

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

1.1 Product Identifier

ARKOS SLIK MP 3 **Product name**

GREASE **Product description** Thick Paste Product type

1.2 Identified uses

Distribution of substance Formulation & (re)packing of substances and mixtures Manufacture of substance

Functional Fluids

Industrial Industrial

Industrial

1.3 Details of the supplier of the safety data sheet

APAR Industries Limited Supplier/Manufacturer

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

hse@apar.com

1.4 Emergency telephone number

e- mail address of person

responsible for this SDS

+91 9833811132

SECTION 2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Product definition Mixture

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

Asp. Tox. 1, H304

This product is not classified as dangerous according to Directive 1999/45/EC and its amendments.

See sections 11 and 12 for more detailed information on health effects, symptoms and environmental hazards

2.2 Label elements

Hazard pictograms

Signal word

No Signal Word Hazard statements

No known significant effects or critical hazards Precautionary statements

Not applicable Prevention Not applicable Response

Not applicable

Not applicable Safety Data Sheet available on request Storage

Not applicable Disposal Not applicable

2.3 Other hazards

Defatting to the skin

Note: High Pressure Applications Injection through the skin resulting from contact with the product at high pressure constitutes a major medical emergency. Refer Notes to physician'

under First-Aid Measures, under Section 4 of this Safety Data Sheet

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SECTION 3 COMPOSTION/ INFORMATION ON INGREDIENTS

3.2	Mixtures	Mixtur
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Product/Ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
Residual oils (petroleum), solvent refined	CAS: 64742-01-4	≥25 - ≤50	%weight	[1]
Distillates (petroleum), hydrotreated heavy naphthenic	CAS: 64742-52-5	≥25 - ≤50	Not classified	[2]
Distillates (petroleum), solventdewaxed heavy paraffinic	CAS: 64742-65-0	≥10 - ≤25	Not classified	
Phosphorodithioic acid, mixed O,O-bis (2-ethylhexyl and iso-Bu and iso-Pr) esters, zinc salts	CAS: 85940-28-9	<2.5	Skin Irrit, Eye Irrit, Aquatic Chronic.	[3]

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 PvBs 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

Inhalation

Skin contact

SECTION 4 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. 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 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.

waistband.

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.

Ingestion

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

No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person

No action sind be taken involving any personal risk of without suitable training. It may be usingerous to the personal risk of without suitable training. It may be usingerous to the personal risk of without suitable training.

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 effects, both acute and delayed

Potential acute health effects

Protection of first-aiders

Eye contact Eye contact may cause redness and transient pain.

Inhalation Inhalation of oil mist or vapors 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.

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Specific treatments Always assume that aspiration has occurred.

SECTION 5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Dry chemicals. Foam. Carbon dioxide (CO₂). 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 substance 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 and

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 RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel Avoid breathing vapor 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 vapors 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.

6.2 Environmental precautionsPrevent 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.

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 an expert, and, if required,

Approved by local authorities.

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6.3 Methods and material for containment and cleaning up

Small spill

Stop leak if without risk. Absorb spilled product with suitable non-combustible materials.

Large spill

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 STORAGE

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 STORAGE

7.2 Conditions for safe storage, including any incompatibilities

Store separately from oxidizing 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 unlabeled 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 vapors. 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

7.3 Specific end use(s) Recommendations

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

No exposure limit value known

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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.

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.

8.2 Exposure Control
Appropriate engineering
Controls

Individual protection measures

Hygiene measures

Eye/face protection

<u>Skin protection</u>

Hand protection

Body protection

Other skin protection

Respiratory protection

Environmental exposure controls

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 eyewash stations and safety showers are close to the workstation location. Wash contaminated clothing before reuse. Recommended: Safety glasses with side shields.

4 - 8 hours (breakthrough time): nitrile rubber

Wear protective clothing if there is a risk of skin contact. Change contaminated clothes at the end of working 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.

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.

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 Soft thick paste
Physical state Grease
Color Amber
Odor Characteristic.
Odor threshold Not available

Odor threshold Not available pH Not available Melting point/Pour point 200°C (392°F)

Flash point Closed cup: >230°C (>446°F)

Evaporation rate Not available
Initial boiling point and boiling range Not available
Flammability (solid, gas) Upper/lower Not available
flammability or explosive limits Not available

Vapour pressure

Solubility(ies)

Solubility (water)

Partition coefficient (n-octanol/water)

Decomposition temperature Auto-ignition temperature Viscosity Explosive properties

Other information

Oxidizing properties

Not available

Insoluble in water

Not available

Not available >300°C (>572°F) Not available Not available

No additional information.

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SECTION 10 STABILITY AND REACTIVITY

No specific test data available for this product. Refer to Conditions to avoid and Incompatible materials for 10.1 Reactivity

additional information.

10.2 Chemical stability Stable under normal conditions.

Under normal conditions of storage and use, hazardous reactions will not occur. 10.3 Possibility of hazardous

Reactions

Avoid all possible sources of ignition (spark or flame).

Reactive or incompatible with the following materials: oxidising materials. 10.5 Incompatible materials

10.6 Hazardous decomposition

products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Under normal conditions of storage and use, hazardous polymerisation will not occur.

SECTION 11 TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effect

Acute toxicity Not available

10.4 Conditions to avoid

Information on likely routes of exposure Routes of entry anticipated: Dermal, Inhalation

Potential acute health effects

No known significant effects or critical hazards. Inhalation Ingestion No known significant effects or critical hazards.

Skin contact Defatting to the skin. May cause skin dryness and irritation.

Eve contact No known significant effects or critical hazards.

Symptoms related to the physical, chemical and

toxicological characteristics

Inhalation No specific data. Ingestion No specific data.

Skin contact Adverse symptoms may include the following:

irritation dryness cracking

No specific data Eye contact

SECTION 11 TOXICOLOGICAL INFORMATION

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Inhalation Inhalation of oil mist or vapours at elevated temperatures may cause respiratory irritation.

Ingestion Ingestion of large quantities may cause nausea and diarrhoea.

Eye contact Potential risk of transient stinging or redness if accidental eye contact occurs

Potential chronic health effects

General No known significant effects or critical hazards. Carcinogenicity No known significant effects or critical hazards. Mutagenicity No known significant effects or critical hazards. **Developmental effects** No known significant effects or critical hazards. Fertility effects No known significant effects or critical hazards.

SECTION 12 ECOLOGICAL INFORMATION

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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 Not applicable.

Assessment

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.

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 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 Yes

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

 $recycled. \ In cineration \ or \ land fill \ should \ only \ be \ considered \ when \ recycling \ is \ not \ feasible.$

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.

14.7 Transport in bulk

Oils

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.

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None of the components are listed. Substances of very high concern

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 "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

Not available. **Revision comments**

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. International

IMDG - CODE 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. 1907/20061.

LC 50 Median lethal concentration.

LD 50 PBT Median lethal dose.

Procedure used to derive the classification acPersistent, Bio accumulative and Toxic. n (EC) No. 1272/2008

[CLP/GHS]

Classification Justification

Full text of abbreviated H statements Not Applicable Full

text of classifications [CLP/GHS] Not Applicable

Date of issue/Date of revision 1st October 2023. 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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