

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

1.1 Product Identifier	
Product name	ARKOS HYRAULIK (ISO VG 68 )
Product description	Hydraulic 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	he safety data sheet
Supplier/Manufacturer	APAR Industries Limited 18 T.T.C., M.I.D.C. Industrial Area , Thane Belapur Road , Rabale, Navi Mumbai – 400701. India. +91 22 61110444 (Office hours 9.30am to 17.00pm) www.apar.com
e- mail address of person responsible for this SDS	hse@apar.com
1.4 Emergency telephone nur	nber +91 9833811132

### SECTION 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

#### Product definition

Classification according to Regulation (EC) No. 1272/2008 [CLP/GHS]

Mixture

Asp. Tox. 1, H304

Signal word

Hazard statements Precautionary statements

Prevention

Response

Storage

Disposal

The product is classified as hazardous according to Regulation (EC) 1272/2008 as amended.

See Section 16 for the full text of the H statements declared above.

### 2.2 Label elements

Hazard pictograms



H 304 : May be fatal if swallowed and enters airways.

Not applicable

P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician. Do NOT induce vomiting.
P405 - Store locked up.
P501 - Dispose of contents/container in accordance with all local, regional, national and international regulations.
Not applicable

Annex XVII - Restrictions on the manufacture, 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



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SECTION 3 COMPOSTION/ INFOR	MATION ON INGREE	DIENTS		
3.2 Mixtures	Mixture			
Product/Ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
LUBRICATING OIL ( PETROLEUM),C24-50, SOLVENT -EXTD. DEWAXED	CAS: 101316-72-7	99	Asp. Tox. 1, H304	[1]
HYDROGENATED.	CAS: 68649-42-3 (Proprietary)			
(Additive)		0.50	Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]
Zinc dialkyl dithiophosphate Alkyl phenol			Skin Irrit. 2, H315	

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

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ater for several minutes. Remove contact lenses, if present and easy to do. Continue red vision or swelling occurs and persists, obtain medical advice from a specialist. emove victim to fresh air and keep at rest in a position comfortable for breathing. If
and: If not breathing, if breathing is irregular or if respiratory arrest occurs, provide oxygen by trained personnel. Get medical attention if adverse health effects persist or an open airway.
ter. Remove contaminated clothing and shoes. Handle with care and dispose of in a idical attention if skin irritation, swelling or redness develops and persists. re injection through the skin requires immediate medical attention. Do not wait for
biration has occurred. Do not induce vomiting. Can enter lungs and cause damage. If ead should be kept low so that vomit does not enter the lungs. Seek professional and the casualty to a hospital. Do not wait for symptoms to develop. mouth to an unconscious person. If unconscious, place in recovery position and get diately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or
n involving any personal risk or without suitable training. It may be dangerous to the o give mouth-to-mouth resuscitation. escue casualties, isolate area from all potential sources of ignition including
supply. Ensure adequate ventilation and check that a safe, breathable atmosphere into confined spaces.

#### 4.2 Most important symptoms and effects, 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 medical 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 MEAS	URES
5.1 Extinguishing media	
Suitable extinguishing media	Dry chemicals. Foam. Carbon dioxide (CO <sub>2</sub> ). Water spray or foam.
Unsuitable extinguishing media	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.
5.2 Special hazards arising from the s	ubstance or mixture
Hazards from the substance	In a fire or if heated, a pressure increase will occur and the container may burst.
or mixture	This substance will float and can be reignited on surface water.
Hazardous thermal	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates
decomposition products	gases, including carbon monoxide, H2S, SOx (sulfur oxides) or sulfuric acid and unidentified organic an inorganic compounds.
5.3 Advice for firefighters	
Special precautions for firefighters	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.
Special protective equipment for fire-fighters	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 RELEAS	SE MEASURES
6.1 Personal precautions, protective e	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 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. Worl
	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 applicab 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 deficience is possible, only SCBA's should be used.
6.2 Environmental precautions	Prevent product from entering sewers, rivers or other bodies of water. If necessary dike the product with dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminated soil and treat in accordance with local regulations.
	In case of small spillages in closed waters (i.e. ports), contain product with floating barriers or other equipment. Collect spilled product by absorbing with specific floating absorbents.
	If possible, large spillages in open waters should be contained with floating barriers or other mechanical means. If this is not possible, control the spreading of the spillage, and collect the product by skimming or other suitable mechanical means. The use of dispersants should be advised by ar



### 6.3 Methods and material for containment

and cleaning up	
Small spill Large spill	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.
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.
SECTION 7 HANDLING AND STO	RAGE
7.1 Advice on general occupational hygiene Storage	Ensure that proper housekeeping measures are in place. Contaminated materials should not be allowed to accumulate in the workplaces and should never be kept inside the pockets. Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Wash hands thoroughly after handling. Change contaminated clothes at the end of working shift. See also Section 8 for additional information on hygiene measures.
7.2 Conditions for safe storage, including any incompatibilities	Storage area layout, tank design, equipment and operating procedures must comply with the relevant regional, national or local legislation. Storage installations should be designed with adequate bunds in case of leaks or spills. Cleaning, inspection and maintenance of internal structure of storage tanks must be done only by properly equipped and qualified personnel as defined by national, local or company regulations.
SECTION 7 HANDLING AND STOR	AGE
<ul> <li>7.2 Conditions for safe storage, including any incompatibilities</li> <li>7.3 Specific end use(s) Recommendations Industrial sector specific solutions</li> </ul>	Store separately from oxidising agents. Recommended materials for containers, or container linings use mild steel, stainless steel. Not suitable : Some synthetic materials may be unsuitable for containers or container linings depending on the material specification and intended use. Compatibility should be checked with the manufacturer. Keep only in the original container or in a suitable container for this kind of product. Keep container tightly closed and sealed until ready for use. Do not store in unlabelled containers. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Empty containers may contain harmful, flammable/combustible or explosive residue or vapours. Do not cut, grind, drill, weld, reuse or dispose of containers unless adequate precautions are taken against these hazards. Store locked up. Protect from sunlight. Not available Not available

### 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
Distillates (petroleum), Hydro treated Heavy Naphthenic	AFS 2015:7 (Sweden, 12/2015).
	TWA: 1 mg/m <sup>3</sup> 8 hours. Form: mist and fume
Oil mist	STEL: 3 mg/m <sup>3</sup> 15 minutes. Form: mist and fume
	[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



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
8.2 Exposure Control Appropriate engineering Controls	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. 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 equipment should be used to avoid overheating.
Individual protection 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. Ensure that
Hygiene measures	eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse. Recommended: Safety glasses with side shields.
Eye/face protection	
Skin protection	4 - 8 hours (breakthrough time): nitrile rubber
Hand protection Body protection	Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of
Body protection	working shift. Appropriate footwear and any additional skin protection measures should be selected based on the
Other skin protection	task being performed and the risks involved and should be approved by a specialist before handling
	this product. Respirator selection must be based on known or anticipated exposure levels, the hazards of the
Respiratory protection	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. 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
Environmental exposure controls	modifications to the process equipment will be necessary to reduce emissions to acceptable levels.
SECTION 9 PHYSICAL AND CHEM	
Appearance	Clear
Physical state	Liquid
Color	Yellow
Odor Odovr thread ald	Petroleum odor
Odour threshold	Not available
pH Malting point/Dour point	
Melting point/Pour point Flash point	> -9°C (ASTM D-97) >210°C ,COC (ASTM D 92)
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	≤ 0,1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE, 2010
Density	0.875 max at 15°C
Solubility(ies)	
Solubility (water)	Insoluble in water
Partition coefficient	Not available
(n-octanol/water)	
Decomposition temperature	No Data
	> 300°C
	> 300 C
Auto-ignition temperature	68 mm²/s (40 °C) (ASTM D 445)
Auto-ignition temperature Viscosity, Kinematic at 40°C (104°F) Explosive properties	
Auto-ignition temperature Viscosity, Kinematic at 40°C (104°F)	68 mm²/s (40 °C) (ASTM D 445)
Auto-ignition temperature Viscosity, Kinematic at 40°C (104°F) Explosive properties	68 mm²/s (40 °C) (ASTM D 445) No Data

< 3%

substance(s) according to IP346



SECTION 10 STABILITY AND REACTIVITY		
10.1 Reactivity	No specific test data related to reactivity available for this product or its ingredients.	
10.2 Chemical stability	Stable under normal conditions	
10.3 Possibility of hazardous	Under normal conditions of storage and use, hazardous reactions will not occur.	
Reactions	Oxidising agent.	
	Keep away from extreme heat and oxidizing agents.	
10.4 Conditions to avoid	Incomplete combustion is likely to give rise to a complex mixture of airborne solid and liquid particulates,	
10.5 Incompatible materials	gases, including carbon monoxide, H2S, SOx (sulfur oxides) or sulfuric acid and unidentified organic and	
10.6 Hazardous decomposition products	inorganic compounds.	

## SECTION 11 TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
U	LC50 Inhalation Dusts and mists	Rat	>2.18 mg/l	4 hours
Distillate (petroleum), hydrotreated Heavy	LD50 Dermal	Rabbit	>5000 mg/kg	-
paraffinic oil	LD50 Oral	Rat	>15000 mg/kg	-
Irritation/Corrosion				
Skin	No known significant effects or critical haza			
Eye	No known significant effects or critical haza			
Respiratory Sensitisation	No known significant effects or critical haza	ards.		
Skin	No known significant effects or critical haza	ards.		
Respiratory	No known significant effects or critical haza	ards.		
Mutagenicity	No data available to indicate product or any	y components preser	nt at greater than 0.1	% are mutagenic or
	genotoxic.			
SECTION 11 TOXICOLOGICAL IN	FORMATION			
Carcinogenicity	The base oil(s) in this product is based on	an severely hydrotrea	ated distillate. The p	roduct should not be
	regarded as a carcinogen.			
Reproductive toxicity	Contains no ingredient listed as toxic to rep	production.		
Specific target organ toxicity	Not classified			
- single exposure				
Specific target organ toxicity	Not classified			
- repeated exposure				
Aspiration hazard	Aspiration hazard - Category 1			
Information on likely routes of exposure Potential acute health effects	Not available.			
Eye contact	Eye contact may cause redness and transi	ent pain.		
Inhalation	Inhalation of oil mist or vapours at elevated te	emperatures may caus	se respiratory irritation	I.
Skin contact	No known significant effects or critical hazards.			
Ingestion	May be fatal if swallowed and enters airways.			
Potential chronic health effects				
General	No known significant effects or critical haza	ards.		
Carcinogenicity	The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be			
	regarded as a carcinogen.			
Mutagenicity	No known significant effects or critical haza	ards.		
Teratogenicity	No known significant effects or critical haza	ards.		
Product/ingredient name	No known significant effects or critical haza	ards.		
Fertility effects	No known significant effects or critical haza	ards.		



Other information	Not available.
Specific hazard	
SECTION 12 ECOLOGICAL INFO	DRMATION
12.1 Toxicity	Not expected to be harmful to aquatic organisms.
12.2 Persistence and degradability	Not 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 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.

#### **CTION 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).

Yes

#### 13.1 Waste treatment methods

Product

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 or disposal.

#### Hazardous waste

SECTION 13 DISPOSAL (	CONSIDERATIONS
European waste catalogue (EWC)	
Waste code	Waste designation
13 03 07*	mineral-based non-chlorinated insulating and heat transmission oils
Packaging	
Methods of disposal	The generation of waste should be avoided or minimised 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

Transport within user's premises: always transport in closed containers that are upright and secure. Ensure

User

that persons transporting the product know what to do in the event of an accident or spillage.

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

SECTION 15 REGULATORY INFORMATION

Oils



15.1 Safety, health and environme EU Regulation (EC) No. 1907/2006 (REA	ntal regulations/legislation specific for the substance or mixture CH)	
Annex XIV - List of substances subject to		
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.	
International Lists	Inventory name	On inventory (yes/no)*
National Inventory		
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
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 governing	country(s)

"A "Yes" indicates that all components 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

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.	
ΙΑΤΑ	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, Authorisation 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> October 2020.	
Date of previous issue	January 2019	
Version	02	
Disclaimer		

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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