
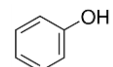


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SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier


Product Name:	Phenol
Other/Generic Names:	Hydroxybenzene
REACH Registration Number:	01-2119471329-32-xxxx
EC Number:	203-632-7
CAS Number:	108-95-2
Molecular formula:	C ₆ H ₆ O
Molecular Structure:	
Molecular weight range:	94.11 gram/mole

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

IDENTIFIED USES:	Laboratory reagent and manufacturing of substances
MOST COMMON TECHNICAL FUNCTION OF SUBSTANCE (WHAT IT DOES):	No data available
USES BY CONSUMERS ADVISED AGAINST	No data available

1.3 Manufacturer or supplier's details

Manufacturer	Rabigh Refining and Petrochemical Company		
Address	PLANT PO Box 101, Rabigh 21911, Kingdom of Saudi Arabia Tel: +966 12 425 0390 Free Number: 800 440 9000		
E-mail address of person responsible for this SDS	stephane.dallaire@petrorabigh.com		
Emergency telephone numbers (24-hour)	Asia Pacific (except China):	CareChem 24 +65 3158 1074	English, Cantonese, Indonesian, Japanese, Korean, Malay, Mandarin, Thai, Vietnamese
	China (Off-land):	CareChem 24 +86 512 8090 3042	English, Mandarin
	US, Canada: Outside above area:	ChemTrec 1-800-424-9300 +703-527-3887	English
	Europe, America, Middle East, Africa (Europe & English Speaking):	CareChem 24 +44 (0) 1235 239 670	English, Albanian, Bulgarian, Czech, Danish, Dutch, Finnish, French, German, Greek, Hungarian, Italian, Lithuanian, Norwegian, Polish, Portuguese, Romanian, Russian, Serb-Croat, Slovak, Spanish, Swedish, Turkish, Ukrainian
	Middle East & Africa (Arabic speaking):	CareChem 24 +44 (0) 1235 239 671	English, Arabic, French


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SECTION 2: Hazards Identification

2.1 Classification of the substance or mixture

Product Definition:	
Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]:	H301: Toxic if swallowed H311: Toxic in contact with skin H331: Toxic if inhaled H314: Causes severe skin burns and eye H341: Suspected of causing genetic defects H373: May cause damage to organs through prolonged or repeated exposure H411: Toxic to aquatic life with long lasting effects
Classification according to Directive 67/548/EEC [DSD]:	T Toxic C Corrosive Xn Harmful R23/24/25: Toxic by inhalation, in contact with skin and if swallowed R34: Causes burns R48/20/21/22: Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed R68: Possible risk of irreversible effects


2.2 Label elements

Hazard pictograms (Labelling according Regulation (EC) No 1272/2008):	
Signal word:	Danger
Hazard statements:	H301+H311+H331: Toxic if swallowed, in contact with skin or if inhaled H314: Causes severe skin burns and eye H341: Suspected of causing genetic defects H373: May cause damage to organs through prolonged or repeated exposure H411: Toxic to aquatic life with long lasting effects
Precautionary statements Prevention:	P261: Avoid breathing dust/fume/gas/mist/vapours/spray P273: Avoid release to the environment P280: Wear protective gloves/protective clothing/eye P301+P310: IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing Supplemental Hazard information (EU): None
Special packaging requirements	No data available
Tactile warning of danger:	No data available

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII:	Not applicable
Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII:	Not applicable
Other hazards which do not result in classification:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Conform to Regulation (EC) No. 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorization and Restriction of Chemicals (REACH), Annex II -Europe

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SECTION 3: Composition/information on ingredients

3.1 Classification of the substance or mixture

Product/ ingredient name	Identifiers	Wt%	Classification		
			Directive 67/548/ECC	Regulation (EC) No. 1272/2008 [CLP/GHS]	Type
Phenol	EC: 203-632-7 CAS: 108-95-2	100%	T; Toxic (category 3) Xi:: Skin corrosive (1B) R23/24/25; R34; R68; R48/20/21/22	H301+H311+H331; H314; H341; H373; H411 STOT RE 2; Aquatic STOT: Specific target organ Toxicity RE: Repeated exposure	[A]
Refer to sections 2.1 and 2.2 above for definitions					

There are no additional ingredients present which, within the current knowledge of the supplier, are classified and contribute to the classification of the substance and hence require reporting in this section.

Type

[A] Constituent; [B] Impurity; [C] Stabilizing additive; Occupational exposure limits, if available, are listed in Section 8.

SECTION 4: First aid measures

4.1 Description of first aid measures

Inhalation	In case of inhalation of vapors or mist, immediately move the exposed person to fresh air and keep warm and at rest in a position comfortable for breathing, covering his/her body with a blanket or similar. Seek medical attention promptly. If breathing is shallow or has stopped, loosen tight clothing to maintain an open airway, and then provide oxygen or artificial respiration. If the person is breathing and vomiting, turn his/her head to the side. If unconscious, never give anything by mouth and never induce vomiting.
Skin contact	Immediately remove contaminated clothing and shoes. Wash affected skin with soap and [plenty of water. If changes in the appearance of the affected area, for example, development of skin eruptions, are observed, or if skin irritation or pain persists, immediately seek medical attention. In the case of contact with molten material, immediately pour large amounts of water over the affected area without removing the exposed person's clothing to thoroughly cool it. Then remove the clothing, cover with clean gauze, etc. and promptly seek medical attention. Do not forcibly pull away materials or clothing attached to the skin.
Eye contact	Flush with clean water for at least 15 minutes and immediately seek medical attention from an ophthalmologist. When washing the eye, hold the eyelids open using the thumb and index finger to ensure that effective rinsing has occurred behind the eyeball and the eyelid. Remove contact lenses if worn, unless they have adhered to eyes, and continue flushing. Do not allow the exposed person to rub his/her eyes or keep them tightly closed.
Ingestion	Do NOT induce vomiting. Only when conscious, wash mouth out thoroughly with water. If recovery is not rapid, seek medical attention immediately. Provide artificial respiration or oxygen, if necessary. If the person is breathing and vomiting, turn his/her head to the side. If the exposed person is unconscious, never give anything by mouth and never induce vomiting.
Protection of first-aiders	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.


4.2 Most important symptoms and effects, both acute and delayed

Potential acute and delayed health effects

Inhalation	Very toxic by inhalation, corrosive and causes burns to the respirator tract system. May cause damage to organs through prolonged or repeated exposure. Refer to sections 2 and 11 for details.
Skin contact	Corrosive, causes burns and is readily absorbed through the skin leading to toxicological effects. Refer to sections 2 and 11 for details
Eye contact	Corrosive and causes severe eye damage; refer to sections 2 and 11 for details.
Ingestion	Toxic if swallowed: Vomiting and other symptoms similar to those listed under 'Inhalation'. Refer to section 2.2.

Over-exposure signs/symptoms

Eye contact	No specific data available
Inhalation	No specific data available
Skin contact	No specific data available
Ingestion	No specific data available

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4.3 Indication of any immediate medical attention and special treatment needed	
Notes to physician	Treat symptomatically. Contact poison treatment specialist immediately if eyes were exposed to large quantities or large quantities have been ingested or inhaled. Use PPE such as gloves, goggles and masks.
Specific treatments	No specific information

SECTION 5: Firefighting measures

5.1 Extinguishing media	
Suitable extinguishing media	Minor fire: powder fire-extinguisher, CO ₂ or alcohol-resistant foam fire-extinguisher. Major fire: sprinkling of water, water spray, or alcohol-resistant foam fire-extinguisher.
Unsuitable extinguishing media	No data available.
5.2 Special hazards arising from the substance of mixture	
Hazards from the substance or mixture	No data available
Hazardous thermal decomposition products	When heated, decomposition gases include carbon dioxide (CO ₂).
5.3 Advice for firefighters	
Special protective actions for fire-fighting	Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Specific protective equipment for fire-fighting	Prevent supply of combustibles, and use proper extinguishing media. Extinguish fire from its windward side as much as possible. Use unattended hose holder and the nosepiece with monitor at the location that is most apart from fire but effective to distinguish it. Keep people away from around fire except for authorized personnel. Wear protective equipment for breathing in the case of toxic gases and fumes are produced by combustion or high temperature. If fire is overwhelming and this does not work, sprinkle water against it. When there occurs fire around the container, move it to a safe location, if not dangerous to do so. If the container cannot be moved, pour water over it to cool it down. Pour plenty of water even after the fire has been extinguished, to cool down the container adequately. Clothing for fire-fighters (including helmets, protective boots and gloves) conforming to European standard EN 469 will provide a basic level of protection for chemical incidents. Keep upwind.

SECTION 6: Accidental release measure

6.1 Personal precautions, protective equipment and emergency procedures	
For non-emergency personnel	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid breathing vapors and mist.
For emergency responders	If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. For indoor release, provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Remove ignitable material in the surrounding quickly. Make extinguishers and extinguishing media ready to prepare for potential fire.
6.2 Environmental precautions	
Avoid dispersal of spilled material and of entry into waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).	
6.3 Methods and materials for containment and cleaning up	
Small spill	Stop leak if without risk. Move containers from spill area. Mop up and place in an appropriate and properly labeled waste disposal container. Dispose of via a licensed waste disposal contractor.
Large spill	Stop leak if without risk. Remove all sources of ignition. Ensure adequate ventilation. Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Wet down with water and dike. Contain collected material in dry and clean containers for disposal according to local regulations (see section 13). Dispose of via a licensed waste disposal contractor. Note: see section 1 for emergency contact information and section 13 for waste disposal.
6.4 Reference to other sections	
See Section 1 for emergency contact information. See Section 8 for information on appropriate personal protective equipment. See Section 13 for additional waste treatment information.	

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SECTION 7: Handling and storage

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

7.1 Precautions for safe handling

Protective measures	Use appropriate personal protective equipment (see Section 8). Do not breathe vapors or mist. Do not ingest. Avoid contact with eyes, skin and clothing. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Ensure all equipment is electrically grounded before beginning transfer operations. Empty containers retain product residue and can be hazardous. Do not reuse containers. All containers shall be properly labeled.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.

7.2 Conditions for safe storage, including any incompatibilities

Seal the container to avoid contamination by a foreign substance, and keep it at a place with adequate airflow. Walls, pillars and floor of the storage should be fireproof, and its beams should be made of noncombustible material. Its roof should be slated with light noncombustible material such as metal plates, and there should be no ceiling. Its floor should be waterproof or impermeable, and it should have proper slope and trough to collect contaminated water.

Provide natural/artificial lighting and ventilation devices required for storage and handling of the product. There should be no flammable in the surrounding. Keep away from fire and heat source. No smoking. Keep away from substances that may pose danger when mixed with the product.

7.3 Specific end use(s)

Recommendations	No specific information is available.
Industrial sector specific solutions	No specific information is available.

SECTION 8: Exposure controls/personal protection

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

8.1 Control parameters

Occupational exposure limits

Substance	Form	TLV-TWA (ACGIH)	PEL-TWA (OSHA)	NIOSH
Phenol	Vapor	5 ppm (skin)	5 ppm (skin)	TWA: 5 ppm (skin) Ceiling: 15.6 ppm (skin) IDLH: 50 ppm

Recommended monitoring procedures

If this product contains ingredients with exposure limits, personal, workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures and/or the necessity to use respiratory protective equipment. Reference should be made to European Standard EN 689 for methods for the assessment of exposure by inhalation to chemical agents and national guidance documents for methods for the determination of hazardous substances.

Derived No Effect Levels (DNEL): No information is available


Product/ingredient name	Exposure	Value	Population	Effects
Phenol	No data available	-	-	-

Predicted No Effect Concentrations (PNEC): No information is available

Product/ingredient name	Compartment Details	Value	Method Detail
Phenol	No data available	-	-

8.2 Exposure controls

Appropriate engineering controls	If user operations generate dust, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits.
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Individual protection measures	
Hygiene measures:	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Eye/face protection:	Tightly fitting safety goggles. Face shield (8-inch minimum). Use approved equipment by organizations such as NIOSH in USA or EN 166 in EU.
Skin protection	
Hand protection:	Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this are necessary. For 8-hour full or splash contact with the material, use gloves made of butyl rubber with minimum layer thickness of 0.3 mm. Selected gloves have to satisfy the specifications of EU directive 89/686/EEC and the standard EN 374 derived from it.
Body protection:	Complete suit protecting against chemicals. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.
Other skin protection:	Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product. If used in solution, or mixed with other substances, contact suppliers of approved gloves and skin protection. This is only advisory and must be evaluated on a case-to- case basis by specialists.
Respiratory protection:	Use properly fitted, air-purifying or air-fed respirators complying with approved standards if risk assessment indicates this is necessary or as backup to engineering controls. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Recommended: organic vapor filter (Type A) approved by NIOSH in USA and CEN in EU.
Environmental exposure controls:	Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties


Appearance	
Physical state:	Crystalline solid (Below melting point) Liquid, clear (at or above melting point)
Color:	White crystalline solid (below melting point) Colorless to light yellowish liquid (at or above melting point)
Odor:	Phenolic, Medicinal
Odor threshold :	No data available
pH:	No data available
Melting point/freezing point range:	40.0 – 43.0 °C
Boiling point:	180 °C @ 1.013 hPa
Flash point:	79 °C (C.C.) and 85 °C (Tag OC)
Evaporation rate (Butyl acetate=1.0):	No data available
Flammability (solid, gas):	No data available
Burning time:	No data available
Burning rate:	No data available
Upper/lower flammability or explosive limits:	Lower: 1.7% (v/v) Upper: 8.6% (v/v)
Vapor Pressure:	No data available
Vapor Specific Gravity (Air=1):	1. No data available
Specific gravity (water =1.0)	1.06 (20/4)
Solubility(ies):	Completely miscible
Partition coefficient; n-octane/water:	No data available
Auto-ignition temperature:	715 °C
Decomposition temperature:	No data available
Viscosity:	No data available
Explosive properties:	No data available

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Oxidizing properties:	No data available
9.2 Other information	
None	

SECTION 10: Stability and reactivity	
10.1 Reactivity	
No specific test data related to reactivity available for this product.	
10.2 Chemical stability	
Stable under recommended storage conditions.	
10.3 Possibility of hazardous reactions	
No data available.	
10.4 Conditions to avoid	
High temperatures, heat, flames and sparks.	
10.5. Incompatible materials	
Strong oxidizers, strong acids and strong bases.	
10.6 Hazardous decomposition products	
Under normal conditions of storage and use, hazardous decomposition products should not be produced. Carbon monoxide is generated by thermal decomposition.	

SECTION 11: Toxicological information				
11.1 Information on toxicological effects				
Acute Toxicity:	Product/ingredient name	Result	Species	Dose
Oral	Phenol	LD50	Rat	317 mg/kg
Dermal	Phenol	LD50	Rat Rabbit	525 mg/kg 630 mg/kg
Inhalation	Phenol	LC50 (Vapor)	Rat	316 mg/m ³
Irritation/Skin Corrosivity:	Phenol	Moderate skin irritation was observed in rabbits. On humans, contact dermatitis associated with papules and vesicles through occupational exposure develops.		
Irritation/Eye Corrosivity:	Phenol	No data available.		
Sensitization (Respiratory):	Phenol	No data available		
Sensitization (Skin):	Phenol	No data available		
Mutagenicity:	Phenol	No data available		
Carcinogenicity:	Phenol	IARC: Group 3, ACGIH: A4		
Reproductive toxicity (Teratogenicity):	Phenol	No data available		
Specific target organ toxicity STOT (single exposure):				
	Phenol	No data available		
Specific target organ toxicity STOT (repeated exposure):				
	Phenol	No data available		
Aspiration Hazards:	Phenol	No data available		
Additional Information				
	Phenol	RTECS: No data available		
	Phenol	Material is extremely destructive to tissues of the mucous membranes and upper respiratory tract, eyes and skin. Can cause spasm, inflammation and edema of the larynx and of the bronchi, pneumonitis, pulmonary edema, burning sensation, cough, wheezing, laryngitis, shortness of breath, headache and nausea.		

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SECTION 12: Ecological information

12.1 Toxicity				
Acute Toxicity:	Product/ingredient name	Result	Species	Dose
	Phenol	LC50	Fish	12 mg/L
		LC50	Daphnia	13 mg/L (48 h)
		EC50	Daphnia	23.0 mg/L (48 h)
		EC50	Algae	150 mg/L (96 h)
Chronic Toxicity:				
Persistence/Durability:	Phenol	No data available	-	-
Bioaccumulative potential:	Phenol	No data available	-	-
Mobility in soil				
Product/ingredient name	Result			
Phenol	No data available			
12.2 Persistence and degradability				
Conclusion/summary:	No data available			
12.3 Bioaccumulative potential				
Conclusion/summary:	No information available			
12.4 Mobility in soil				
Conclusion/summary:	No data available			
12.5 Results of PBT and vPvB assessment				
No data available				
12.6 Other adverse effects				
No known significant effects or critical hazards.				

SECTION 13: Disposal considerations

The information in this section contains generic advice and guidance. The list of Identified Uses in Section 1 should be consulted for any available use-specific information provided in the Exposure Scenario(s).

13.1 Waste treatment methods	
Product	
Methods of disposal:	The generation of waste should be avoided or minimized wherever possible. Significant quantities of waste product residues should not be disposed of via the foul sewer but processed in a suitable effluent treatment plant. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements.
Hazardous waste:	This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.
Packaging	
Methods of disposal:	The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration should only be considered when recycling is not feasible.
Special precautions:	This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

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SECTION 14: Transport information

		ADR/RID	ADN/ADNR	IMDG	IATA
14.1	UN number	1671	1671	1671	1671
	Solid	2312	2312	2312	2312
	Molten				
14.2	UN proper shipping name	Phenol Solid or Molten	Phenol Solid or Molten	Phenol Solid or Molten	Phenol Solid or Molten
14.3	Transport hazard class(es)	6.1 (solid or liquid)	6.1 (solid or liquid)	6.1 (solid or liquid)	6.1 ((solid or liquid)
14.4	Packing group	II	II	II	II
14.5	Environmental hazards	None	None	None	None
14.6	Special precautions for user	No data available	No data available	No data available	No data available
14.7	Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	No data available	No data available	No data available	No data available

SECTION 15: Regulatory information

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

EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

Substances of very high concern

No data available

Annex XVII – Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

No data available

Other EU regulations


Europe inventory: All components are listed or exempted.
 Black List Chemicals: Not listed
 Priority List Chemicals: No data available
 Integrated pollution prevention and control list (IPPC) - Air: No data available
 Integrated pollution prevention and control list (IPPC) - Water: No data available

International regulations

Chemical Weapons Convention List Schedule I Chemical: Not listed
 Chemical Weapons Convention List Schedule II Chemicals: Not listed
 Chemical Weapons Convention List Schedule III Chemicals: Not listed

15.2 Chemical Safety Assessment

This product contains substances for which Chemical Safety Assessments are still required.

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SECTION 16: Other information	
Indicates information that has changed from previously issued version.	
Abbreviations and acronyms: Refer to respective sections in this SDS	
Procedure used to derive the classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	
Classification	Justification
Skin irritant	Expert judgement
Toxic if swallowed	Expert judgement
STOT RE 2: Aquatic	Expert judgement
Full text of abbreviated H statements:	Already provided in respective sections
Full text of classifications[CLP/GHS]:	Already provided in respective sections
Full text of abbreviated R phrases:	Already provided in respective sections
Full text of classifications[DSD/DPD]:	Already provided in respective sections
Date of issue/ Date of revision:	01/07/2019
Date of previous issue:	11/07/2018
Version:	1.3
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