

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

Product: Additiv A128



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

1.1 Product identifier

Trade name Additiv A128
Chemical Name Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate

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

Relevant identified uses Lubricant additive; Anti-wear additives to lubricants such as greases, gear oils, and motor oils; corrosion inhibitors and antioxidants
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)

Skin Sensitizer Category 1B H317 May cause an allergic skin reaction
Aquatic Chronic Category 2 H411 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 H317 May cause an allergic skin reaction
H411 Toxic to aquatic life with long lasting effects

Precautionary statements

General

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Prevention

P261 Avoid breathing gas, fumes, mist, vapours or spray.
P272 Contaminated work clothing should not be allowed out of the workplace.
P273 Avoid release to the environment.
P280 Wear protective gloves.

Response

P302+P352 IF ON SKIN: Wash with plenty of water and mild soap.
P333+P317 If skin irritation or rash occurs: Get medical help.
P363+P364 Take off contaminated clothing and wash it before reuse.
P391 Collect spillage.

Storage

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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 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 Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate
CAS Number 68413-48-9
EC Number 270-220-1
Molecular Formula C₂₈H₅₅O₆PS₂

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Molecular Weight	582.8			
Ingredient	Classification	Concentration (%)	SCL, M-factor, ATE	
Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate	Skin Sens. 1B, Aq. Chr. 2; H317, H411	100	M(Chronic)=0	

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.

3.2 Mixtures not applicable

None of the ingredients present are classified as skin sensitisers 1A, respiratory sensitisers 1A, aspiration hazards and endocrine disruptors.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General information

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 and seek medical attention.

After skin contact

Take off all contaminated clothing immediately. Wash off immediately with soap and plenty of water.

After eye contact

Wash affected eyes for at least 15 minutes under running water with eyelids held open. Seek medical advice.

After swallowing

Do not induce vomiting. Rinse mouth and then drink plenty of water.

4.2 Most important symptoms and effects, both acute and delayed

Further important symptoms and effects are so far not known.

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically and supportively.

No known specific antidote

SECTION 5: FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media

Water spray, CO₂, dry powder, foam

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

In the event of fire, following can be released: carbon oxides (CO, CO₂), sulfur oxides (SO_x) and phosphorous oxides (PO_x)

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.

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.

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Storage	Store in a cool place. Keep container tightly closed in a dry and well-ventilated place. Mechanical exhaust required.
Advice on common storage	Observe prohibition against storing together!
Storage stability	Maximum Storage Temperature: 30°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 (Based on similar substance)	DNEL	Long-term exposure- systemic effects
	worker	Inhalation 14.7 mg/m ³
	worker	dermal 2.08 mg/kg
	consumer	Inhalation 3.61 mg/m ³
	consumer	dermal 1.04 mg/kg
	consumer	oral 1.04 mg/kg

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
Hand protection	Butyl-rubber 0.7 mm
	Nitrile rubber 0.4 mm
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

Physical state	Liquid
Color	Colorless to slightly yellow
Odour	Characteristic
Odour threshold	no data available
pH	5.5-7.5
Melting point	not determined
Boiling point	244.5°C
Flash point	150°C (open cup)
Evaporation rate	not determined
Flammability (solid, gas)	not applicable (product is a liquid)
Flammability limits	Not determined, non-flammable
Vapour pressure	0.02Pa at 20°C
Vapour density	not determined
Relative density	1.01at 20°C
Solubility in water	1.2 µg/L at 20°C, pH 6.5
Partition coefficient	>6.5 log Kow (n-octanol/water) at 23°C
Ignition temperature	263°C
Decomposition temperature	no data available
Viscosity at 20°C	15cSt
Particle characteristics	Not applicable (substance is a liquid)

9.2 Other information

Explosive properties	no further information
Oxidizing properties	no explosive properties based on chemical structure no oxidizing properties based on chemical structure

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity	No hazardous reaction when handled and stored according to provisions.
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10.2 Chemical stability	The product is stable under storage at normal ambient temperatures.
10.3 Possibility of hazardous reactions	No hazardous reactions known.
10.4 Conditions to avoid	Extremes of temperature and direct sunlight, avoid electrostatic discharge
10.5 Incompatible materials	strong acids, strong bases, strong oxidizing agents.
10.6 Hazardous decomposition products	carbon oxides, sulfur oxides, phosphorus oxides, nitrogen oxides, toxic gases/vapours

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects	
Acute toxicity	
LD50 oral rat	11.3mg/kg bw Not classified
Skin irritation	Not irritating
Serious eye irritation	Not irritating
Respiratory or skin sensitization	Skin sensitization: May cause an allergic skin reaction Cat. 1B Respiratory sensitization: Not classified based on available information.
Germ cell mutagenicity	non mutagenic
Carcinogenicity	no data available
Reproductive toxicity	No reproductive or developmental toxicity found
STOT-single exposure	No further information
STOT-repeated exposure	not classified as specific target organ toxicant NOAEL 1000 mg/kg bw/day; rat (oral)
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 >100mg/L <i>Oncorhynchus mykiss</i>
Toxicity to aquatic invertebrates	EC50 48h >100mg/L <i>Daphnia magna</i>
Toxicity to aquatic algae and cyanobacteria	EC50 72h >100mg/L <i>Desmodesmus subspicatus</i>
Toxicity to microorganisms	IC50 3h >1000mg/L sewage, domestic
12.2 Persistence and degradability	
Biodegradation	not readily biodegradable (12.1% in 28days) Aq. Chr. 2, H411
12.3 Bioaccumulative potential	very low potential for bioaccumulation
12.4 Mobility in soil	Moderate to low; Adsorption to the solid soil phase is expected.
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	3082	3082	3082
14.2 UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Dibutyl [[bis[(2-ethylhexyl)oxy]phosphinothioyl]thio]succinate)		
14.3 Transport hazard class	9	9	9
14.4 Packaging group	III	III	III
14.5 Environmental hazards	environmentally hazardous, marine pollutant		

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- 14.6 Special precautions for the user** Combustible liquid; Flash point 150°C (open cup)
Environmentally hazardous substance. Marine pollutants.
- 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 (Tracking No. 428250) | |
| Canada (DSL) | listed | |
| Australia (AICS) | listed | |
| Japan (MITI) | Not Listed | |
| Korea (KECL) | Listed (2011-3-5083) | |
| Philippines (PICCS) | listed | |
| China (IECSC) | listed | |
| New Zealand (NZIoC) | listed | |
| Taiwan (TCSI) | 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:

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
DNEL	Derived No Effect Level
DSL	Domestic Substances List
EC	European Commission
EC50	Half maximal effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
GHS	Globally Harmonized System of Classification and Labeling of Chemicals
IATA	International Air Transport Association
IBC	International Bulk Chemical
IC50	Half maximal inhibitory concentration
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
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

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)

ECHA <https://echa.europa.eu/registration-dossier/-/registered-dossier/27580>

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