

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

1.1	Product Identifier	
	Product name	Transformer oil POWEROIL [®] TO 1020 60 H
	Product description	Insulating oil
	Product type	Liquid
	MARPOL Annex- I	Oils
1.2	Identified uses	Industrial
	Distribution of substance	
	Formulation & (re)packing of substances and mixtures Manufacture of substance	Industrial Industrial Industrial
	Functional Fluids	
1.3	Details of the supplier of the safety	y data sheet
	Supplier/Manufacturer	Petroleum Specialities FZE. Hamriyah Free zone- Phase 1, Plot no. 1C-02D1, Sharjah, PO box: 42180. United Arab Emirates. +971 65096444 (Office hours 9.30am to 17.00pm) www.apar.com
	e- mail address of person responsible for this SDS	psf.hse@apar.com

1.4 Emergency telephone number

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the	substance or mixture	
Product definition	Mixture	
Classification according to Re	egulation (EC) No. 1272/2008 [CLP/GHS]	
Asp. Tox. 1, H304		
The product is classified as h	azardous according to Regulation (EC) 1272/2008	as amended.
See Section 16 for the full tex	t of the H statements declared above.	
2.2 Label elements		
Hazard pictograms		

Hazard pictograms



+971566893936

Signal word Hazard statements	Danger H 304 : May be fatal if swallowed and enters airways.
Precautionary statements	Not applicable
Prevention	P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce
Response Storage Disposal	vomiting. P405 - Store locked up. P501 - Dispose of contents/container in accordance with all local, regional, national and international
Annex XVII - Restrictions on the manufacture,	regulations. Not applicable

placing on the market and use of certain dangerous substances, mixtures and articles

2.3 Other hazards

Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

Not applicable

Not applicable

SECTION 3 COMPOSTION/ INFORMATION ON INGREDIENTS



Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)

3.2 Mixtures	Mixture			
Product/Ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
Distillate (petroleum), Severely hydrotreated light paraffinic Oil.	EC: 265-158-7 CAS: 64742-55-8	>99	Asp. Tox. 1, H304	[1]

Annex I Nota L applies to the base oil(s) in this product. Nota L - The classification as a carcinogen need not apply if it can be shown that the substance contains less than 3 % DMSO extract as measured by IP 346.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment, are PBTs or vPvBs or have been assigned a workplace exposure limit and hence require reporting in this section. <u>Type</u>

[1] Substance classified with a health or environmental hazard

[2] Substance with a workplace exposure limit

[3] Substance meets the criteria for PBT according to Regulation (EC) No. 1907/2006, Annex XIII

[4] Substance meets the criteria for vPvB according to Regulation (EC) No. 1907/2006, Annex XIII

[5] Substance of equivalent concern

SECTION 4 FIRST AID MEASURES

4.1 Description of first aid measures

	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue
Eye contact	rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.
	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If
Inhalation	casualty is unconscious and: If not breathing, if breathing is irregular or if respiratory arrest occurs, provide
	artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or
	are severe. Maintain an open airway.
Skin contact	Wash with soap and water. Remove contaminated clothing and shoes. Handle with care and dispose of in a
Skii conaci	safe manner. Seek medical attention if skin irritation, swelling or redness develops and persists.
	Accidental high pressure injection through the skin requires immediate medical attention. Do not wait for symptoms to develop.
	Always assume that aspiration has occurred. Do not induce vomiting. Can enter lungs and cause damage. If
Ingestion	vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek professional
0	medical attention or send the casualty to a hospital. Do not wait for symptoms to develop.
	Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get
	medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or
	waistband.
	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the
Protection of first-aiders	person providing aid to give mouth-to-mouth resuscitation.
	Before attempting to rescue casualties, isolate area from all potential sources of ignition including
	disconnecting electrical supply. Ensure adequate ventilation and check that a safe, breathable atmosphere is present before entry into confined spaces.
4.2 Most important symptoms and effe	
Potential acute health effects	cis, boin acule and delayed
Eye contact	Eye contact may cause redness and transient pain.
Inhalation	Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.
Skin contact	No known significant effects or critical hazards.
Ingestion	May be fatal if swallowed and enters airways.
· · · · · · · · · · · · · · · · · · ·	al attention and special treatment needed
•	Due to low viscosity there is a risk of aspiration if the product enters the lungs. Treat symptomatically.
	Always assume that aspiration has occurred.
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SECTION 5 FIRE FIGHTING MEASURES



5.1 Extinguishing media

Suitable extinguishing media Unsuitable extinguishing media

5.2 Special hazards arising from the substance or mixture

Hazards from the substance or mixture Hazardous thermal decomposition products

5.3 Advice for firefighters

Special precautions for firefighters

Special protective equipment for fire-fighters

Dry chemicals. Foam. Carbon dioxide (CO₂). Water spray or foam. Do not use direct water jets on the burning product; they could cause splattering and spread the fire. Simultaneous use of foam and water on the same surface is to be avoided as water destroys the foam.

substance or mixture In a fire or if heated, a pressure increase will occur and the container may burst.

This substance will float and can be reignited on surface water.

Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H2S, SOx (sulfur oxides) or sulfuric acid and unidentified organic and inorganic compounds.

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.

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode. 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.

SECTION 6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Avoid breathing vapour or mist. Keep non-involved personnel away from the area of spillage. Alert emergency
personnel. Except in case of small spillages, the feasibility of any actions should always be assessed and
advised, if possible, by a trained, competent person in charge of managing the emergency. Stop leak if safe
to do so. Avoid direct contact with the product. Stay upwind/keep distance from source. In case of large
spillages, alert occupants in downwind areas.
Eliminate all ignition sources if safe to do so. Spillages of limited amounts of product, especially in the open
air when vapours will be usually quickly dispersed ,are dynamic situations, which will presumably limit the
exposure to dangerous concentrations.
Note : recommended measures are based on the most likely spillage scenarios for
this material; however, local conditions (wind, air temperature, wave/current
direction and speed) may significantly influence the choice of appropriate actions.
For this reason, local experts should be consulted when necessary. Local regulations may also prescribe or
limit actions to be taken.
Small spillages: normal antistatic working clothes are usually adequate.
Large spillages: full body suit of chemically resistant and thermal resistant material should be used. Work
gloves providing adequate chemical resistance, specifically to aromatic hydrocarbons.
Note : gloves made of PVA are not water-resistant, and are not suitable for emergency use. Safety helmet,
antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes is
possible or anticipated.
possible or anticipated. Respiratory protection : A half or full-face respirator with filter(s) for organic vapours (and when applicable
possible or anticipated. Respiratory protection : A half or full-face respirator with filter(s) for organic vapours (and when applicable for H2S) a Self Contained Breathing Apparatus (SCBA) can be used according to the extent of spill and
possible or anticipated. Respiratory protection : A half or full-face respirator with filter(s) for organic vapours (and when applicable

APAR Industries Limited (Petroleum Specialities FZE)	Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)		
Prevent product from entering sewers, rivers or other bodies o earth, sand or similar non-combustible materials. In case of soil treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), cor equipment. Collect spilled product by absorbing with specific If possible, large spillages in open waters should be containe means. If this is not possible, control the spreading of the spil other suitable mechanical means. The use of dispersants shou approved by local authorities.	f water. If necessary dike the product with dry contamination, remove contaminated soil and ntain product with floating barriers or other floating absorbents. ed with floating barriers or other mechanical lage, and collect the product by skimming or		
ontainment			
Large spillages may be cautiously covered with foam, if availab water jet. When inside buildings or confined spaces, ensure ac	Stop leak if without risk. Absorb spilled product with suitable non-combustible materials. Large spillages may be cautiously covered with foam, if available, to limit vapour cloud formation. Do not use water jet. When inside buildings or confined spaces, ensure adequate ventilation. Transfer collected product and other contaminated materials to suitable containers for recovery or safe disposal.		
	See Section 8 for information on appropriate personal protective equipment.		
STORAGE			
accumulate in the workplaces and should never be kept insid should be prohibited in areas where this material is handled, s after handling. Change contaminated clothes at the end of wo	le the pockets. Eating, drinking and smoking tored and processed. Wash hands thoroughly		
Storage area layout, tank design, equipment and operating	uld be designed with adequate bunds in case ernal structure of storage tanks must be done		
Store separately from oxidising agents. Recommended materials for containers, or container linings Some synthetic materials may be unsuitable for containers or specification and intended use. Compatibility should be check Keep only in the original container or in a suitable container for closed and sealed until ready for use. Do not store in unlab opened must be carefully resealed and kept upright to pre-	container linings depending on the material ed with the manufacturer. or this kind of product. Keep container tightly pelled containers. Containers that have been		
	APAR Industries Limited (Petroleum Specialities FZE) Prevent product from entering sewers, rivers or other bodies of earth, sand or similar non-combustible materials. In case of soil treat in accordance with local regulations. In case of small spillages in closed waters (i.e. ports), cor- equipment. Collect spilled product by absorbing with specific if possible, large spillages in open waters should be contains means. If this is not possible, control the spreading of the spil other suitable mechanical means. The use of dispersants shoul approved by local authorities. ontainment Stop leak if without risk. Absorb spilled product with suitable me Large spillages may be cautiously covered with foam, if availab water jet. When inside buildings or confined spaces, ensure at and other contaminated materials to suitable containers for rect see Section 1 for emergency contact information. See Section 8 for information on appropriate personal protect is See Section 13 for additional waste treatment information. FUNCAGE Fional Ensure that proper housekeeping measures are in place. Con accumulate in the workplaces and should never be kept inside should be prohibited in areas where this material is handled, s after handling. Change contaminated clothes at the end of wo information on hygiene measures. Storage area layout, tank design, equipment and operating regional, national or local legislation. Storage installations should of leaks or spills. Cleaning, inspection and maintenance of int only by properly equipped and qualified personnel as defined Store separately from oxidising agents. Recommended materials for containers, or container linings Some synthetic materials for container, or in a suitable containers or specification and intended us		

Recommendations Industrial sector specific solutions

SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Not available

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 Product/Ingredient name Exposure limits values Oil mist [Air contaminant] AFS 2011:18 (Sweden, 12/2011). TWA: 1 mg/m³ 8 hours. Form: mist and fume STEL: 3 mg/m³ 15 minutes. Form: mist and fume



Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)

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 monitoring standards, such as the following: European Standard EN 689 (Workplace atmospheres - Guidance for the assessment of exposure by inhalation to chemical agents for comparison with limit values and measurement strategy) European Standard EN 14042 (Workplace atmospheres - Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents) European Standard EN 482 (Workplace atmospheres - General requirements for the performance of procedures for the measurement of chemical agents) Reference to national guidance documents for methods for the determination of hazardous substances will also be required. 8.2 Exposure Control Mechanical ventilation and local exhaust will reduce exposure via the air. Use oil resistant material in construction of handling equipment. Store under recommended conditions and if heated, temperature control Appropriate engineering equipment should be used to avoid overheating. Controls Individual protection measures Wash hands, forearms and face thoroughly after handling chemical products, Hygiene measures before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse. Eye/face protection Recommended: Safety glasses with side shields. Skin protection Hand protection 4 - 8 hours (breakthrough time): nitrile rubber Body protection Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working Other skin protection shift. 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. Respiratory protection 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. Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. 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, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES

Appearance	
Physical state	Liquid
Color	Colorless to Light yellow
Odor	Odorless
Odour threshold	Not available
рН	Not applicable
Melting point/Pour point	< -40°C (ASTM D-97)
Flash point	> 140°C Pensky-Martens (ASTM D 93)
Evaporation rate	Not available
Flammability (solid, gas)	Not available
Flammability limits in air,	Not available
lower, % by volume	
Flammability limits in air,	Not available
upper, % by volume	
Vapour pressure	Not available
Density	0.910 max at 15°C
Solubility(ies)	
Solubility (water)	Insoluble in water
Partition coefficient	Not available
(n-octanol/water)	
Decomposition temperature	No Data
Auto-ignition temperature	> 250°C
Viscosity, Kinematic at 40°C (104°F)	0.08 cm ² /s to 0.11 cm ² /s (8.00 to 11.00 cSt)
Explosive properties	No Data
Oxidising properties	No Data
DMSO extractable compounds for base oil	< 3%
substance(s) according to IP346	



 10.1 Reactivity 10.2 Chemical stability 10.3 Possibility of hazardous Reactions 10.4 Conditions to avoid 10.5 Incompatible materials 10.6 Hazardous decomposition products 	No specific test data related to reactivity available for this product or its ingredients. Stable under normal conditions Under normal conditions of storage and use, hazardous reactions will not occur. Oxidising agent. Keep away from extreme heat and oxidizing agents. Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates, gases, including carbon monoxide, H2S, SOx (sulfur oxides) or sulfuric acid and unidentified organic and inorganic compounds.
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11.1 Information on toxicological

effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillate (petroleum),hydrotreated Light	LC50 Inhalation Dusts and mists	Rat	>5.53 mg/l	4 hours
paraffinic	LD50 Dermal	Rabbit	>5000 mg/kg	4 nours
paramine	LD50 Oral	Rat	>5000 mg/kg	-
Irritation/Corrosion			3, 3	
Skin	No known significant effects or critical	hazards.		
Еуе	No known significant effects or critical	hazards.		
Respiratory	No known significant effects or critical	hazards.		
<u>Sensitisation</u>				
Skin	No known significant effects or critical			
Respiratory	No known significant effects or critical			
Mutagenicity	No data available to indicate product o	r any components pres	ent at greater than 0.1%	are mutagenic or
Carcinogenicity	genotoxic.			
	The base oil(s) in this product is base	d on an severely hydro	ofreated distillate. The	product should not k
Reproductive toxicity		regarded as a carcinogen.		
Specific target organ toxicity	Contains no ingredient listed as toxic to reproduction.			
- single exposure	Not classified	Not classified		
Specific target organ toxicity				
- repeated exposure	Not classified			
Aspiration hazard				
Information on likely routes of exposure	Aspiration hazard - Category 1			
Potential acute health effects	Not available.			
Eye contact				
Inhalation	Eye contact may cause redness and tra	nsient pain.		
Skin contact	Inhalation of oil mist or vapours at elev	ated temperatures may	cause respiratory irritati	on.
Ingestion	No known significant effects or critical hazards.			
Potential chronic health effects	May be fatal if swallowed and enters ai			
General	.,	,		
Carcinogenicity	No known significant effects or critical	hazards.		
Carcinogenicity	The base oil(s) in this product is based		eated distillate. The prov	duct should not be
	regarded as a carcinogen.		salea disiliale. The pro-	
Mutagenicity	No known significant effects or critical	hazarda		
Teratogenicity	•			
Product/ingredient name	No known significant effects or critical			
Fertility effects	No known significant effects or critical	hazards.		



Other information Specific hazard Endocrine disrupting properties

APAR Industries Limited (Petroleum Specialities FZE)

No known significant effects or critical hazards. Not available.

Not listed

Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU)

SECTION 12 ECOLOGICAL INFORMATION

12.1 Toxicity	Not expected to be harmful to aquatic organisms.
12.2 Persistence and degradability	Inherently biodegradable.
12.3 Bioaccumulative potential	Bioaccumulation is unlikely to be significant because of the low water solubility of this product.
12.4 Mobility in soil	Not considered mobile.
12.5 Results of PBT & vPvB Assessment	Not applicable.
12.6 Endocrine disrupting properties	Not listed
12.7 Other adverse effects	Insoluble in water. Spills may form a film on water surfaces causing physical damage to organisms. Oxygen transfer could also be impaired.

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-speci	ific information provided in the Exposure Scenario(s).		
13.1 Waste treatment methods	13.1 Waste treatment methods		
<u>Product</u>			
Methods of disposal	Where possible (e.g. in the absence of relevant contamination), recycling of used substance is feasible and recommended. This substance can be burned or incinerated, subject to national/local authorizations, relevant contamination limits, safety regulations and air quality legislation. Contaminated or waste substance (not directly recyclable): Disposal can be carried out directly, or by delivery to qualified waste handlers. National legislation may identify a specific organization, and/or prescribe composition limits and methods for recovery		
Hazardous waste	or disposal.		
	Yes		
SECTION 13 DISPOSAL CONSIDERATIONS			
European waste catalogue (EWC)			



Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by **Commission Regulation (EU)**

Waste code Waste designation 13 03 07*

Packaging

Methods of disposal

mineral-based non-chlorinated insulating and heat transmission oils

The generation of waste should be avoided or minimized wherever possible. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible.

SECTION 14 TRANSPORT INFORMATION

International transport regulations

	ADR/ RID	ADN	IMO/IMDG Classification	ICAO/IATA Classification
14.1 UN number	Not regulated.	Not regulated.	Not regulated.	Not regulated.
14.2 UN proper shipping name	-	-	-	-
14.3 Transport hazard class(es)	-	-	-	-
14.4 Packing group	-	-	-	-
14.5 Environmental hazards	No	No	No	No
Additional information	-	-	-	-

14.6 Special precautions for User

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

14.7 Transport in bulk according to Annex I of MARPOL

73/78 and the IBC Code

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
Annex XIV	None of the components are listed.
Substances of very high concern	None of the components are listed.
Annex XVII - Restrictions on the	Not applicable.
manufacture, placing on the market and	
use of certain dangerous substances,	
mixtures and articles	
Other EU regulations	
<u>Seveso D</u>	This product is not controlled under the Seveso Directive.

Oils

International Lists National Inventory **Inventory** name

On inventory (yes/no)*



APAR Industries Limited

(Petroleum Specialities FZE)

Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by **Commission Regulation (EU)**

Australia Australian Inventory of Chemical Substances (AICS)	Yes
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Canada Domestic Substances List (DSL)	Yes
Canada Non-Domestic Substances List (NDSL)	No
China Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe European Inventory of Existing Commercial Chemical Substances (EINEC	CS) Yes
Europe European List of Notified Chemical Substances (ELINCS)	No
Japan Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea Existing Chemicals List (ECL)	Yes
New Zealand New Zealand Inventory	Yes
Philippines Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes
United States & Puerto Rico Toxic Substances Control Act (TSCA) Inventory	Yes
*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the g	overning country(s)

A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

15.2 Chemical Safety Assessment Complete

SECTION 16 OTHER INFORMATION		
Revision comments	Not available.	
Legend to abbreviations		
ADR	European agreement concerning the international carriage of dangerous good by road.	
RID	Regulations agreement concerning the international carriage of dangerous good by rail.	
IMDG – CODE	International maritime dangerous goods code.	
ICAO	International Civil Aviation Organization.	
IATA	International air transport association.	
GHS	Globally Harmonized System of Classification and Labeling of Chemicals.	
CLP	Classification, Labelling and Packaging Regulation [Regulation (EC) No.1272/2008].	
SCBA	Self-Contained Breathing Apparatus.	
REACH	Registration, Evaluation, Authorization and Restriction of Chemicals Regulation [Regulation (EC)	
	No. 1907/2006].	
LC 50	Median lethal concentration.	
LD 50	Median lethal dose.	
PBT	Persistent, Bioaccumulative and Toxic.	
Procedure used to derive the c	lassification according to Regulation (EC) No. 1272/2008 [CLP/GHS]	

Classification		Justification
Asp. Tox. 1, H304		Calculation method
Full text of abbreviated H statements	H304 May be fatal if swallowed and enters airways.	
Full text of classifications [CLP/GHS]	Asp. Tox. 1, H304 ASPIRATION HAZARD - Category 1.	
Date of issue/Date of revision	1 st January 2024	
Date of previous issue	-	
Version	01	
		

Disclaimer

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used in combination with any other materials or in any process, unless specified in the text.