

Safety data sheet as per Commission Regulation (EU) 2020/878

Product: Additiv 84121



◆ SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name Additiv 84121
Chemical Name Partial alkyl amine neutralized acid phosphates

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

Relevant identified uses Used as an Anti-wear oil additive for automotive and Industrial Gear oil, Industrial oil packages, Grease additive packages and Metal working formulations, Rust preventive coating for metals; Foam inhibitors and stabilizers, Paint driers and viscosity reducers; Emulsifying agents and special detergents
Lubricants with incidental food contact

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 Prasol Chemicals Private Limited)
Prasol House, Plot No.A-17/2/3,
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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)

Skin Irritation	Category 2	H315	Causes skin irritation
Eye Irritation	Category 2A	H319	Causes serious eye irritation
Aquatic Chronic	Category 2	H411	Very toxic to aquatic life with long lasting effects

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



GHS07



GHS09

Signal word Warning

Hazard statements	H315	Causes skin irritation
	H319	Causes serious eye irritation
	H411	Very toxic to aquatic life with long lasting effects

Precautionary statements

General	P103	Read label before use.
Prevention	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	P302+P352	IF ON SKIN: Wash with plenty of water.
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
	P321	Specific treatment: wash with plenty of water and mild soap.
	P332+P313	If skin irritation occurs: Get medical advice.
	P337+P313	If eye irritation persists: Get medical advice.
	P362+P364	Take off contaminated clothing and wash it before reuse.
	P391	Collect spillage

Storage -

Disposal P501 Dispose of contents and container in accordance with national regulations

2.3 Other hazards

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Not a PBT, vPVB substance according to the criteria of 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

Name	Amines, monoalkyl and dialkyl phosphates/ Additiv 84121
IUPAC Name	Amines, monoalkyl and dialkyl phosphates
CAS No.	Proprietary
EC No.	Proprietary
Molecular Formula	not applicable (UVCB)
Molecular Weight	not applicable (UVCB)

Ingredient	Classification	Concentration (%)
Amines, monoalkyl and dialkyl phosphates	Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 2 H315, H319, H411	99 - 100

There are no other ingredients present, which are classified as hazardous and hence require reporting in this section.

3.2 Mixtures not applicable

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 CO₂, 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.

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- 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.
Packing material Metal, mild steel
Incompatibility Polyethylene, butyl-rubber, Butadiene Rubber, Styrene Rubber
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 100 mg/m³ TWA
- 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
Butyl-rubber	0.5 mm	> 480 min
Polychloroprene (PCP)	0.5 mm	110 min

Hand protection
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 -3°C (liquid; pour point -3±3°C)
Boiling point not determined (decomposes before boiling; decomposition started at 200°C)
Flash point 110°C (closed cup)
Evaporation rate not determined
Flammability (solid, gas) not pyrophoric (product is a liquid)
Flammability limits no data available
Vapour pressure 6.9 x 10⁻² Pa at 25°C
Vapour density not determined
Relative density 1.0 at 20°C
Solubility in water 0.375g/l at 20°C
Partition coefficient 1.87 log Kow (n-octanol/water)

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Ignition temperature	286°C
Decomposition temperature	no data available
Viscosity at 40 °C	130cSt
Particle characteristics	Not applicable (substance is a liquid)
9.2 Other information	
Surface tension	36.0 mN/m at 21.8 ± 0.5 °C. Substance is considered to be surface active..
Explosive properties	Study not conducted as no structural alert for explosiveness
Oxidizing properties	Study not conducted as no exothermic reaction with combustible materials

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	Excessive heat, ignition sources, oxidizing materials or 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	>5000 g/kg bw Category 4
LD50 Dermal Rabbit	>2000mg/kg Category 4
Skin irritation	Irritating 24 h (rabbit) Category 2; H315
Serious eye irritation	Irritating 24 h (rabbit) Category 2; H319
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 <i>Danio rerio</i>
Toxicity to aquatic invertebrates	EL50 48h 17mg/L <i>Daphnia magna</i>
Toxicity to aquatic algae and cyanobacteria	EL50 72h 0.8 mg/L <i>Pseudokirchneriella subcapitata</i>
12.2 Persistence and degradability	
Biodegradation	not readily biodegradable (35% in 28days) Aq. Chr. Cat 2 H411
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	Observe all federal, state, and local environmental regulations. Contact a licensed professional
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methods waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Do not dispose in sewage.

SECTION 14: Transport information

		ADR/RID	IMDG	ICAO/IATA
14.1	UN Number	3082	3082	3082
14.2	UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (MIXTURE, CONTAINS AMINE-NEUTRALIZED PHOSPHORIC ACID ESTER)		
14.3	Transport hazard class	9	9	9
14.4	Packaging group	III	III	III
14.5	Environmental hazards	environmentally hazardous, marine pollutant		
14.6	Special precautions for the user	Combustible liquid; Flash point 110°C (closed cup) Irritating to the eyes and skin. Keep dry. Keep separated from foodstuffs		
		EmS Number	F-A (S-F)	
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

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

Further information:

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

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
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

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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

Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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