SAFETY DATA SHEET



GEAR OIL 75W90

Regulation (EC) No. 1907 / 2006

(REACH), Annex II, as amended by Commission Regulation (EU) 2015 / 830.

PRODUCT AND COMPANY IDENTIFICATION

MSDS Number: AF-SDS-071

Version Date: 20.08.2024

Product Name: GEAR OIL 75W90 Product Use: GEAR OIL 75W90 Synonyms: No information available

Company Information

Hitachi Astemo India Private Limited.

Formerly known as Hitachi Astemo Brake Systems India Private Limited

A606 & B606,6th Floor, International Convention Centre, MCCIA Trade Towers,

Senapati Bapat Road, Shivajinagar, Pune MH 411016 IN

2. COMPONENT INFORMATION

2.1 Mixtures Mixture

Product/Ingredient name	Identifiers	%	Classification Regulation (EC) No. 1272/2008 [CLP]	Туре
Distillate (petroleum), hydro treated Heavy Paraffinic, C24-50 Solvent Extd. Dewaxed Hydrogenated.	CAS: 64742-54-7, CAS:101316-72-7	15 - 25 75 - 85	Asp. Tox. 1, H304	[1]
Long chain Alkyl phosphate Long-chain alkenyl amine (Additive)	Proprietary CAS 68955-53-3	1-2,4	Skin Irrit. 2, H315 Eye Dam. 1, H318 Aquatic Chronic 2, H411	[1]

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

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

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

3. HAZARDS IDENTIFICATION Emergency and Hazards Overview

3.1 Classification of the substance or mixture

Product definition Mixture

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

Asp. Tox. 1. H304

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.



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(REACH), Annex II, as amended by Commission Regulation (EU) 2015 / 830.

3.2 Label elements Hazard pictograms



Signal word Danger

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

Precautionary statements

Prevention Not applicable

Response P301 + P310 + P331 - IF SWALLOWED: Immediately call a POISON CENTER or physician.

 $\label{eq:DoNOT} \mbox{Do NOT induce vomiting.}$

Storage P405 - Store locked up.

Disposal P501 - Dispose of contents/container in accordance with all local, regional, national and

international regulations.

Annex XVII - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles

Not applicable

3.3 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

4. FIRST AID INFORMATION

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 Inhalation casualty is unconscious and: If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. Get medical attention if adverse health effects persist or are severe. Maintain an

open airway.

Skin contact Wash with soap and water. Remove contaminated clothing and shoes. Handle with care and dispose of in a 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. 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

Protection of first-aiders disconnecting electrical supply. Ensure ade present before entry into confined spaces.

4.2 Most important symptoms and effects, both acute and delayed

Potential acute health effects

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.



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Always assume that aspiration has occurred. Specific treatments

5.FIRE AND EXPLOSION INFORMATION

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 decomposition products 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.

5.3 Advice for firefighters Special precautions for

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.

Firefighters Special protective equipment

Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus

for fire-fighters

(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.

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 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.

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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 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 an expert, and, if required, approved by local authorities.



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(REACH), Annex II, as amended by Commission Regulation (EU) 2015 / 830.

6.3 Methods and material for containment

and cleaning up

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

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.

7. HANDLING AND STORAGE INFORMATION

hygiene 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 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.

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

7.3 Specific end use(s) Recommendations

Industrial sector specific solutions

8. EXPOSURE CONTROLS / PERSONAL PROTECTION INFORMATION

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 ³ 8 hours. Form: mist and fume
Oil mist	STEL: 3 mg/m ³ 15 minutes. Form: mist and fume
	[Air contaminant]
	AFS 2015:7 (Sweden, 12/2015).
	TWA: 1 mg/m ³ 8 hours. Form: mist and fume
	STEL: 3 mg/m ³ 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 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



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(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 Appropriate engineering

Controls

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.

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

Individual protection measures

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

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

working shift.

Other skin protection

Respiratory protection

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

Environmental exposure controls

engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

9.PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear and Brown	
Odor: Gear oil odor	Vapor Pressure: ≤ 0, 1 hPa (20 °C) (Mineral oil, ASTM D 5191) (CONCAWE,2010)
Physical State : Liquid	Density: 0.90 max at 15 °C
pH: No data available	Percent Volatile by Volume: No data available
Boiling Point : No data available	Volatile Organic Content: No data available
Melting Point/ Pour Point : < -9 °C (ASTM D-97)	Molecular Weight: No data available
Specific Gravity: 0.870-0.881	Average Carbon Number: No data available
Flash point: > 190 °C, COC (ASTM D 92)	Viscosity, Kinematic at 40 C (100 F): 320 mm 2/ s (40 °C) (ASTM D445)
	Auto-ingnition temperature: >300 °C
Solubility in Water: Insoluble in water	Substance(s) according to IP346 : 3%
Octanol /water Coefficient : No data available	

10. STABILITY AND REACTIVITY INFORMATION

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,

10.6 Hazardous decomposition inorganic compounds.

products

10.5 Incompatible materials



gases, including carbon monoxide, H2S, SOx (sulfur oxides) or sulfuric acid and unidentified organic and

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(REACH), Annex II, as amended by Commission Regulation (EU) 2015 / 830.

11. TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
Distillate (petroleum), hydro treated Heavy	LC50 Inhalation Dusts and	Rat	>5.53 mg/l	4 hours
Paraffinic, C 24-50 solvent dewaxed	mists	Rabbit	>5000 mg/kg	-
Hydrogenated	LD50 Dermal	Rat	>5000 mg/kg	-
	LD50 Oral	Fish 1	4,4 mg/l	96 hours
Long chain Alkyl phosphate	LC50 fish 1	Daphnia 1	5,4 mg/kg	48 hours
Long-chain alkenyl amine	EC50 Daphnia 1	Rabbit	>20000mg/kg	96 hours
	C; R34	Rat	9050 mg/kg	
	LC50/			
	LD50			

Irritation/Corrosion

Skin No known significant effects or critical hazards. Eye No known significant effects or critical hazards. Respiratory No known significant effects or critical hazards.

<u>Sensitisation</u>

Skin No known significant effects or critical 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.

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 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.

Potential chronic health effects

General No known significant effects or critical hazards.

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 hazards.

Teratogenicity
No known significant effects or critical hazards.

Product/ingredient name
No known significant effects or critical hazards.

Fertility effects
No known significant effects or critical hazards.

Other information Not available.

Specific hazard

12. ECOLOGICAL INFORMATION

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

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transfer could also be impaired.





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13.DISPOSAL INFORMATION

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 Yo

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.

14. TRANSPORTATION 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	No	No	No	No
hazards				
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

Oils

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15. Regulatory Information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture EU Regulation (EC) No. 1907/2006 (REACH)

Annex XIV - List of substances subject to authorization

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

Annex XVII - Restrictions on the Not applicable.

manufacture, placing on the market and use of certain dangerous substances,

mixtures and articles Other EU regulations

<u>Seveso D</u> This product is not controlled under the Seveso Directive.



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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

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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 - CODEInternational maritime dangerous goods code.ICAOInternational Civil Aviation Organization.IATAInternational 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

Previous Version Information :-. Other: No information available

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