

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

1.1	Product Identifier	
	Product name	Transformer oil POWEROIL <sup>®</sup> TO 1020 60 SNX
	Product description	Insulating oil
	Product type	Liquid
	MARPOL Annex- I	Oils
1.2	Identified uses Distribution of substance	Industrial
	Formulation & (re)packing of substances and mixtures Manufacture of substance Functional Fluids	Industrial Industrial Industrial
1.3	Details of the supplier of the safet	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)**

Mixture	
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3.2 Mixtures	Mixture			
Product/Ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
Distillate (petroleum), Severely hydrotreated	EC: 265-156-6	99.60 -	Asp. Tox. 1, H304	[1]
light Naphthenic Oil.	CAS: 64742-53-6	99.92		
2,6 –Di-tert-Butyl-P-Cresol	CAS: 128-37-0		Aquatic Acute 1, H400	[1]
	EC : 204-881-4	0.08 - 0.4	Aquatic Chronic 1, H410	

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. Type

[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

4.1 Description of first aid measures	
Eye contact	Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If irritation, blurred vision or swelling occurs and persists, obtain medical advice from a specialist.
Inhalation	If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. If 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
Skin contact	are severe. Maintain an open airway. Wash with soap and water. Remove contaminated clothing and shoes. Handle with care and dispose of in a 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.
Ingestion	Always assume that aspiration has occurred. Do not induce vomiting. Can enter lungs and cause damage. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Seek professional 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	ects, both acute and delayed
Potential acute health effects	
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.
4.3 Indication of any immediate media	al attention and special treatment needed
Notes to physician	Due to low viscosity there is a risk of aspiration if the product enters the lungs. Treat symptomatically.
Specific treatments	Always assume that aspiration has occurred.
SECTION 5 FIRE FIGHTING MEASU	RES



### 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 (CO<sub>2</sub>). 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

For non-emergency personnel	Avoid breathing vapour or mist. Keep non-involved personnel away from the area of spillage. Alert emergency
0 , 1	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 emergency responders	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.
	, 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 predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficiency is
	possible, only SCBA's should be used.

Tomorrow's solutions today	APAR Industries Limited (Petroleum Specialities FZE)	Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by
6.2 Environmental precautions	earth, sand or similar non-combustible materials. In c treat in accordance with local regulations. In case of small spillages in closed waters (i.e. p equipment. Collect spilled product by absorbing with If possible, large spillages in open waters should b means. If this is not possible, control the spreading	<b>Commission Regulation (EU)</b> er bodies of water. If necessary dike the product with dry case of soil contamination, remove contaminated soil and ports), contain product with floating barriers or other th specific floating absorbents. De contained with floating barriers or other mechanical of the spillage, and collect the product by skimming or resants should be advised by an expert, and, if required,
6.3 Methods and material for con	tainment	
and cleaning up		
Small spill Large spill		, if available, to limit vapour cloud formation. Do not use , ensure adequate ventilation. Transfer collected product
6.4 Reference to other sections	See Section 1 for emergency contact information. See Section 8 for information on appropriate person See Section 13 for additional waste treatment inform	
SECTION 7 HANDLING AND S	TORAGE	
7.1 Advice on general occupatior hygiene Storage	accumulate in the workplaces and should never be should be prohibited in areas where this material is h	place. Contaminated materials should not be allowed to kept inside the pockets. Eating, drinking and smoking handled, stored and processed. Wash hands thoroughly end of working shift. See also Section 8 for additional
7.2 Conditions for safe storage, including any incompatibilities	Storage area layout, tank design, equipment and regional, national or local legislation. Storage installa of leaks or spills. Cleaning, inspection and maintena	operating procedures must comply with the relevant ations should be designed with adequate bunds in case ance of internal structure of storage tanks must be done as defined by national, local or company regulations.
7.3 Specific end use(s)	Some synthetic materials may be unsuitable for con specification and intended use. Compatibility should Keep only in the original container or in a suitable of closed and sealed until ready for use. Do not stor opened must be carefully resealed and kept uprig harmful, flammable/combustible or explosive reside dispose of containers unless adequate precautions a from sunlight.	er linings use mild steel, stainless steel. Not suitable : ntainers or container linings depending on the material d be checked with the manufacturer. container for this kind of product. Keep container tightly re in unlabelled containers. Containers that have been ght to prevent leakage. Empty containers may contain ue or vapours. Do not cut, grind, drill, weld, reuse or are taken against these hazards. Store locked up. Protect
Recommendations Industrial sector specific solution	Not available Not available	

Industrial sector specific solutions
SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

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
Distillate (petroleum), hydrotreated light naphthenic	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m <sup>3</sup> 8 hours. Form: mist and fume
	STEL: 3 mg/m <sup>3</sup> 15 minutes. Form: mist and fume
Oil mist	[Air contaminant]
	AFS 2015:7 (Sweden, 12/2015). TWA: 1 mg/m <sup>3</sup> 8 hours. Form: mist and fume
	STEL: 3 mg/m <sup>3</sup> 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 <sup>2</sup> /s to 0.11 cm <sup>2</sup> /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	



SECTION 10 STABILITY AND REA	ACTIVITY			
10.1 Reactivity	No specific test data related to reactivit	y available for this pro	duct or its ingredients.	
10.2 Chemical stability	Stable under normal conditions			
10.3 Possibility of hazardous	Under normal conditions of storage and	d use, hazardous react	ions will not occur.	
Reactions	Oxidising agent.			
10.4 Conditions to avoid	Keep away from extreme heat and oxid		ure of eirborne colid one	liquid porticulator
10.5 Incompatible materials	Incomplete combustion is likely to give gases, including carbon monoxide, H2			
	inorganic compounds.			enimed organic and
10.6 Hazardous decomposition				
products SECTION 11 TOXICOLOGICAL IN	FORMATION			
11.1 Information on toxicological				
effects				
Acute toxicity				
	Result	Specie	Dese	Evinesure
Product/ingredient name Distillate (petroleum), hydrotreated Light	LC50 Inhalation Dusts and mists	Species Rat	Dose >5.53 mg/l	Exposure 4 hours
naphthenic	LC50 Innalation Dusts and mists	Rat Rabbit	>5.53 mg/1 >5000 mg/kg	4 nours -
парпплетис	LD50 Oral	Rabbii	>5000 mg/kg	-
2,6-di-tert-butyl-p-cresol	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Rat	>5000 mg/kg	-
Irritation/Corrosion				1
Skin	No known significant effects or critical	hazards.		
Eye	No known significant effects or critical			
Respiratory	No known significant effects or critical			
Sensitisation				
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	sent at greater than 0.1%	are mutagenic or
Carcinogenicity	genotoxic.			
	The base oil(s) in this product is base	d on an severely hydr	otreated distillate. The p	product should not be
Reproductive toxicity	regarded as a carcinogen.			
Specific target organ toxicity	Contains no ingredient listed as toxic to	reproduction.		
- single exposure	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 trai	nsient pain.		
Skin contact	Inhalation of oil mist or vapours at eleva	•	cause respiratory irritation	on.
Ingestion	No known significant effects or critical		······	
•	May be fatal if swallowed and enters ai			
<u>Potential chronic health effects</u> General				
	No known significant effects or critical	hazards		
Carcinogenicity	-		astad distillata The are -	luct should not be
	The base oil(s) in this product is based	on an severely hydrofr	earea aistiliate. The proc	iuci snoula not be
Mutagenicity	regarded as a carcinogen.			
		No known significant effects or critical hazards.		
Teratogenicity	No known significant effects or critical No known significant effects or critical			



Fertility effects Other information Specific hazard Endocrine disrupting properties

# APAR Industries Limited (Petroleum Specialities FZE)

No known significant effects or critical hazards. No known significant effects or critical hazards. Not available.

Not listed

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### **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	Not applicable.
Assessment	
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-specific information provided in the Exposure Scenario(s).

# **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

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 or disposal. Yes

# SECTION 13 DISPOSAL CONSIDERATIONS

Hazardous waste



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

### European waste catalogue (EWC)

Methods of disposal

Waste code	Waste designation	
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils	
Packaging		

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 bulkaccording to Annex I of MARPOL73/78 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			
Seveso D	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)**

		-1
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
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 (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Когеа	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 component	nts of this product comply with the inventory requirements administered by the governing 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 classification 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 ASPIRA	TION HAZARD - Category 1.
Date of issue/Date of revision	1 <sup>st</sup> January 2024	
Date of previous issue	-	
Version	01	
<b>D</b> <sup>1</sup>		

### Disclaimer

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