

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

1.1	Product Identifier	
	Product name	POWEROIL GEM LC 2
	Product description	GREASE
	Product type	Thick Paste
1.2	Identified uses	
	Distribution of substance Formulation & (re)packing of	Industrial
	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	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 number	+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]

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	
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



Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830.

3.2 Mixtures	Mixture			
Product/Ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
Lithium Hydroxide, Monohydrate	1310-66-3	< 3	Acute Tox.4 H302 Harmful if swallowed Skin Corr. 1B H314 Causes severe skin burns and eye damage	[1]
Zinc alkyl Dithiophosphate	68649-42-3	< 1.0	Aquatic Chronic 2 H411: Toxic to aquatic life with long lasting effects	[1]

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. <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

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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 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 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 person providing aid to give mouth-to-mouth resuscitation.
Protection of first-aiders	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	
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 immed	liate 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.



Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830.

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 fir
	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 particulate
decomposition products	gases, including carbon monoxide, H2S, SOx (sulfur oxides) or sulfuric acid and unidentified organic ar 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. N action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire fighters	
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCB, with a full face-piece operated in positive pressure mode. Clothing for fire-fighters (including helmet
	protective boots and gloves) conforming to European standard EN 469 will provide a basic level protection for chemical incidents.
SECTION 6 ACCIDENTAL RELEASE	
	equipment and emergency procedures
For non-emergency personnel	Avoid breathing vapor or mist. Keep non-involved personnel away from the area of spillage. Ale
	emergency personnel. Except in case of small spillages, the feasibility of any actions should always b
	assessed and advised, if possible, by a trained, competent person in charge of managing the emergence
	Stop leak if safe to do so. Avoid direct contact with the product. Stay upwind/keep distance from source.
	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 lin
	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
	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. Wo
	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 helme
	antistatic non-skid safety shoes or boots. Goggles and /or face shield, if splashes or contact with eyes
	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 a
	predictable amount of exposure. If the situation cannot be completely assessed, or if an oxygen deficien
	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 wi
	dry earth, sand or similar non-combustible materials. In case of soil contamination, remove contaminate
	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 oth
	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 mechanic
	means. If this is not possible, control the spreading of the spillage, and collect the product by skimming of
	other suitable mechanical means. The use of dispersants should be advised by an expert, and, if require
	approved by local authorities.



and cleaning up

6.3 Methods and material for containment

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 vapor 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 1 for emergency contact information. 6.4 Reference to other sections 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 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 hygiene Storage 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. Storage area layout, tank design, equipment and operating procedures must comply with the relevant 7.2 Conditions for safe storage, regional, national or local legislation. Storage installations should be designed with adequate bunds in case including any incompatibilities 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 Store separately from oxidizing agents. 7.2 Conditions for safe storage, Recommended materials for containers or container linings use mild steel, stainless steel. Not suitable : including any incompatibilities 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 7.3 Specific end use(s) Not available **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 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 8.2 Exposure Control construction of handling equipment. Store under recommended conditions and if heated, temperature Appropriate engineering control equipment should be used to avoid overheating. Controls

Wash hands, forearms and face thoroughly after handling chemical products,



Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830.

Individual protection measures	before eating, smoking and using the lavatory and at the end of the working period. Ensure that eyewash
Hygiene measures	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	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 task
Other skin protection	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
Respiratory protection	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 CH	HEMICAL PROPERTIES
Appearance	Soft thick paste
Physical state	Paste
Color	Shiny Bluish Green
Odor	Oily
Odor threshold	Not available
рН	Not applicable
Melting point/Pour point	Not available
Flash point	> 200°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	Not available
Density	0.92 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	Not Available
Viscosity, Kinematic at 40°C (104°F)	Not Applicable , NLGI GRADE -2
Explosive properties	No Data
Oxidizing properties	No Data

SECTION 10 STABILITY AND REACTIVITY

 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 	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. Oxidizing 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.
10.6 Hazardous decomposition products	

SECTION 11 TOXICOLOGICAL INFORMATION



11.1 Information on toxicological effects

Acute toxicity No exposure limit value known Irritation/Corrosion Skin No known significant effects or critical hazards. No known significant effects or critical hazards. Eye No known significant effects or critical hazards. Respiratory **Sensitisation** Skin No known significant effects or critical hazards. Respiratory No known significant effects or critical hazards. **Mutagenicity** No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic. SECTION 11 TOXICOLOGICAL INFORMATION Carcinogenicity The base oil(s) in this product is based on an severely hydrotreated distillate. The product should not be regarded as a carcinogen. Reproductive toxicity Contains no ingredient listed as toxic to reproduction. 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 Not available. Potential acute health effects 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. May be fatal if swallowed and enters airways. Ingestion Potential chronic health effects General No known significant effects or critical hazards. The base oil(s) in this product is based on an severely hydro treated distillate. The product should not be Carcinogenicity regarded as a carcinogen. No known significant effects or critical hazards. **Mutagenicity** No known significant effects or critical hazards. Teratogenicity No known significant effects or critical hazards. Product/ingredient name Fertility effects No known significant effects or critical hazards. Other information Not available. Specific hazard SECTION 12 ECOLOGICAL INFORMATION Not expected to be harmful to aquatic organisms. 12.1 Toxicity 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

Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830.

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

APAR Industries Limited

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 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 Seveso D This product is not controlled under the Seveso Directive.

Oils

International Lists

National Inventory

Inventory name

On inventory (yes/no)*



Safety Data Sheet Regulation (EC) No. 1907/2006 (REACH), Annex II, as amended by Commission Regulation (EU) 2015/830.

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			
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, Bio accumulative and Toxic.		
Procedure used to derive the classification according to Regulation (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	1 st October 2020.	
Date of previous issue	January 2020	
Version	01	
Disclaimer		

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