



# SAFETY DATA SHEET

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Version 1

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

### 1.1.

#### Product identifier

**Product Code(s):** 05046120-M  
**Product Name** HOUGHTO-DRIVE HM 32  
**Product Registration number**  
**Denmark** -  
**Norway** -  
**Sweden** -  
**EC #** Not Applicable  
**Pure substance/preparation** Contains Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)

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

**Recommended use** Industrial Hydraulic oil

**Uses advised against** Any other purpose.

### 1.3. Details of the supplier of the safety data sheet

#### **Manufacturer, Importer, Supplier**

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#### 1.4. Emergency telephone number

3E Company: (+)1 760 476 3961 ( Code 333938 )

<b>Austria</b>	Notfall-Telefonnummer +43 (0) 1 406 4343
<b>Bulgaria</b>	Телефон за спешни случаи +359 2 9154 409
<b>Switzerland</b>	145; +41 (0) 44 254 51 51
<b>Czech Republic</b>	Telefonní číslo pro naléhavé situace +420 224 919 293
<b>Denmark</b>	Ring til Giftlinjen på +45 82 12 12 12
<b>Finland</b>	Hätäpuhelinumero +358 09 471 977
<b>France</b>	Numéro d'appel d'urgence +33 (0)1 45 42 5959
<b>Hungary</b>	Díjmentesen hívható zöld szám +36 80 20 11 99
<b>Ireland</b>	Emergency telephone number +353 01 809 2166
<b>Netherlands</b>	Telefoonnummer voor +31 30 274 88 88
<b>Norway</b>	Nødnummer +47 22 59 13 00
<b>Poland</b>	112
<b>Portugal</b>	Número de telefone de emergência +351 808 250 143
<b>Romania</b>	Număr de telefon care poate fi apelat în caz de urgență +021 318 36 06 (08:00-15:00)
<b>Spain</b>	Número de teléfono de emergencia +34 91 562 0420
<b>Sweden</b>	Telefonnummer för nödsituationer +46 08 33 12 31 (09:00-17:00)
<b>Turkey</b>	(+)1 760 476 3959 ( Code 333938 )

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

#### Regulation (EC) No 1272/2008

This mixture is classified as not hazardous according to regulation (EC) 1272/2008 [GHS]

### 2.2. Label Elements

Contains Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)

EUH210 - Safety data sheet available on request.

**2.3. Other hazards**

No information available.

**SECTION 3: Composition/information on ingredients****3.1. Substances / 3.2. Mixtures**

This product is a mixture. Health hazard information is based on its ingredients

Chemical Name	EC-No	CAS-No	Weight %	Classification (Reg. 1272/2008)	REACH Registration Number
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	-	-	50% - 100%	Asp. Tox. 1 (H304) (EUH066)	-
Highly refined base oil (Viscosity >20.5 cSt @40°C)	-	-	25% - 50%	**	-

**Additional information**

Product containing mineral oil with less than 3% DMSO extract as measured by IP 346  
See Section 15 for additional information on base oils.

**Full text of H- and EUH-phrases: see section 16****SECTION 4: First aid measures****4.1. Description of first-aid measures**

<b>General advice</b>	If symptoms persist, call a physician.
<b>Inhalation</b>	Move to fresh air.
<b>Skin contact</b>	Wash off immediately with soap and plenty of water. Remove and wash contaminated clothing before re-use.
<b>Eye contact</b>	Rinse thoroughly with plenty of water, also under the eyelids. Keep eye wide open while rinsing.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. Do not induce vomiting without medical advice.
<b>Protection of First-aiders</b>	Use personal protective equipment.

**4.2. Most important symptoms and effects, both acute and delayed****Main Symptoms** None**4.3. Indication of immediate medical attention and special treatment needed****Notes to physician** Treat symptomatically.**SECTION 5: FIRE FIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment: Use water spray, fog, Carbon dioxide, foam or dry chemical, Cool containers / tanks with water spray, Use CO2, dry chemical, or foam, Water spray or fog

**Extinguishing media which shall not be used for safety reasons**

Do not use a solid water stream as it may scatter and spread fire.

**5.2. Special hazards arising from the substance or mixture****Special Hazard**

Combustible material. In the event of fire and/or explosion do not breathe fumes. Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke). This material creates a fire hazard because it floats on water. Thermal decomposition can lead to release of irritating gases and vapors.

**Hazardous Decomposition Products**

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide

**5.3. Advice for firefighters****Special protective equipment for fire-fighters**

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures**

Remove all sources of ignition. Ensure adequate ventilation.

**Advice for non-emergency personnel**

Material can create slippery conditions.

**Advice for emergency responders** For personal protection see section 8.

**6.2. Environmental precautions**

Prevent further leakage or spillage if safe to do so. Do not flush into surface water or sanitary sewer system.

**6.3. Methods and materials for containment and cleaning up**

After cleaning, flush away traces with water.

**6.4. Reference to other sections**

See Section 8/12/13 for additional information.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

Ensure adequate ventilation. Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice. Keep away from open flames, hot surfaces and sources of ignition.

**7.2. Conditions for safe storage, including any incompatibilities****Technical measures/Storage conditions**

Keep containers tightly closed in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep container tightly closed in a dry and well-ventilated place.

**Recommended Shelf Life**

No information available.

**Incompatible Materials**

Strong oxidizing agents, Strong acids, Strong bases

### 7.3. Specific end uses

Specific use(s) Industrial Hydraulic oil

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

Chemical Name	European Union	United Kingdom	France	Spain
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)				VLA-EC: 10 mg/m <sup>3</sup> VLA-ED: 5 mg/m <sup>3</sup>
Highly refined base oil (Viscosity >20.5 cSt @40°C)				VLA-EC: 10 mg/m <sup>3</sup> VLA-ED: 5 mg/m <sup>3</sup>

Chemical Name	Austria	Switzerland	Poland	Ireland
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)				STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (Mist)
Highly refined base oil (Viscosity >20.5 cSt @40°C)				STEL: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup> (Mist)

Chemical Name	Finland	Denmark	Norway	Sweden
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	TWA: 5mg/m <sup>3</sup> (Öljysumu)	TWA: 1 mg/m <sup>3</sup> (Olietåge)	TWA: 1 mg/m <sup>3</sup> (Oljetåke)	LLV: 1 mg/m <sup>3</sup> STV: 3 mg/m <sup>3</sup> (Oljedimma)
Highly refined base oil (Viscosity >20.5 cSt @40°C)	TWA: 5mg/m <sup>3</sup> (Öljysumu)	TWA: 1 mg/m <sup>3</sup> (Olietåge)	TWA: 1 mg/m <sup>3</sup> (Oljetåke)	LLV: 1 mg/m <sup>3</sup> STV: 3 mg/m <sup>3</sup> (Oljedimma)

Hydrocarbon solvent vapor mixtures which do not have substance specific occupational exposure limits may be evaluated by the Reciprocal Calculation Procedure (RCP) which assigns a recommended occupational exposure limit based on the mass composition and hydrocarbon group guidance values (GGVs). Applicable recommended occupational exposure limits are shown in the table below.

Chemical Name	RCP OEL	Manufacturer
Distillates (petroleum), hydrotreated middle 64742-46-7	RCP: TWA 1200 mg/m <sup>3</sup> 143ppm	

**Workers Systemic toxicity**

**Workers Local effects**

**Consumers Systemic toxicity**

**Consumers Local effects**

**Predicted No Effect Concentration (PNEC)**

**8.2. Exposure controls**

<b>Engineering Measures</b>	Ensure adequate ventilation, especially in confined areas.
<b>Personal protective equipment</b>	
<b>Eye Protection</b>	Safety glasses with side-shields.
<b>Hand Protection</b>	Protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion. Barrier creams may help to protect the exposed areas of skin, they should however not be applied once exposure has occurred.
<b>Skin and body protection</b>	Long sleeved clothing.
<b>Respiratory protection</b>	No special protective equipment required. In case of mist, spray or aerosol exposure wear suitable personal respiratory protection and protective suit.
<b>Hygiene measures</b>	Do not eat, drink or smoke when using this product. Handle in accordance with good industrial hygiene and safety practice.
<b>Environmental Exposure Controls</b>	No special environmental precautions required.
<b>Thermal hazards</b>	None under normal use conditions

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

<b>Physical state @20°C</b>	liquid	<b>Appearance</b>	clear amber
<b>Odor</b>	mineral oil	<b>Odor Threshold</b>	Not Applicable
<u>Property</u>	<u>Values</u>	<u>Note</u>	
<b>pH</b>	Not applicable		
<b>Melting Point / Freezing Point</b>	< 0 °C / < 32 °F		
<b>Boiling point/boiling range</b>	> 200 °C / > 392 °F		
<b>Flash point</b>	> 180 °C / > 356 °F	ASTM D 92	
<b>Evaporation rate</b>	No information available		
<b>Flammability (solid, gas)</b>	No information available		
<b>Flammability Limits in Air</b>			
<b>upper flammability limit</b>	No information available.		
<b>Lower flammability limit</b>	No information available.		
<b>Vapor pressure</b>	No information available.		
<b>Vapor density</b>	No information available.		
<b>Relative density</b>	0.8700	@15.5C	
<b>Solubility(ies)</b>	Insoluble in water		
<b>Partition coefficient: n-octanol/water</b>	Not Applicable		
<b>Autoignition temperature</b>	No information available		
<b>Decomposition temperature</b>	No information available		
<b>Viscosity, kinematic</b>	= 32 cSt @ 40 °C	ASTM D 445	
<b>Explosive properties</b>	Not Applicable		
<b>Oxidizing Properties</b>	Not Applicable		

**9.2 Other information**

<b>Viscosity, kinematic (100°C)</b>	No information available	
<b>Pour point</b>	< 0 °C / < 32 °F	ASTM D 97
<b>VOC Content</b>	No information available	

**SECTION 10: Stability and reactivity****10.1. Reactivity**

None under normal use conditions.

#### 10.2. Chemical stability

Stable under normal conditions.

#### 10.3. Possibility of hazardous reactions

None under normal use conditions

#### 10.4. Conditions to avoid

Heat, flames and sparks, Keep away from open flames, hot surfaces and sources of ignition

#### 10.5. Incompatible Materials

Strong oxidizing agents, Strong acids, Strong bases

#### 10.6. Hazardous decomposition products

Incomplete combustion and thermolysis produces potentially toxic gases such as carbon monoxide and carbon dioxide.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Product Information - Principle Routes of Exposure

<b>Inhalation</b>	None known
<b>Eye contact</b>	None known
<b>Skin contact</b>	None known
<b>Ingestion</b>	None known

#### Acute toxicity - Product Information

Product does not present an acute toxicity hazard based on known information.

#### Acute toxicity - Component Information

Chemical Name	LD50 Oral (Rat)	LD50 Dermal (Rat/Rabbit)	LC50 Inhalation
Highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	
Highly refined base oil (Viscosity >20.5 cSt @40°C)	>2000 mg/kg	>2000 mg/kg	

**Skin corrosion/irritation** None known.

**Serious eye damage/eye irritation** None known.

#### Sensitization

**Respiratory Sensitization** None known.  
**Skin sensitization** None known.

**Germ Cell Mutagenicity** None known.

<b>Carcinogenicity</b>	None known.
<b>Reproductive toxicity</b>	None known.
<b>Specific target organ systemic toxicity (single exposure)</b>	None known
<b>Specific target organ systemic toxicity (repeated exposure)</b>	None known.
<b>Aspiration hazard</b>	None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

No special environmental measures are necessary.

### 12.2. Persistence and degradability

The product is not readily biodegradable, but it can be degraded by micro-organisms, it is regarded as being inherently biodegradable.

### 12.3. Bioaccumulative potential

### 12.4. Mobility in soil

The product is insoluble and floats on water.

### 12.5. Results of PBT and vPvB assessment

This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT). This preparation contains no substance considered to be very persistent nor very bioaccumulating (vPvB).

### 12.6. Other adverse effects

None known

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste from Residues / Unused Products** Dispose of in accordance with local regulations

**Contaminated packaging** Empty containers should be taken to an approved waste handling site for recycling or disposal. Observe all label precautions until container is cleaned, reconditioned or destroyed.

**Other Data** According to the European Waste Catalogue, Waste Codes are not product specific, but application specific. Waste codes should be assigned by the user based on the application for which the product was used.

## SECTION 14: Transport information



**14.1. UN-Number**

Not regulated

**14.2. UN proper shipping name**

Not regulated

**14.3. Transport hazard class**

Not regulated

**14.4. Packing group**

Not regulated

**14.5. Environmental Hazards**

None.

**14.6. Special precautions for users**

None.

**14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

Not applicable

**IMDG/IMO** Not regulated**ADR/RID** Not regulated**ICAO/IATA** Not regulated**SECTION 15: Regulatory information****15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

The Classification, Labeling and Packaging of Substances and Mixtures (CLP) Regulation (EC 1272/2008)  
 Registration, Evaluation, Authorization, and Restriction of Chemicals (REACH) Regulation (EC 1907/2006)

Statutory Instruments: Control of Substances Hazardous to Health Regulations 2002. Chemicals (Hazard Information and Packaging) Regulations 2009.

Acts of Parliament: The Health and Safety at Work etc. Act 1974. Environment Protection Act 1990.

Regulation on classification, labeling, of hazardous chemicals (2002 changing 2005). Appendix VI to Regulation on classification, labeling etc. of hazardous chemicals (2002 changing 2010), list of hazardous substances (as amended). Guidelines for submission and declaration of hazardous waste (2009). Transport of dangerous goods: ADR, RID, IMDG and IATA. Administrative norms for pollution of the atmosphere, 2009.

Workplace exposure limits (EH40)

**WGK Classification**

Low hazard to water/Class 1

**The highly refined base oil (Viscosity >20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:**

Chemical Name	CAS-No	EC-No	REACH Registration Number
Lubricating oils (petroleum), C24-50, solvent-extd., dewaxed, hydrogenated	101316-72-7	309-877-7	01-2119489969-06-xxxx

Lubricating oils (petroleum), used, noncatalytically refined	101316-73-8	309-878-2	02-2119822310-56-xxxx
Distillates (petroleum), solvent-refined heavy paraffinic	64741-88-4	265-090-8	
Residual oils (petroleum), solvent-refined	64742-01-4	265-101-6	01-2119488707-21-xxxx
Extracts (petroleum), residual oil solvent	64742-10-5	265-110-5	01-2119488175-30-xxxx
Distillates (petroleum), hydrotreated heavy naphthenic	64742-52-5	265-155-0	01-2119467170-45-xxxx
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	01-2119484627-25-xxxx
Residual oils (petroleum), hydrotreated	64742-57-0	265-160-8	01-2119489287-22-xxxx
Lubricating oils (petroleum), hydrotreated spent	64742-58-1	265-161-3	
Residual oils (petroleum), solvent-dewaxed	64742-62-7	265-166-0	01-2119480472-38-xxxx
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0	265-169-7	01-2119471299-27-xxxx
Paraffin oils (petroleum), catalytic dewaxed heavy	64742-70-7	265-174-4	01-2119487080-42-xxxx
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	276-737-9	01-2119474878-16-xxxx
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based	72623-87-1	276-738-4	01-2119474889-13-xxxx
Lubricating oils	74869-22-0	278-012-2	
Paraffin oils	8012-95-1	232-384-2	
White mineral oil (petroleum)	8042-47-5	232-455-8	01-2119487078-27-xxxx

The highly refined, low viscosity mineral oils/hydrocarbons (Viscosity >7 - <20.5 cSt @40°C) contains one or more substance with the following CAS/EC numbers/REACH registration numbers:

Chemical Name	CAS-No	EC-No	REACH Registration Number
Distillates (petroleum), straight-run middle	64741-44-2	265-044-7	
Distillates (petroleum), heavy hydrocracked	64741-76-0	265-077-7	01-2119486951-26-xxxx
Distillates (petroleum), solvent-refined light paraffinic	64741-89-5	265-091-3	01-2119487067-30-xxxx
Distillates (petroleum), hydrotreated middle	64742-46-7	265-148-2	01-2119459347-30-xxxx
Distillates (petroleum), hydrotreated middle	64742-46-7	934-956-3	01-2119827000-58-xxxx
Distillates (petroleum), hydrotreated light	64742-47-8	265-149-8	01-2119456620-43-xxxx
Distillates (petroleum), hydrotreated light naphthenic	64742-53-6	265-156-6	01-2119480375-34-xxxx
Distillates (petroleum), hydrotreated heavy paraffinic	64742-54-7	265-157-1	01-2119484627-25-xxxx
Distillates (petroleum), hydrotreated light paraffinic	64742-55-8	265-158-7	01-2119487077-29-xxxx
Distillates, petroleum, solvent-dewaxed light paraffinic	64742-56-9	265-159-2	01-2119480132-48-xxxx
Distillates (petroleum), solvent-dewaxed heavy, paraffinic	64742-65-0	265-169-7	01-2119471299-27-xxxx
Lubricating oils (petroleum), C15-30, hydrotreated neutral oil-based	72623-86-0	276-737-9	01-2119474878-16-xxxx
Lubricating oils (petroleum), C20-C50, hydrotreated neutral oil-based	72623-87-1	276-738-4	01-2119474889-13-xxxx
White mineral oil (petroleum)	8042-47-5	232-455-8	01-2119487078-27-xxxx
Hydrocarbons, C14-C19, isoalkanes, cyclics, <2% aromatics	NOT AVAILABLE	920-114-2	01-2119459347-30-xxxx

## 15.2. Chemical Safety Assessment

No information available.

## SECTION 16: Other information

### Key or legend to abbreviations and acronyms used in the safety data sheet

Repr.-Reproduction toxicity  
 Asp. Tox. - Aspiration Toxicity  
 Acute Tox. - Acute Toxicity  
 Aquatic Acute - Acute Aquatic Toxicity  
 Aquatic Chronic - Chronic Aquatic Toxicity  
 Eye Dam. - Eye Damage  
 Eye Irrit. - Eye Irritation  
 Skin Corr. - Skin Corrosion  
 Skin Irrit. - Skin Irritation  
 Skin Sens. - Skin Sensitizer  
 Resp. Sens. - Respiratory Sensitizer

STOT SE - Specific target organ systemic toxicity (Single exposure)  
 STOT RE - Specific target organ systemic toxicity (repeated exposure)  
 VOC - Volatile organic compounds

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

<ul style="list-style-type: none"> <li>• H224 - Extremely flammable liquid and vapor</li> <li>• H225 - Highly flammable liquid and vapor</li> <li>• H226 - Flammable liquid and vapor</li> <li>• H270 - May cause or intensify fire; oxidizer</li> <li>• H271 - May cause fire or explosion; strong oxidizer</li> <li>• H272 - May intensify fire; oxidizer</li> <li>• H290 - May be corrosive to metals</li> <li>• H300 - Fatal if swallowed</li> <li>• H301 - Toxic if swallowed</li> <li>• H302 - Harmful if swallowed</li> <li>• H304 - May be fatal if swallowed and enters airways</li> <li>• H310 - Fatal in contact with skin</li> <li>• H311 - Toxic in contact with skin</li> <li>• H312 - Harmful in contact with skin</li> <li>• H314 - Causes severe skin burns and eye damage</li> <li>• H315 - Causes skin irritation</li> <li>• H317 - May cause an allergic skin reaction</li> <li>• H318 - Causes serious eye damage</li> <li>• H319 - Causes serious eye irritation</li> <li>• H330 - Fatal if inhaled</li> <li>• H331 - Toxic if inhaled</li> <li>• H332 - Harmful if inhaled</li> <li>• H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled</li> <li>• H335 - May cause respiratory irritation</li> <li>• H336 - May cause drowsiness or dizziness</li> <li>• H340 - May cause genetic defects</li> </ul>	<ul style="list-style-type: none"> <li>• H341 - Suspected of causing genetic defects</li> <li>• H350 - May cause cancer</li> <li>• H351 - Suspected of causing cancer</li> <li>• H360 - May damage fertility or the unborn child</li> <li>• H361 - Suspected of damaging fertility or the unborn child</li> <li>• H362 - May cause harm to breast-fed children</li> <li>• H370 - Causes damage to organs</li> <li>• H371 - May cause damage to organs</li> <li>• H372 - Causes damage to organs through prolonged or repeated exposure</li> <li>• H373 - May cause damage to organs through prolonged or repeated exposure</li> <li>• H400 - Very toxic to aquatic life</li> <li>• H410 - Very toxic to aquatic life with long lasting effects</li> <li>• H411 - Toxic to aquatic life with long lasting effects</li> <li>• H412 - Harmful to aquatic life with long lasting effects</li> <li>• H413 - May cause long lasting harmful effects to aquatic life.</li> <li>• H360Df - May damage the unborn child. Suspected of damaging fertility</li> <li>• H360D - May damage the unborn child</li> <li>• H360FD - May damage fertility. May damage the unborn child</li> <li>• H360F - May damage fertility</li> <li>• H361d - Suspected of damaging the unborn child</li> <li>• H361fd - Suspected of damaging fertility. Suspected of damaging the unborn child</li> <li>• H361f - Suspected of damaging fertility</li> <li>• EUH066 - Repeated exposure may cause skin dryness or cracking</li> <li>• EUH210 - Safety data sheet available on request.</li> <li>• EUH208 - May produce an allergic reaction</li> </ul>
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#### Exposure scenario

No information available.

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#### Revision Note

#### Disclaimer

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