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## **1** Identification

- Product identifier
- · Trade name: MUSSON NO. 400 CONTACT CEMENT
- Details of the supplier of the safety data sheet
   Manufacturer/Supplier: THE R.C. MUSSON RUBBER COMPANY PO BOX 7038
   AKRON,OH. 44306
   1-800-321-2381
   Emergency telephone number: CHEMTREC (800) 424-9300

## 2 Hazard(s) identification

• Classification of the substance or mixture	
GHS02 Flame	
Flammable Liquids 2	H225 Highly flammable liquid and vapor.
GHS08 Health hazard	
Toxic to Reproduction 2	H361 Suspected of damaging fertility or the unborn child.
Specific Target Organ Toxicity - Repeated Exposure 2	e H373 May cause damage to organs through prolonged or repeated exposure.
Aspiration Hazard 1	H304 May be fatal if swallowed and enters airways.
GHS07 Skin Irritation 2	H315 Causes skin irritation.
Eye Irritation 2A	H319 Causes serious eye irritation.
Specific Target Organ Toxicity - Single Exposure 3	H336 May cause drowsiness or dizziness.
Label elements GHS label elements The product is classified and labeled according to th Hazard pictograms GHS02 GHS07 GHS08	e Globally Harmonized System (GHS).
· Signal word Danger	
• Hazard-determining components of labeling: n-hexane toluene acetone	

• **Hazard statements** Highly flammable liquid and vapor.

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	(Contd. of page 1)
Causes skin irritation.	
Causes serious eye irritation.	
Suspected of damaging fertility or the unborn child.	
May cause drowsiness or dizziness.	
May cause damage to organs through prolonged or repeated exposure.	
May be fatal if swallowed and enters airways.	
Precautionary statements	
Obtain special instructions before use.	
Do not handle until all safety precautions have been read and understood.	
Keep away from heat/sparks/open flames/hot surfaces No smoking.	
Ground/bond container and receiving equipment.	
Use explosion-proof electrical/ventilating/lighting/equipment.	
Use only non-sparking tools.	
Take precautionary measures against static discharge.	
Do not breathe dust/fume/gas/mist/vapors/spray.	
Wash thoroughly after handling.	
Use only outdoors or in a well-ventilated area.	
Wear protective gloves/protective clothing/eye protection/face protection.	
If swallowed: Immediately call a poison center/doctor.	
Specific treatment (see on this label).	
Do NOT induce vomiting.	
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with w	ater/shower.
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.	
Call a poison center/doctor if you feel unwell.	
Get medical advice/attention if you feel unwell.	
Take off contaminated clothing and wash it before reuse.	
If skin irritation occurs: Get medical advice/attention.	
If eye irritation persists: Get medical advice/attention.	
In case of fire: Use CO2, powder or water spray to extinguish.	
Store in a well-ventilated place. Keep container tightly closed.	
Store in a well-ventilated place. Keep cool.	
Store locked up.	l rogulations
Dispose of contents/container in accordance with local/regional/national/internationa	il regulations.
· Classification system:	
· NFPA ratings (scale 0 - 4)	
Health = 1 Fire = 0	
Reactivity = 0	
• HMIS-ratings (scale 0 - 4) Health = 2	
Health = 2 Fire = 3	
· ···· •	
Reactivity = 1 · Other hazards	
· Results of PBT and vPvB assessment	
• PBT: Not applicable.	
· <b>vPvB:</b> Not applicable.	
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## 3 Composition/information on ingredients

### · Chemical characterization: Mixtures

• Description: Mixture of the substances listed below with nonhazardous additions.

· Dangero	us components:	
110-54-3	n-hexane	41.39%
67-64-1	acetone	28.03%
108-88-3	toluene	11.37%

## 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: 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: If symptoms persist consult 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:
- CO2, extinguishing powder or water spray. Fight larger fires with water spray or alcohol resistant foam.
- · For safety reasons unsuitable extinguishing agents: Water with full jet
- **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.
   Wear protective equipment. Keep unprotected persons away.
   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 section 13. Ensure adequate ventilation.
- · Reference to other sections
- See Section 7 for information on safe handling.

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See Secti	on 8 for information on personal protection equipment. on 13 for disposal information. <b>e Action Criteria for Chemicals</b>	(Contd. of page 3
PAC-1:		
110-54-3	n-hexane	260 ppm
67-64-1	acetone	200 ppm
108-88-3	toluene	67 ppm
PAC-2:		· · · · ·
110-54-3	n-hexane	2900* ppm
67-64-1	acetone	3200* ppm
108-88-3	toluene	560 ppm
PAC-3:		
110-54-3	n-hexane	8600** ppm
67-64-1	acetone	5700* ppm
108-88-3	toluene	3700* ppm

## 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:
- Information about protection against explosions and fires
   Keep ignition sources away Do not smoke.
   Protect against electrostatic charges.
   Keep respiratory protective device available.
- · Conditions for safe storage, including any incompatibilities
- · Storage:
- Requirements to be met by storerooms and receptacles: Store in a cool location.
- · Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep receptacle tightly sealed. Store in cool, dry conditions in well sealed receptacles.
- 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 section 7.

### · Control parameters

· Com	ponents with limit values that require monitoring at the workplace:
110-{	54-3 n-hexane
PEL	Long-term value: 1800 mg/m³, 500 ppm
REL	Long-term value: 180 mg/m³, 50 ppm
TLV	Long-term value: 50 ppm Skin; BEI
	·
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67-64	4-1 acetone	(Contd. of page
	Long-term value: 2400 mg/m <sup>3</sup> , 1000 ppm	
	Long-term value: 590 mg/m <sup>3</sup> , 250 ppm	
	Short-term value: 500 ppm	
ILV	Long-term value: 250 ppm	
	A4, BEI	
108-8	38-3 toluene	
PEL	Long-term value: 200 ppm	
	Ceiling limit value: 300; 500* ppm	
	*10-min peak per 8-hr shift	
REL	Short-term value: 560 mg/m³, 150 ppm	
	Long-term value: 375 mg/m³, 100 ppm	
TLV	Long-term value: 20 ppm	
	BEI, OTO, A4	
	edients with biological limit values:	
	54-3 n-hexane	
	0.5 mg/L	
	Medium: urine Time: end of shift	
	Parameter: 2.5-Hexanedione without hydrolysis	
	4-1 acetone	
	25 mg/L	
	Medium: urine	
	Time: end of shift	
	Parameter: Acetone (nonspecific)	
	88-3 toluene	
	0.02 mg/L Madiuma klassi	
	Medium: blood Time: prior to last shift of workweek	
	Parameter: Toluene	
	0.03 mg/L	
	Medium: urine	
	Time: end of shift Parameter: Toluene	
	0.3 mg/g creatinine	
	Medium: urine	
	Time: end of shift Beremeter: a Cread with hydrolycia (hadkground)	
	Parameter: o-Cresol with hydrolysis (background)	
	tional information: The lists that were valid during the creation were used as ba	SIS.
	osure controls	
	onal protective equipment:	
	eral protective and hygienic measures: a way from foodstuffs, beverages and feed.	
	ediately remove all soiled and contaminated clothing.	
	h hands before breaks and at the end of work.	
	e protective clothing separately.	
	contact with the eyes and skin.	
		(Contd. on page

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## · Breathing equipment:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use respiratory protective device that is independent of circulating air.

## Protection of hands:



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

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 application.

### Penetration time of glove material

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

<ul> <li>Information on basic physical and</li> <li>General Information</li> </ul>	chemical properties
· Appearance:	
Form:	Fluid
Color:	According to product specification
· Odor:	Characteristic
· Odor threshold:	Not determined.
· pH-value:	Not determined.
<ul> <li>Change in condition Melting point/Melting range: Boiling point/Boiling range:</li> </ul>	Undetermined. 55.8–56.6 °C (132.4–133.9 °F)
· Flash point:	-22 °C (-7.6 °F)
<ul> <li>Flammability (solid, gaseous):</li> </ul>	Highly flammable.
<ul> <li>Decomposition temperature:</li> </ul>	Not determined.
· Ignition temperature:	Product is not selfigniting.
· Danger of explosion:	Product is not explosive. However, formation of explosive air/ vapor mixtures are possible.
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		(Contd. of page 6)
· Explosion limits:		
Lower:	1.2 Vol %	
Upper:	13 Vol %	
<sup>.</sup> Vapor pressure at 20 °C (68 °F):	233 hPa (174.8 mm Hg)	
Density:	Not determined.	
Relative density	Not determined.	
Vapor density	Not determined.	
Evaporation rate	Not determined.	
Solubility in / Miscibility with		
Water:	Not miscible or difficult to mix.	
· Partition coefficient (n-octanol/wat	er): Not determined.	
· Viscosity:		
Dynamic:	Not determined.	
Kinematic:	Not determined.	
· Solvent content:		
Organic solvents:	80.8 %	
VOC content:	52.76 %	
	527.6 g/l / 4.40 lb/gal	
· 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:
--

67-64-1 acetone

Oral	LD50	5,800 mg/kg (rat)
Dermal	LD50	20,000 mg/kg (rabbit)
108-88-3 1	toluene	
Oral	LD50	5,000 mg/kg (rat)
Dermal	LD50	12,124 mg/kg (rabbit)

Inhalative LC50/4 h 5,320 mg/l (mouse)

## Primary irritant effect:

• on the skin: Irritant to skin and mucous membranes.

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 on the eye: Irritating effect.
 Sensitization: No sensitizing effects known.
 Additional toxicological information: The product shows the following dangers according to internally approved calculation methods for preparations: Irritant

### · Carcinogenic categories

· IARC (International Agency for Research on Cancer)

108-88-3 toluene

## NTP (National Toxicology Program)

None of the ingredients is listed.

### · OSHA-Ca (Occupational Safety & Health Administration)

None of the ingredients is listed.

## **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

- · UN-Number
- · DOT, IMDG, IATA

UN1993

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UN proper shipping name	
DOT	Flammable liquids, n.o.s. (Hexanes, Acetone)
IMDG	FLAMMABLE LIQUID, N.O.S. (HEXANE
	ACETONE), MARINE POLLUTANT
ΙΑΤΑ	FLAMMABLE LIQUID, N.O.S. (HEXANE
	ACETONE)
Transport hazard class(es)	,
DOT	
R.A.MAABLE LOUID	
3	
Class	2 Elemmeble liquide
Label	3 Flammable liquids 3
	0
IMDG	
$\langle \underline{\Psi}_2 \rangle$	
Class	2 Elemmetria liquida
Class Label	3 Flammable liquids 3
	0
ΙΑΤΑ	
3	
Class	3 Flammable liquids
	3 Flammable liquids 3
Class Label Packing group	•
Label	•
Label Packing group	3
Label Packing group DOT, IMDG, IATA	3 II
Label Packing group DOT, IMDG, IATA	3 II Product contains environmentally hazardo
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant:	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree)
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids ode): 33
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number:	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids ode): 33 F-E, <u>S-E</u> B
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Transport in bulk according to Annex II of	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids ode): 33 F-E, <u>S-E</u> B
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids ode): 33 F-E, <u>S-E</u> B
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code Transport/Additional information:	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids ode): 33 F-E, <u>S-E</u> B
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code Transport/Additional information: DOT	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids ode): 33 F-E, <u>S-E</u> B of Not applicable.
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code Transport/Additional information: DOT	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids ode): 33 F-E, <u>S-E</u> B of Not applicable. On passenger aircraft/rail: 5 L
Label Packing group DOT, IMDG, IATA Environmental hazards: Marine pollutant: Special precautions for user Hazard identification number (Kemler co EMS Number: Stowage Category Transport in bulk according to Annex II o MARPOL73/78 and the IBC Code Transport/Additional information:	3 II Product contains environmentally hazardo substances: n-hexane Symbol (fish and tree) Warning: Flammable liquids ode): 33 F-E, <u>S-E</u> B of Not applicable.

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<ul> <li>IMDG</li> <li>Limited quantities (LQ)</li> <li>Excepted quantities (EQ)</li> </ul>	1L Code: E2 Maximum net quantity per inner packaging: 30 ml Maximum net quantity per outer packaging: 500 ml
· UN "Model Regulation":	UN 1993 FLAMMABLE LIQUID, N.O.S. (HEXANES, ACETONE), 3, II, ENVIRONMENTALLY HAZARDOUS

## 15 Regulatory information

· Safety, health and environmental regulations/legislation specific for the substance or mixture
No further relevant information available.

· TSCA (Toxic Substances Control Act):	
110-54-3 n-hexane	ACTIVE
67-64-1 acetone	ACTIVE
108-88-3 toluene	ACTIVE
68131-77-1 Petroleum Hydrocarbon Resin	ACTIVE
· Hazardous Air Pollutants	
110-54-3 n-hexane	
108-88-3 toluene	
Proposition 65	
<sup>.</sup> Chemicals known to cause cancer:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for females:	
None of the ingredients is listed.	
Chemicals known to cause reproductive toxicity for males:	
110-54-3 n-hexane	
Chemicals known to cause developmental toxicity:	
108-88-3 toluene	
· Carcinogenic categories	
· EPA (Environmental Protection Agency)	
110-54-3 n-hexane	
67-64-1 acetone	
108-88-3 toluene	I
TLV (Threshold Limit Value)	
67-64-1 acetone	A
108-88-3 toluene	A
NIOSH-Ca (National Institute for Occupational Safety and Health)	
None of the ingredients is listed.	
• <b>GHS label elements</b> The product is classified and labeled according to the Globally Harmonized Syste	em (GHS). (Contd. on page 1

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(Contd. of page 10) · Hazard pictograms GHS02 GHS07 GHS08 · Signal word Danger · Hazard-determining components of labeling: n-hexane toluene acetone Hazard statements Highly flammable liquid and vapor. Causes skin irritation. Causes serious eye irritation. Suspected of damaging fertility or the unborn child. May cause drowsiness or dizziness. May cause damage to organs through prolonged or repeated exposure. May be fatal if swallowed and enters airways. **Precautionary statements** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Use only non-sparking tools. Take precautionary measures against static discharge. Do not breathe dust/fume/gas/mist/vapors/spray. Wash thoroughly after handling. Use only outdoors or in a well-ventilated area. Wear protective gloves/protective clothing/eye protection/face protection. If swallowed: Immediately call a poison center/doctor. Specific treatment (see on this label). Do NOT induce vomiting. If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. 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. Call a poison center/doctor if you feel unwell. Get medical advice/attention if you feel unwell. Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention. If eye irritation persists: Get medical advice/attention. In case of fire: Use CO2, powder or water spray to extinguish. Store in a well-ventilated place. Keep container tightly closed. Store in a well-ventilated place. Keep cool. Store locked up. Dispose of contents/container in accordance with local/regional/national/international regulations. · Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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## Safety Data Sheet acc. to OSHA HCS

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## 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: Technical Department
- · Contact: Technical Director

· Abbreviations and acronyms: IMDG: International Maritime Code for Dangerous Goods DOT: US Department of Transportation 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) 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 Flammable Liquids 2: Flammable liquids - Category 2 Skin Irritation 2: Skin corrosion/irritation - Category 2 Eye Irritation 2A: Serious eye damage/eye irritation - Category 2A Toxic to Reproduction 2: Reproductive toxicity – Category 2 Specific Target Organ Toxicity - Single Exposure 3: Specific target organ toxicity (single exposure) – Category 3 Specific Target Organ Toxicity - Repeated Exposure 2: Specific target organ toxicity (repeated exposure) - Category 2 Aspiration Hazard 1: Aspiration hazard - Category 1

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