Safety data sheet as per Commission Regulation (EU) 2020/878
Product: Additiv AHP

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

1.1 Product identifier

Trade name **Additiv AHP**

Chemical Name Ashless Antiwear Hydraulic Additive Package

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses Used for formulating ashless gear oils in high pressure systems

Uses identified against Food additive, medicinal products, cosmetic products

1.3 Details of the supplier of the safety data sheet:

Manufacturer Prasol Chemicals Limited (Formerly known as Prasol Chemicals Private Limited)
Prasol House, Plot No.A-17/2/3,
T.T.C. Indl. Area, Khairne M.I.D.C.,
Navi Mumbai - 400 710.
Maharashtra, India.

Telephone +91-22-69450600/ 61952500

Telefax +91-22-61952577

e-mail address sales@prasolchem.com; inquiry@prasolchem.com

1.4 Emergency telephone number

Telephone +91-22- 7045783555/ 7045790555

Language English

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 (CLP)

Acute Toxicity	Category 4	H302	Harmful if swallowed
Acute Toxicity	Category 4	H312	Harmful in contact with skin
Skin Corrosion	Category 1C	H314	Causes severe skin burns and eye damage
Eye Damage	Category 1	H318	Causes serious eye damage
Aquatic Acute	Category 1	H400	Very toxic to aquatic life
Aquatic Chronic	Category 1	H410	Very toxic to aquatic life with long lasting effects
		EUH071	Corrosive to the respiratory tract.

Information concerning particular hazards for human and environment: No further information

2.2 Label elements

Labeling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms

GHS05 GHS09

Signal word Danger

Hazard statements

H302	Harmful if swallowed
H312	Harmful in contact with skin
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H400	Very toxic to aquatic life
H410	Very toxic to aquatic life with long lasting effects
EUH071	Corrosive to the respiratory tract.

Precautionary statements

General	P103	Read label before use.
Prevention	P260	Do not breathe dusts or mists..
	P264	Wash hands thoroughly after handling.
	P270	Do not eat, drink or smoke when using this product.
	P273	Avoid release to the environment.
	P280	Use protective gloves and eye protection.
Response	P301 + P312	IF SWALLOWED: Call a doctor if you feel unwell.
	P301+P330+ P331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
	P302+P352	IF ON SKIN: Wash with plenty of water.
	P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
	P304+P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.

	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P310	Immediately call a doctor.
	P312	Call a doctor if you feel unwell.
	P321	Specific treatment: wash with plenty of water and mild soap.
	P330	Rinse mouth.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P363	Wash contaminated clothing before reuse.
	P391	Collect spillage
Storage	P405	Store locked up.
Disposal	P501	Dispose of contents and container in accordance with national regulations

2.3 Other hazards

Not a PBT, vPVB substance according to the criteria of Annex XIII to REACH regulation
Not having endocrine disruptive properties as per criteria of Delegated Regulations (EC) 2017/2100 or (EC) 2018/605

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances not applicable

3.2 Mixtures

Ingredient	Classification	Concentration (%)
Ashless package	See Section 2	100

Any concentration shown as a range is to protect confidentiality or is due to batch variation.
There are no other ingredients present, which are classified as hazardous and hence require reporting in this section.
None of the ingredients present are classified as skin sensitisers 1A, respiratory sensitisers 1A, aspiration hazards and endocrine disruptors.

Additional information:

Molecular Formula	not applicable (UVCB)
Molecular Weight	not applicable (UVCB)

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information	Symptoms of poisoning may only appear several hours later. When symptoms persist or in all cases of doubt seek medical advice. Remove from exposure, lie down. Never give anything by mouth to an unconscious person.
After inhalation	After inhalation of vapours during processing, remove the patient to fresh air at once.
After skin contact	Take off all contaminated clothing immediately. If symptoms persist, call a physician. Wash off immediately with soap and plenty of water.
After eye contact	Rinse immediately with plenty of water and seek medical advice.
After swallowing	Do not induce vomiting and seek medical advice immediately.
4.2 Most important symptoms and effects, both acute and delayed	Headache, dizziness, nausea, eye and skin irritation
4.3 Indication of any immediate medical attention and special treatment needed	Treat symptomatically and supportively

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	CO_2, dry powder, foam, water spray
Unsuitable extinguishing media	water jet
5.2 Special hazards arising from the substance or mixture	May form toxic sulfur dioxide, phosphorous oxides and carbon oxides if burning. Burning may produce irritating, toxic and obnoxious fumes. Vapors may be heavier than air and may travel along the ground to a distant ignition source and flash back. Closed container may rupture if strongly heated. Explosive mixtures may occur at temperatures at or above the flashpoint.
5.3 Advice for firefighters	Cool closed containers exposed to fire with water spray. Wear self-contained breathing apparatus.

Water may cause splattering. A solid stream of water will spread the burning material. Stop leak if safe to do so.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	**Personal precautions, protective equipment and emergency procedures**	Use personal protective equipment. Avoid breathing vapours, mist or gas during processing. Ensure adequate ventilation
6.2	**Environmental precautions**	Do not allow to enter sewers, surface or ground water.
6.3	**Methods and material for containment and cleaning up**	Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal. Suitable binder: sand
6.4	**Reference to other sections**	Section 8 for information on personal protection equipment. Section 13 for disposal information

SECTION 7: HANDLING AND STORAGE

7.1	**Precautions for safe handling**	If possible, use material transfer, metering and blending plants that are closed. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.
7.2	**Conditions for safe storage, including any incompatibilities**	
	Advice on protection against fire and explosion	Follow normal measures for preventive fire protection.
	Storage	German storage class: 10 - Combustible liquids Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Mechanical exhaust required.
	Packaging	MS drums
	Incompatibility	None identified
	Advice on common storage	Observe prohibition against storing together!
	Storage stability	Maximum Storage Temperature: 45°C
7.3	**Specific end use(s)**	No further relevant information available

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1	**Control parameters**			
	Occupational Exposure Limit	Contains no substances with occupational exposure limit values.		
8.2	**Exposure controls**			
	Appropriate engineering controls	If possible, use material transfer, metering and blending plants that are closed		
	Personal protective equipment			
	Eye/ face protection	closed goggles, face shield		
	Skin protection	Type of material	Thickness	Breakthrough time
	Hand protection	Butyl-rubber	0.5 mm	> 480 min
		Polychloroprene (PCP)	0.5 mm	110 min
	Body protection	Boots, body suit		
	Respiratory protection	Not required; except in case of aerosol formation. Avoid inhaling vapours.		
	Thermal hazards	Combustible liquid, possibility of decomposition on excess heating		
	Industrial hygiene	Avoid contact with skin and eyes. Remove immediately all contaminated clothing. Keep working clothes separately. Smoking, eating and drinking should be prohibited in the application area.		

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Pale yellow liquid
Odour	characteristic of sulfur compounds
Odour threshold	no data available
pH	3.0-5.0
Melting point	Not determined
Boiling point	not determined (decomposes before boiling; decomposition started at 200°C)
Flash point	100°C (open cup)

Evaporation rate	not determined
Flammability (solid, gas)	not pyrophoric (product is a liquid)
Flammability limits	no data available
Vapour pressure	Not determined
Vapour density	not determined
Relative density	0.9 at 15.6°C
Solubility in water	insoluble
Partition coefficient	Not determined
Ignition temperature	Not determined
Decomposition temperature	no data available
Viscosity at 40 °C	140cSt
Explosive properties	Study not conducted as no structural alert for explosiveness
Oxidizing properties	Study not conducted as no exothermic reaction with combustible materials
Particle characteristics	Not applicable (substance is a liquid)

9.2 Other information No further data

SECTION 10: STABILITY AND REACTIVITY

10.1	**Reactivity**	No hazardous reaction when handled and stored according to provisions.
10.2	**Chemical stability**	Under storage at normal ambient temperatures (-40°C to +45°C), the product is stable. **Decomposition temperature** 200°C.
10.3	**Possibility of hazardous reactions**	Will not occur
10.4	**Conditions to avoid**	Do not expose to excessive heat, ignition sources, or oxidizing materials. Elevated temperatures..
10.5	**Incompatible materials**	Keep away from strong oxidising agents.
10.6	**Hazardous decomposition products**	Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans, phosphorous oxides and phosphorous sulfides and sulfides may also be released. Under combustion conditions, oxides of the following elements will be formed: nitrogen, phosphorus, sulfur.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50	oral	rat	1000 g/kg bw	Category 4
LC50	inhalation	No study due to vapour pressure very low		
LD50	Dermal	Rabbit	2000mg/kg	Category 4

Skin irritation	Corrosive Category 1C (rabbit)
Serious eye irritation	Irritating Category 2 (rabbit)
Respiratory or skin sensitization	Not a skin sensitizer (mouse)
Germ cell mutagenicity	non mutagenic (Ames test)
Carcinogenicity	no data available
Reproductive toxicity	No data available
STOT-single exposure	irritating to eye and skin;
STOT-repeated exposure	not classified as specific target organ toxicant

11.2 Information on other hazards

Endocrine disrupting properties	No endocrine disrupting properties
Other information	No further information

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

Aquatic toxicity

Toxicity to fish	LC50	96h	1mg/L	*Danio rerio*
Toxicity to aquatic invertebrates	EL50	48h	17mg/L	*Daphnia magna*
Toxicity to aquatic algae and cyanobacteria	EL50	72h	0.8 mg/L	*Pseudokirchneriella subcapitata*

12.2 Persistence and degradability

Biodegradation not readily biodegradable (35% in 28days)

12.3 Bioaccumulative potential No potential for bioaccumulation

12.4	**Mobility in soil**	log Koc = < 1.87.
12.5	**Results of PBT and vPvB assessment**	Not a PBT, vPvB substance according to the REACH regulation
12.6	**Endocrine disrupting properties**	No endocrine disrupting properties
12.7	**Other adverse effects**	Harmful to aquatic organisms. The material is harmful to the environment

SECTION 13: DISPOSAL CONSIDERATIONS

13.1	**Waste treatment methods**	Observe all national, state and local environmental regulations.
	Product disposal	Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.
	Packaging disposal	Clean container with water. Recover waste water for processing later. Destroy packaging by incineration at an approved waste disposal site.
	Sewage disposal	Do not dispose in sewage.

SECTION 14: TRANSPORT INFORMATION

		ADR/RID	IMDG	ICAO/IATA
14.1	**UN Number**	-	-	-
14.2	**UN proper shipping name**	Not hazardous for transport		
14.3	**Transport hazard class**	-	-	-
14.4	**Packaging group**	-	-	-
14.5	**Environmental hazards**	environmentally hazardous, marine pollutant		
14.6	**Special precautions for the user**	Combustible liquid; Flash point 100°C (open cup) Environmentally hazardous substance. Marine pollutants. Irritating to the eyes and skin. Keep dry. Keep separated from foodstuffs		
14.7	**Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**	See regulatory information for transport approval		

SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

Major accident hazard **Seveso III** no

International Chemical Inventory Status

USA (TSCA)	Listed
Canada (DSL)	Listed
Australia (AICS)	Listed
Japan (MITI)	Listed
Korea (KECL)	Listed
Philippines (PICCS)	Listed
China	Listed
New Zealand	Listed
Taiwan	Listed

15.2 Chemical safety assessment A Chemical Safety Assessment will be carried out at the time of REACH registration

SECTION 16: OTHER INFORMATION

Indication of changes: Sections in which changes have been made since the last version are marked with a diamond ◆ in the left hand margin.

Abbreviations and acronyms:

Abbreviations and acronyms in English language:

ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
AICS	Australian Inventory of Chemical Substances
CAS	Chemical Abstracts Service (division of the American Chemical Society)
CLP	Classification for Labeling and Packaging
DSL	Domestic Substances List
EC	European Commission

EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
EL50	Effective loading 50%
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
ICAO	International Civil Aviation Organization
IMDG	International Maritime Code for Dangerous Goods
KECL	Korea Existing Chemicals List
KOC	Soil adsorption coefficient
KOW	Partition Coefficient octanol-water
LC50	Lethal concentration, 50 percent
LD50	Lethal dose, 50 percent
MARPOL	International Convention for the Prevention of Pollution from Ships
MITI	Ministry of International Trade and Industry
NOAEC	No Observed Adverse Effect Concentration
NOAEL	No Observed Adverse Effect Level
NOEC	No Observed Effect Concentration
PBT	Persistent, bioaccumulative and toxic substances
PICCS	Philippine Inventory of Chemicals and Chemical Substances
RID	Regulations Concerning the International Transport of Dangerous Goods by Rail
STOT	Specific target organ toxicity
TSCA	Toxic Substances Control Act
UN	United Nations
vPVB	(very) Persistent, (very) Bioaccumulative

Sources

Key literature references and sources for data
Commission Regulation (EU) 2020/878 of 18 June 2020 amending Annex II to Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

--End of safety data sheet--