³
85-68-7	BBP	77 mg/m ³
92-87-5	benzidine	10 mg/m ³

- **PAC-3:**

75-09-2	dichloromethane	6,900 ppm
60-11-7	4-dimethylaminoazobenzene	40 mg/m ³
91-94-1	3,3'-dichlorobenzidine	140 ppm
129-00-0	pyrene	110 mg/m ³
218-01-9	chrysene	69 mg/m ³
56-55-3	benz[a]anthracene	700 mg/m ³
117-81-7	di-(2-ethylhexyl) phthalate	6,100 mg/m ³
85-68-7	BBP	460 mg/m ³
92-87-5	benzidine	61 mg/m ³

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7 Handling and storage

- **Handling:**
- **Precautions for safe handling**
Ensure good ventilation/exhaustion at the workplace.
Open and handle receptacle with care.
Prevent formation of aerosols.
- **Information about protection against explosions and fires:** Keep respiratory protective device available.
- **Conditions for safe storage, including any incompatibilities**
- **Storage:**
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- **Information about storage in one common storage facility:** Not required.
- **Further information about storage conditions:** Keep receptacle tightly sealed.
- **Specific end use(s)** No further relevant information available.

* 8 Exposure controls/personal protection

- **Additional information about design of technical systems:** No further data; see item 7.
- **Control parameters**

· **Components with limit values that require monitoring at the workplace:**

75-09-2 dichloromethane

PEL	Short-term value: 125 ppm Long-term value: 25 ppm see 29 CFR 1910.1052
REL	See Pocket Guide App. A
TLV	Long-term value: 174 mg/m ³ , 50 ppm BEI

60-11-7 4-dimethylaminoazobenzene

PEL	see 29 CFR 1910.1003
REL	See Pocket Guide App. A

91-94-1 3,3'-dichlorobenzidine

PEL	see 29 CFR 1910.1003
REL	and its salts; See Pocket Guide App.A
TLV	Skin; L

218-01-9 chrysene

PEL	Long-term value: 0.2 mg/m ³ see Coal Tar Pitch Volatiles
REL	Long-term value: 0.1* mg/m ³ *Cyclohexane-extrble.fraction;PocketGuide Apps.A+C
TLV	L, BEIp

56-55-3 benz[a]anthracene

TLV	L; BEIp
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117-81-7 di-(2-ethylhexyl) phthalate

PEL	Long-term value: 5 mg/m ³
REL	Short-term value: 10 mg/m ³ Long-term value: 5 mg/m ³ See Pocket Guide App. A
TLV	Long-term value: 5 mg/m ³

92-87-5 benzidine

PEL	see 29 CFR 1910.1003
REL	See Pocket Guide Apps. A and C
TLV	Skin; L

· Ingredients with biological limit values:
75-09-2 dichloromethane

BEI	0.3 mg/L
	Medium: urine
	Time: end of shift
	Parameter: Dichloromethane (semi-quantitative)

218-01-9 chrysene

BEI	-
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

56-55-3 benz[a]anthracene

BEI	-
	Medium: urine
	Time: end of shift at end of workweek
	Parameter: 1-Hydroxypyrene with hydrolysis (nonquantitative)

· **Additional information:** The lists that were valid during the creation 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.

Store protective clothing separately.

Avoid contact with the eyes and skin.

· **Breathing equipment:**

When used as intended with Agilent instruments, the use of the product under normal laboratory conditions and with standard practices does not result in significant airborne exposures and therefore respiratory protection is not needed.

Under an emergency condition where a respirator is deemed necessary, use a NIOSH or equivalent approved device/equipment with appropriate organic or acid gas cartridge.

· **Protection of hands:**

Although not recommended for constant contact with the chemicals or for clean-up, nitrile gloves 11-13 mil thickness are recommended for normal use. The breakthrough time is 1 hr. For cleaning a spill where there is direct contact of the chemical, butyl rubber gloves are recommended 12-15 mil thickness with breakthrough times exceeding 4 hrs. Supplier recommendations should be followed.

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- **Material of gloves**

- For normal use: nitrile rubber, 11-13 mil thickness

- For direct contact with the chemical: butyl rubber, 12-15 mil thickness

- **Penetration time of glove material**

- For normal use: nitrile rubber: 1 hour

- For direct contact with the chemical: butyl rubber: >4 hours

- **Eye protection:**

- Safety glasses



Tightly sealed goggles

9 Physical and chemical properties

- **Information on basic physical and chemical properties**

- **General Information**

- **Appearance:**

- Form:** Fluid

- Color:** Colorless

- **Odor:** Like chlorine

- **Odor threshold:** Not determined.

- **pH-value:** Not determined.

- **Change in condition**

- Melting point/Melting range:** -95.1 °C (-139.2 °F)

- Boiling point/Boiling range:** 40 °C (104 °F)

- **Flash point:** Not applicable.

- **Flammability (solid, gaseous):** Not applicable.

- **Ignition temperature:** 605 °C (1,121 °F)

- **Decomposition temperature:** Not determined.

- **Auto igniting:** Product is not selfigniting.

- **Danger of explosion:** Product does not present an explosion hazard.

- **Explosion limits:**

- Lower:** 13 Vol %

- Upper:** 22 Vol %

- **Vapor pressure at 20 °C (68 °F):** 360 hPa (270 mm Hg)

- **Density at 20 °C (68 °F):** 1.3 g/cm³ (10.8485 lbs/gal)

- **Relative density** Not determined.

- **Vapor density** Not determined.

- **Evaporation rate** Not determined.

- **Solubility in / Miscibility with**

- Water at 20 °C (68 °F):** 20 g/l

- **Partition coefficient (n-octanol/water):** Not determined.

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· Viscosity:	
Dynamic:	Not determined.
Kinematic:	Not determined.
· Solvent content:	
Organic solvents:	98.8 %
VOC content:	0.00 %
	0.0 g/l / 0.00 lb/gal
Solids content:	1.1 %
· 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:** No dangerous decomposition products known.

11 Toxicological information

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

LD/LC50 values that are relevant for classification:
ATE (Acute Toxicity Estimate)

Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	>2,004 mg/kg
Inhalative	LC50/4 h	>83.7 mg/L

75-09-2 dichloromethane

Oral	LD50	1,600 mg/kg (rat)
Dermal	LD50	>2,000 mg/kg (rat)
Inhalative	LC50/4 h	88 mg/L (rat)

60-11-7 4-dimethylaminoazobenzene

Oral	LD50	200 mg/kg (rat)
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91-94-1 3,3'-dichlorobenzidine

Oral	LD50	4,740 mg/kg (rat)
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129-00-0 pyrene

Oral	LD50	2,700 mg/kg (rat)
Inhalative	LC50/4 h	170 mg/L (rat)

117-81-7 di-(2-ethylhexyl) phthalate

Oral	LD50	>20,000 mg/kg (rat)
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Dermal	LD50	4,000 mg/kg (rat) 25,000 mg/kg (rabbit)
85-68-7 BBP		
Oral	LD50	2,330 mg/kg (rat)
Dermal	LD50	6,700 mg/kg (rabbit)
Inhalative	LC50/4 h	>6.7 mg/L (rat)
92-87-5 benzidine		
Oral	LD50	309 mg/kg (rat)

- **Primary irritant effect:**

- **on the skin:** Irritant to skin and mucous membranes.

- **on the eye:** Irritating effect.

- **Sensitization:** Sensitization possible through skin contact.

- **Additional toxicological information:**

The product shows the following dangers according to internally approved calculation methods for preparations:

Harmful

Irritant

- **Carcinogenic categories**

- **IARC (International Agency for Research on Cancer)**

75-09-2	dichloromethane	2A
60-11-7	4-dimethylaminoazobenzene	2B
91-94-1	3,3'-dichlorobenzidine	2B
129-00-0	pyrene	3
218-01-9	chrysene	2B
56-55-3	benz[a]anthracene	2B
117-81-7	di-(2-ethylhexyl) phthalate	2B
85-68-7	BBP	3
92-87-5	benzidine	1

- **NTP (National Toxicology Program)**

75-09-2	dichloromethane	R
60-11-7	4-dimethylaminoazobenzene	R
91-94-1	3,3'-dichlorobenzidine	R
129-00-0	pyrene	R
218-01-9	chrysene	R
56-55-3	benz[a]anthracene	R
117-81-7	di-(2-ethylhexyl) phthalate	R
92-87-5	benzidine	K

- **OSHA-Ca (Occupational Safety & Health Administration)**

75-09-2	dichloromethane
60-11-7	4-dimethylaminoazobenzene
91-94-1	3,3'-dichlorobenzidine
92-87-5	benzidine

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12 Ecological information

- **Toxicity**
- **Aquatic toxicity:** No further relevant information available.
- **Persistence and degradability** No further relevant information available.
- **Behavior in environmental systems:**
- **Bioaccumulative potential** No further relevant information available.
- **Mobility in soil** No further relevant information available.
- **Additional ecological information:**
- **General notes:**
 Water hazard class 3 (Self-assessment): extremely hazardous for water
 Do not allow product to reach ground water, water course or sewage system, even in small quantities.
 Danger to drinking water if even extremely small quantities leak into the ground.
- **Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **Other adverse effects** No further relevant information available.

13 Disposal considerations

- **Waste treatment methods**
- **Recommendation:**
 Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.

14 Transport information

- | | |
|---|-----------------------------------|
| · Not Regulated, De minimus Quantities | - |
| · UN-Number | |
| · DOT, IMDG, IATA | UN1593 |
| · UN proper shipping name | |
| · DOT | Dichloromethane |
| · IMDG | DICHLOROMETHANE, MARINE POLLUTANT |
| · IATA | DICHLOROMETHANE |
| · Transport hazard class(es) | |
| · DOT, IATA | |
|  | |
| · Class | 6.1 Toxic substances |

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· Label	6.1
· IMDG	
	
· Class	6.1 Toxic substances
· Label	6.1
· Packing group	
· DOT, IMDG, IATA	III
· Environmental hazards:	Product contains environmentally hazardous substances: benzidine, benz[a]anthracene
· Marine pollutant:	Symbol (fish and tree)
· Special precautions for user	Warning: Toxic substances
· Danger code (Kemler):	60
· EMS Number:	F-A,S-A
· Segregation groups	Liquid halogenated hydrocarbons
· Stowage Category	A
· Transport in bulk according to Annex II of MARPOL/73/78 and the IBC Code	Not applicable.
· Transport/Additional information:	
· DOT	
· Quantity limitations	On passenger aircraft/rail: 60 L On cargo aircraft only: 220 L
· Hazardous substance:	1000 lbs, 454 kg
· IMDG	
· Limited quantities (LQ)	5L
· Excepted quantities (EQ)	Code: E1 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 1000 ml
· UN "Model Regulation":	UN 1593 DICHLOROMETHANE, 6.1, III, ENVIRONMENTALLY HAZARDOUS

15 Regulatory information

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- Sara

· Section 355 (extremely hazardous substances):	
129-00-0	pyrene
· Section 313 (Specific toxic chemical listings):	
75-09-2	dichloromethane
60-11-7	4-dimethylaminoazobenzene
91-94-1	3,3'-dichlorobenzidine

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218-01-9	chrysene
56-55-3	benz[a]anthracene
117-81-7	di-(2-ethylhexyl) phthalate
92-87-5	benzidine

· TSCA (Toxic Substances Control Act):

All ingredients are listed.

· TSCA new (21st Century Act): (Substances not listed)

60-11-7	4-dimethylaminoazobenzene
91-94-1	3,3'-dichlorobenzidine
218-01-9	chrysene
56-55-3	benz[a]anthracene
92-87-5	benzidine

· Proposition 65
· Chemicals known to cause cancer:

75-09-2	dichloromethane
60-11-7	4-dimethylaminoazobenzene
91-94-1	3,3'-dichlorobenzidine
218-01-9	chrysene
56-55-3	benz[a]anthracene
117-81-7	di-(2-ethylhexyl) phthalate
92-87-5	benzidine

· Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

· Chemicals known to cause reproductive toxicity for males:

117-81-7	di-(2-ethylhexyl) phthalate
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· Chemicals known to cause developmental toxicity:

117-81-7	di-(2-ethylhexyl) phthalate
85-68-7	BBP

· Carcinogenic categories
· EPA (Environmental Protection Agency)

75-09-2	dichloromethane	L
91-94-1	3,3'-dichlorobenzidine	B2
129-00-0	pyrene	D
218-01-9	chrysene	B2
56-55-3	benz[a]anthracene	B2
117-81-7	di-(2-ethylhexyl) phthalate	B2
85-68-7	BBP	C
92-87-5	benzidine	A

· TLV (Threshold Limit Value established by ACGIH)

75-09-2	dichloromethane	A3
91-94-1	3,3'-dichlorobenzidine	A3

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218-01-9	chrysene	A3
56-55-3	benz[a]anthracene	A2
117-81-7	di-(2-ethylhexyl) phthalate	A3
92-87-5	benzidine	A1

· NIOSH-Ca (National Institute for Occupational Safety and Health)

75-09-2	dichloromethane
60-11-7	4-dimethylaminoazobenzene
91-94-1	3,3'-dichlorobenzidine
218-01-9	chrysene
117-81-7	di-(2-ethylhexyl) phthalate
92-87-5	benzidine

· National regulations:
· Additional classification according to Decree on Hazardous Materials:

Carcinogenic hazardous material group III (dangerous).

· Information about limitation of use:

Workers are not allowed to be exposed to the hazardous carcinogenic materials contained in this preparation.

Exceptions can be made by the authorities in certain cases.

· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

16 Other information

The information contained in this document is based on Agilent's state of knowledge at the time of preparation. No warranty as to its accurateness, completeness or suitability for a particular purpose is expressed or implied.

· Department issuing SDS: Document Control / Regulatory

· Contact: regulatory@ultrasci.com

· Date of preparation / last revision 03/31/2019 / 1

· 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)

IMDG: International Maritime Code for Dangerous Goods

DOT: US Department of Transportation

IATA: International Air Transport Association

ACGIH: American Conference of Governmental Industrial Hygienists

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)

NFPA: National Fire Protection Association (USA)

HMIS: Hazardous Materials Identification System (USA)

VOC: Volatile Organic Compounds (USA, EU)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

NIOSH: National Institute for Occupational Safety

OSHA: Occupational Safety & Health

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

REL: Recommended Exposure Limit

BEI: Biological Exposure Limit

Acute Tox. 4: Acute toxicity – Category 4

Skin Irrit. 2: Skin corrosion/irritation – Category 2

Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A

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Skin Sens. 1: Skin sensitisation – Category 1
Carc. 1A: Carcinogenicity – Category 1A
Repr. 1B: Reproductive toxicity – Category 1B
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3
STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2
· * **Data compared to the previous version altered.**

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