ELECTRICALLY CONDUCTIVE SILVER PLATED COPPER COATING 3800

1 IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product Detail : 3801C Electrically conductive silver plated copper coating Aerosol
Application of the substance / the preparation: Surface Coating. For industrial and professional use only.
Manufacturer / supplier:

Holland Shielding Systems B.V.
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In an emergency, please contact your local/national poison control center (accessible only to medical personnel).

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008		
Aerosol 1	H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
Skin Irrit. 2	H315	Causes skin irritation.
Eye Dam. 1	H318	Causes serious eye damage.
Repr. 2	H361d	Suspected of damaging the unborn child.

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.	
Hazard pictograms	 GHS02 GHS05 GHS08
Signal Word:	Danger

Hazard-determining components of labelling
Isobutanol
Toluene

Hazard Statements	
H222-H229	Extremely flammable aerosol. Pressurised container: May burst if heated.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H361d	Suspected of damaging the unborn child.

Precautionary Statements	
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/doctor.
P321	Specific treatment (see on this label).
P362+P364	Take off contaminated clothing and wash it before reuse.
P405	Store locked up.
P410+P412	Protect from sunlight. Do not expose to temperatures exceeding 50 °C/122 °F.
P501	Dispose of contents/container in accordance with local/regional/national/international regulations.

Additional Information

Revision date: 16-01-2024

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Product contains:	Reportable explosives precursors. Making available, introduction, possession and use according to Regulation (EU) 2019/1148, Article 9. Buildup of explosive mixtures possible without sufficient ventilation.

2.3 Other Hazards

Results of PBT and vPvB assessment	
PBT:	CAS No. 108-88-3 Toluene
vPvB:	CAS No. 108-88-3 Toluene

3 COMPOSITION/INFORMATION ON INGREDIENTS

Description: Mixture of substances listed below with nonhazardous additions.

Dangerous Components:

CAS No: 115-10-6 EINECS: 204-065-8 Reg.nr.: 01-2119472128-37	dimethyl ether		
		Flam. Gas 1A, H220 Press Gas (Comp.), H280	>50-≤100%
CAS No: 141-78-6 EINECS: 205-500-4 Reg.nr.: 01-2119475103-46-XXXX	Ethyl Acetate		
		Flam. Liq. 2, H225;	>2.5-≤10%
		Eye Irrit. 2, H319 STOT SE 3, H336	
CAS No: 1330-20-7 EINECS: 215-535-7 Reg.nr.: 01-2119488216-32-xxxx	Xylene (mix)		
		Flam. Liq. 3, H226	>2.5-≤10%
		Acute Tox. 4, H312 Acute Tox. 4 H332 Skin Irrit. 2, H315	
CAS No: 123-86-4 EINECS: 204-658-1 Reg.nr.: 01-2119485493-29-XXXX	Butyl ethanoate		
		Flam. Liq. 3, H226;	>2.5-≤10%
		STOT SE 3, H336	
CAS No: 108-88-3 EINECS: 203-625-9 Reg.nr.: 01-2119471310-51-xxxx	Toluene		
		Flam. Liq. 2, H225	>2.5-≤10%
		Repr. 2, H361d STOT RE 2, H373 Asp. Tox. 1, H304	
		Skin Irrit. 2, H315 STOT SE 3, H336 PBT; vPvB	
CAS No: 78-83-1 EINECS: 201-148-0 Reg.nr.: 01-2119484609-23-XXXX	isobutanol		
		Flam. Liq. 3, H226;	>2.5-≤10%
		Eye Dam. 1, H318;	
		Skin Irrit. 2, H315 STOT SE 3, H335-H336	
CAS No: 67-64-1 EINECS: 200-662-2 Reg.nr.: 01-2119471330-49-xxxx	propan-2-one		
		Flam. Liq. 2, H225;	>1-≤2.5%
		Eye Irrit. 2, H319 STOT SE 3, H336	

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CAS No: 108-65-6 EINECS: 203-603-9 Reg.nr.: 01-2119475791-29	2-methoxy-1-methylethyl acetate  Flam. Liq. 3, H226	>1-≤2.5%
CAS No: 100-41-4 EINECS: 202-849-4 Reg.nr.: 01-2119489370-35	ethylbenzene  Flam. Liq. 2, H225;  STOT RE 2, H373 Asp. Tox. 1, H304  Acute Tox. 4, H332	>1-≤2.5%

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

4 FIRST AID MEASURES

4.1 Description of first aid measures

General information	Immediately remove any clothing soiled by the product.
After inhalation	In case of unconsciousness place patient stably in side position for transportation. Supply fresh air; consult doctor in case of complaints.
After skin contact	Immediately wash with water and soap and rinse thoroughly. Remove contaminated clothing. Immediately rinse with water.
After eye contact	Rinse opened eye for several minutes under running water. Then consult a doctor.
After swallowing	Do not induce vomiting; call for medical help immediately and show safety datasheet or label.

4.2 Most important symptoms and effects, both acute and delayed
No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed
Treat symptomatically.

5 FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing agents	CO^2, powder or water spray. Fight larger fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture
No further relevant information available.

5.3 Advice for firefighters

Protective equipment:	Put on breathing apparatus

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures
Wear protective equipment. Keep unprotected persons away.

6.2 Environmental precautions:
Do not allow to enter sewers/ surface or ground water.

6.3 Methods and material for containment and cleaning up:
Use neutralising agent.
Dispose contaminated material as waste according to section 13.
Ensure adequate ventilation.

6.4 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.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling
Keep receptacles tightly sealed.
Open and handle receptacle with care.

Hygiene measures	Wash hands before breaks and at the end of workday.
Information about fire- and explosion protection	Do not spray onto a naked flame or any incandescent material. Keep ignition sources away- Do not smoke. Keep respiratory protective device available.
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.

7.2 Conditions for safe storage, including any incompatibilities

	Storage
Requirements to be met by storerooms and receptacles:	Observe official regulations on storing packagings with pressurised containers.
Information about storage in one common storage facility:	Not required.
Further information about storage conditions:	Keep receptacle tightly sealed and in a well-ventilated place. Keep away from heat.

7.3 Specific end use(s)
No further relevant information available.

8 EXPOSURE CONTROLS/PERSONAL PROTECTION
No further data; see section 7.
Ingredients with limit values that require monitoring at the workplace:
WELs (Workplace Exposure Limits)

CAS No. 115-10-6	dimethyl ether		
WEL	Short-term value:	958 mg/m³, 500 ppm	
	Long-term value:	766 mg/m³, 400 ppm	
CAS No. 141-78-6	Ethyl Acetate		
WEL	Short-term value:	1468 mg/m³, 400 ppm	
	Long-term value:	734 mg/m³, 200 ppm	
CAS No. 1330-20-7	Xylene (mix)		
WEL	Short-term value:	441 mg/m³, 100 ppm	Sk; BMGV
	Long-term value:	220 mg/m³, 50 ppm	
CAS No. 123-86-4	Butyl ethanoate		
WEL	Short-term value:	966 mg/m³, 200 ppm	
	Long-term value:	724 mg/m³, 150 ppm	
CAS No. 108-88-3	Toluene		
WEL	Short-term value:	384 mg/m³, 100 ppm	Sk
	Long-term value:	191 mg/m³, 50 ppm	
CAS No. 78-83-1	isobutanol		
WEL	Short-term value:	231 mg/m³, 75 ppm	
	Long-term value:	154 mg/m³, 50 ppm	
CAS No. 67-64-1	propan-2-one		
WEL	Short-term value:	3620 mg/m³, 1500 ppm	
	Long-term value:	1210 mg/m³, 500 ppm	
CAS No. 108-65-6	2-methoxy-1-methylethyl acetate		
WEL	Short-term value:	548 mg/m³, 100 ppm	Sk

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	Long-term value:	274 mg/m³, 50 ppm	
CAS No. 100-41-4	ethylbenzene		
WEL	Short-term value:	552 mg/m³, 125 ppm	Sk
	Long-term value:	441 mg/m³, 100 ppm	

DNELs

CAS No. 115-10-6	dimethyl ether	
Inhalative	DNEL	471 mg/m³ (Con)
		1,894 mg/m³ (Ind)
CAS No. 141-78-6	Ethyl Acetate	
Dermal	DNEL	37 mg/day (Con)
		63 mg/day (Ind)
Inhalative	DNEL	367 mg/m³ (Con)
		734 mg/m³ (Ind)
CAS No. 1330-20-7	Xylene (mix)	
Dermal	DNEL	108 mg/day (Con)
		180 mg/day (Ind)
Inhalative	DNEL	14.8 mg/m³ (Con)
		77 mg/m³ (Ind)
CAS No. 123-86-4	Butyl ethanoate	
Oral	DNEL	2 mg/day (Con)
Dermal	DNEL	6 mg/day (Con)
		11 mg/day (Ind)
Inhalative	DNEL	35.7 mg/m³ (Con)
		300 mg/m³ (Ind)
CAS No. 108-88-3	Toluene	
Oral	DNEL	8.13 mg/day (Con)
Dermal	DNEL	226 mg/day (Con)
		384 mg/day (Ind)
Inhalative	DNEL	56.5 mg/m³ (Con)
		192 mg/m³ (Ind)
CAS No. 78-83-1	isobutanol	
Oral	DNEL	25 mg/day (Con)
Inhalative	DNEL	55 mg/m³ (Con)
		310 mg/m³ (Ind)
CAS No. 67-64-1	Propan-2-one	
Oral	DNEL	62 mg/day (Con)
Dermal	DNEL	62 mg/day (Con)
		186 mg/day (Ind)
Inhalative	DNEL	200 mg/m³ (Con)
		1,210 mg/m³ (Ind)
CAS No. 108-65-6	2-methoxy-1-methylethyl acetate	
Oral	DNEL	1.67 mg/day (Con)
Dermal	DNEL	54.8 mg/day (Con)
		153.5 mg/day (Ind)
Inhalative	DNEL	33 mg/m³ (Con)
		275 mg/m³ (Ind)

PNECs

CAS No. 1330-20-7	Xylene mixed isomers	
Fresh water;	PNEC	0.327 mg/l
Marine water;		0.327 mg/l
Intermittent release;		0.327 mg/l
STP (sewage-treatment plant);		6.58 mg/l
Sediment (Freshwater);		12.46 mg/kg
Sediment (Marinewater);		12.46 mg/kg
Soil;		2.31 mg/kg
CAS No. 123-86-4	Butyl Acetate	
Fresh water;	PNEC	0.18 mg/l
Marine water;		0.018 mg/l
Intermittent use/release:		0.36 mg/l
STP (sewage-treatment plant);		35.6 mg/l
Sediment (Freshwater);		0.981 mg/kg
Sediment (Marinewater);		0.0981 mg/kg
Soil;		0.0903 mg/kg

Ingredients with Biological Limit Values:

CAS No. 1330-20-7	Xylene (mix)	
BMGV	650 mmol/mol	creatinine
	Medium:	urine
	Sampling time:	post shift
	Parameter:	methyl hippuric acid

Additional information

The lists valid during the making were used as basis.

8.2 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.	
Respiratory protection	Particulate cartridge filter type when LEV cannot be supplied	
Protection of hands	Protective gloves	
Eye protection	Safety glasses Tightly sealed goggles	

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9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

General Information

Appearance	
Form	Aerosol
Colour	Copper coloured
Odour	Characteristic
Odour threshold	Not determined.
pH-value	Not determined.

Change in condition	
Melting point/freezing point	Undetermined.
Initial boiling point and boiling range	-24.9 °C
Flash point	-42 °C
Flammability (solid, gas)	Not applicable.
Auto-ignition temperature	235 °C
Decomposition temperature	Not determined.
Ignition temperature	Product is not selfigniting.
Explosive properties	Not determined.
Explosion limit (Lower)	3 Vol %
Explosion limit (Upper)	18.6 Vol %
Vapour pressure at 20 °C	5,200 hPa
Density at 20 °C	0.8 g/cm³
Relative density	Not determined.
Vapour density	Not determined.
Evaporation rate	Not applicable.
Solubility in / Miscibility with water	NOT MISCIBLE
Partition coefficient: n-octanol/water	Not determined.
Viscosity (Dynamic)	Not determined.
Viscosity (Kinematic)	Not determined.

Solvent content	
Organic solvents	88.1 %
Water	0.1 %
Solids content	12.8 %

9.2 Other information

No further relevant information available.

10 STABILITY AND REACTIVITY

10.1 Reactivity

No further relevant information available.

10.2 Chemical stability

Thermal decomposition / conditions to be avoided:	No decomposition if used according to specifications.

10.3 Possibility of hazardous reactions

No dangerous reactions known.

10.4 Conditions to avoid

No further relevant information available.

10.5 Incompatible materials
No further relevant information available.

10.6 Hazardous decomposition products
No dangerous decomposition products when stored and handled correctly

11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects
Acute toxicity Based on available data, the classification criteria are not met.

LD/LC50 values relevant for classification:

CAS No. 115-10-6	dimethyl ether		
Inhalative		LC50/4 h	248.49 mg/l (rat)
CAS No. 141-78-6	Ethyl Acetate		
Oral		LD50	4,934 mg/kg (Rab)
Dermal		LD50	20,000 mg/kg (Rab)
Inhalative		LC50/4 h	1,600 mg/l (Rat)
CAS No. 1330-20-7	Xylene (mix)		
Oral		LD50	5,000 mg/kg (Rat)
Dermal		LD50	2,000 mg/kg (rbt)
Inhalative		LC50/4 h	11 mg/l (Rat)
CAS No. 123-86-4	Butyl ethanoate		
Oral		LD50	10,760 mg/kg (rat)
Dermal		LD50	14,112 mg/kg (Rab)
Inhalative		LC50/4 h	23.4 mg/l (Rat)
CAS No. 108-88-3	Toluene		
Oral		LD50	5,580 mg/kg (Rat)
Dermal		LD50	5,000 mg/kg (Rab)
Inhalative		LC50/4 h	20 mg/l (Rat)
CAS No. 78-83-1	isobutanol		
Oral		LD50	>2,000 mg/kg (Rat)
Dermal		LD50	>2,000 mg/kg (Rat)
CAS No. 67-64-1	propan-2-one		
Oral		LD50	5,800 mg/kg (Rat)
Dermal		LD50	7,400 mg/kg (Rabbit)
Inhalative		LC50/4 h	76 mg/l (Rat)
CAS No. 108-65-6	2-methoxy-1-methylethyl acetate		
Oral		LD50	>5,000 mg/kg (rat)
Dermal		LD50	5,000 mg/kg (Rat)
Inhalative		LC50/4 h	>10.8 mg/l (Rat)
CAS No. 100-41-4	ethylbenzene		
Oral		LD50	3,500 mg/kg (rat)
Dermal		LD50	17,800 mg/kg (rbt)

Primary irritant effect

Skin corrosion/irritation	Causes skin irritation.
Serious eye damage/irritation	Causes serious eye damage.
Respiratory or skin sensitisation	Based on available data, the classification criteria are not met.

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Additional toxicological information:

CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)	
Germ cell mutagenicity	Based on available data, the classification criteria are not met.
Carcinogenicity	Based on available data, the classification criteria are not met.
Reproductive toxicity	Suspected of damaging the unborn child.
STOT-single exposure	Based on available data, the classification criteria are not met.
STOT-repeated exposure	Based on available data, the classification criteria are not met.
Aspiration hazard	Based on available data, the classification criteria are not met.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity:

Acute Fish toxicity	
n-Butyl acetate	LC50 18 mg/l
Species:	Pimephales promelas (fathead minnow)
Exposure duration:	96 h
Chronic Fish toxicity	
n-Butyl acetate	No Data Available
Acute toxicity for daphnia	
n-Butyl acetate	EC50 44 mg/l
Species:	Daphnia (water flea)
Exposure duration:	48 h
Chronic toxicity for daphnia	
n-Butyl acetate	NOEC 23 mg/l
Species:	Daphnia magma (water flea)
Exposure duration:	21 d
Method:	OECD Test Guideline 211
Acute toxicity for Algae	
n-Butyl acetate	EC50 675 mg/l
Species:	Scenedesmus quadricauda (Green algae)
Exposure duration:	72 h
Acute bacterial Toxicity	
n-Butyl acetate	EC50 356 mg/l
Species:	Activated sludge
Exposure duration:	40 h

12.2 Persistence and degradability

No further relevant information available.

12.3 Bio accumulative potential

No further relevant information available.

12.4 Mobility in soil

No further relevant information available.

Additional ecological information

General notes	Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water Do not allow product to reach ground water, water course or sewage system. Must not reach sewage water or drainage ditch undiluted or un-neutralised. Danger to drinking water if even small quantities leak into the ground.

12.5 Results of PBT and vPvB assessment

PBT: CAS No. 108-88-3 Toluene

vPvB: CAS No. 108-88-3 Toluene

12.6 Other adverse effects

No further relevant information available.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Recommendation:	Must not be disposed together with household garbage. Do not allow product to reach sewage system.

Uncleaned packaging:

Recommendation:	Disposal must be made according to official regulations.

14 TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA	UN1950

14.2 UN proper shipping name

ADR	1950 Aerosols
IMDG	Aerosols
IATA	Aerosols, flammable

14.3 Transport hazard class(es)

ADR	
Class	2.5F Gases
Label	2.1
IMDG, IATA	
Class	2.1 Gases
Label	2.1

14.4 Packing group

ADR, IMDG, IATA	Void

14.5 Environmental hazards:

Marine pollutant	No

14.6 Special precautions for user

Warning:	Gases.	
Hazard identification number (Kemler code):		
EMS Number:	F-D, S-U	
Stowage Code	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.	
Segregation Code	SG69 For AEROSOLS with 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

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

Not applicable.

	Transport/Additional information:	
ADR	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

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

Poisons Act

Regulated explosives precursors	None of the ingredients is listed.		
Regulated poisons	None of the ingredients is listed.		
Reportable explosives precursors	67-64-1 propan-2-one	Listed	
Reportable poisons	None of the ingredients is listed.		
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		
National regulations:	Technical instructions (air):	CLASS	Share in %
		III	5.3
		NK	88.1
Waterhazard class:	Water hazard class 2 (Self-assessment): hazardous for water.		

15.2 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.

Full text of H-Statements referred to under sections 2 and 3

H220	Extremely flammable gas.
H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H280	Contains gas under pressure; may explode if heated.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.

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Abbreviations and acronyms

ADR:	Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road)
IMDG:	International Maritime Code for Dangerous Goods
IATA:	International Air Transport Association
GHS:	Globally Harmonised System of Classification and Labelling of Chemicals
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)
WEL:	Workplace Exposure Limit
DNEL:	Derived No-Effect Level (UK REACH)
PNEC:	Predicted No-Effect Concentration (UK REACH)
LC50:	Lethal concentration, 50 percent
LD50:	Lethal dose, 50 percent
PBT:	Persistent, Bioaccumulative and Toxic
vPvB:	very Persistent and very Bioaccumulative
Flam. Gas 1A:	Flammable gases – Category 1A
Aerosol 1:	Aerosols – Category 1
Press. Gas (Comp.):	Gases under pressure – Compressed gas
Flam. Liq. 2:	Flammable liquids – Category 2
Flam. Liq. 3:	Flammable liquids – Category 3
Acute Tox. 4:	Acute toxicity – Category 4
Skin Irrit. 2:	Skin corrosion/irritation – Category 2
Eye Dam. 1:	Serious eye damage/eye irritation – Category 1
Eye Irrit. 2:	Serious eye damage/eye 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

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