

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

## Product: Additiv 930



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

#### 1.1 Product identifier

**Trade name** Additiv 930  
**Chemical Name** Zinc bis(O,O)-dibutyl dithiophosphate

#### 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, Rubber additive

**Uses identified against** Food additive, medicinal products, cosmetic products

#### 1.3 Details of the supplier of the safety data sheet:

**Manufacturer** Prasol Chemicals Limited  
Prasol House, Plot No.A-17/2/3,  
T.T.C. Industrial 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 Irritation | Category 2 | H315 | Causes skin irritation                          |
| Eye Damage      | Category 1 | H318 | Causes serious eye damage                       |
| 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



GHS05



GHS09

###### Signal word

Danger

###### Hazard statements

|      |                                                 |
|------|-------------------------------------------------|
| H315 | Causes skin irritation                          |
| H318 | Causes serious eye damage                       |
| H411 | Toxic to aquatic life with long lasting effects |

###### Precautionary statements

|                   |                |                                                                                                                                 |
|-------------------|----------------|---------------------------------------------------------------------------------------------------------------------------------|
| <b>General</b>    | P103           | Read label before use.                                                                                                          |
| <b>Prevention</b> | P264           | Wash hands thoroughly after handling.                                                                                           |
|                   | P273           | Avoid release to the environment.                                                                                               |
|                   | P280           | Use protective gloves and eye protection.                                                                                       |
| <b>Response</b>   | 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 |
|                   | P317           | Get medical help.                                                                                                               |
|                   | P321           | Specific treatment: wash with plenty of water and mild soap.                                                                    |
|                   | P332 + P313    | If skin irritation occurs: Get medical attention.                                                                               |
|                   | P337 + P317    | If eye irritation persists, get medical help.                                                                                   |
|                   | 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

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

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### SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

#### 3.1 Substances

|                   |                       |
|-------------------|-----------------------|
| Name              | Additiv 930           |
| CAS No.           | 6990-43-8             |
| EC No.            | 230-257-6             |
| Molecular Formula | not applicable (UVCB) |
| Molecular Weight  | not applicable (UVCB) |

| Ingredient                            | Classification                                          | Concentration (%) | SCL, M-factor, ATE |
|---------------------------------------|---------------------------------------------------------|-------------------|--------------------|
| Zinc bis(O,O)-dibutyl dithiophosphate | Skin Irrit. 2, Eye Dam. 1, Aq. Chr. 2; H315, H318, 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

### 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

May cause eye damage, respiratory irritation, burns to mouth, throat and stomach if ingested

##### After inhalation

Headache. Respiratory difficulties.

##### After skin contact

Red skin. Tingling/irritation of the skin.

##### After eye contact

Irritation of the eye tissue. Inflammation/damage of the eye tissue.

##### After swallowing

Vomiting. Nausea. Disturbances of consciousness

##### Chronic symptoms

Skin rash/inflammation

#### 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<sub>2</sub>, dry powder, foam

##### Unsuitable extinguishing media

water jet

#### 5.2 Special hazards arising from the substance or mixture

May form toxic sulfur dioxide and carbon oxides if burning.

Closed container may rupture if strongly heated.

Explosive mixtures may occur at temperatures at or above the flashpoint.

Decomposition products may include the following materials: carbon oxides (CO, CO<sub>2</sub>); metal oxide/oxides; Hydrogen sulfide; sulfur oxides (SO<sub>2</sub>, SO<sub>3</sub>), mercaptans

#### 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

For small spills and large spills: Use personal protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Clear spills immediately.

##### For non-emergency personnel

Protective equipment: Gloves, Face shield, Protective clothing.

Emergency procedures: Mark the danger area. No naked flames. Wash contaminated clothes.

##### For emergency responders

Protective equipment: Equip cleanup crew with proper protection.

Emergency procedures: Ventilate area.

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|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>6.2 Environmental precautions</b>                            | Do not allow to enter sewers, surface or ground water.                                                                                                                                                                                                                                                                                                                                      |
| <b>6.3 Methods and material for containment and cleaning up</b> | For containment: Contain released product, collect/pump into suitable containers.<br>Plug the leak, cut off the supply<br>For cleaning up: Soak up with inert absorbent material eg. sand, earth, vermiculite or powdered lime stone and keep in suitable, closed containers for disposal. Clean contaminated surfaces with an excess of water. Wash clothing and equipment after handling. |
| <b>6.4 Reference to other sections</b>                          | Section 8 for information on personal protection equipment.<br>Section 13 for disposal information                                                                                                                                                                                                                                                                                          |

### SECTION 7: HANDLING AND STORAGE

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
|-------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>7.1 Precautions for safe handling</b>                                | Measures to prevent fire: Keep away from naked flames/heat. Use spark-/explosion proof appliances.<br>Measures to prevent aerosol and dust generation: Measure the concentration in the air regularly. Carry operations in the open/under local exhaust/ventilation or with respiratory protection. Comply with the legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Thoroughly clean/dry the installation before use.<br>Measures to protect the environment: Keep container tightly closed. If possible, use material transfer, metering and blending plants that are closed.<br>Maximum Handling Temperature 70 °C<br>Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. |
| <b>7.2 Conditions for safe storage, including any incompatibilities</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Technical measures and storage conditions</b>                        | Keep only in the original container in a cool, well ventilated place away from ignition sources and incompatible materials. Keep container closed when not in use<br>Follow normal measures for preventive fire protection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Packaging material</b>                                               | SUITABLE MATERIAL: steel, stainless steel, carbon steel, HDPE, glass                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Incompatible products</b>                                            | Strong bases. Strong acids, reducers, acid anhydrides                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Storage conditions</b>                                               | Store in a cool, dry area. Ventilation at floor level. Store at ambient temperature. Keep container tightly closed in a dry and well-ventilated place. Residual vapours might explode on ignition                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Advice on common storage</b>                                         | Observe prohibition against storing together!                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Storage stability</b>                                                | Maximum Storage Temperature: 45°C; Stable under recommended storage conditions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage class</b>                                                    | Class10 Combustible liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>7.3 Specific end use(s)</b>                                          | No further relevant information available                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

|     |                                      |                                                                            |                                                                                  |                   |  |
|-----|--------------------------------------|----------------------------------------------------------------------------|----------------------------------------------------------------------------------|-------------------|--|
| 8.1 | <b>Control parameters</b>            | Occupational Exposure Limit                                                | Contains no substances with occupational exposure limit values.                  |                   |  |
| 8.2 | <b>Exposure controls</b>             | Appropriate engineering controls                                           | If possible, use material transfer, metering and blending plants that are closed |                   |  |
|     | <b>Personal protective equipment</b> | Eye/ face protection                                                       | closed goggles, face shield                                                      |                   |  |
|     | <b>Skin protection</b>               |                                                                            |                                                                                  |                   |  |
|     | <b>Hand protection</b>               | Type of material                                                           | Thickness                                                                        | Breakthrough time |  |
|     |                                      | Butyl-rubber                                                               | 0.5 mm                                                                           | > 480 min         |  |
|     |                                      | Polychloroprene (PCP)                                                      | 0.5 mm                                                                           | 110 min           |  |
|     | <b>Body protection</b>               | Boots, body suit                                                           |                                                                                  |                   |  |
|     | <b>Respiratory protection</b>        | Not required; except in case of aerosol formation. Avoid inhaling vapours. |                                                                                  |                   |  |
|     | <b>Thermal hazards</b>               | Combustible liquid, possibility of decomposition on excess heating         |                                                                                  |                   |  |
|     | <b>Industrial hygiene</b>            | 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. |                                                                                  |                   |  |

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### SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

#### 9.1 Information on basic physical and chemical properties

|                           |                                                                |
|---------------------------|----------------------------------------------------------------|
| Appearance                | Colorless to pale brown liquid                                 |
| Odour                     | Mild petroleum odor                                            |
| Odour threshold           | no data available                                              |
| pH                        | 5.5-7.5                                                        |
| Melting point             | not determined (liquid; pour point -21°C)                      |
| Boiling point             | not determined (decomposes before boiling)                     |
| Flash point               | >160°C (open cup)                                              |
| Flammability (solid, gas) | not applicable (product is a liquid)                           |
| Flammability limits       | no data available                                              |
| Vapour pressure           | 0.0025 Pa at 25°C                                              |
| Vapour density            | not determined                                                 |
| Relative density          | 1.10 -1.20 at 15.6°C                                           |
| Solubility in water       | 1658 mg/L at 22°C, pH 5                                        |
| Partition coefficient     | 3.5 log Kow (n-octanol/water) at 20°C                          |
| Ignition temperature      | 262°C                                                          |
| Decomposition temperature | no data available                                              |
| Viscosity at 100 °C       | 10-16 cSt                                                      |
| Particle characteristics  | Not applicable (substance is a liquid)                         |
| 9.2 Other information     | no further information                                         |
| Evaporation rate          | not determined                                                 |
| Explosive properties      | no explosive properties however containers may explode in fire |
| Oxidizing properties      | no oxidizing properties                                        |

### 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.                                                                                                                                                                                                                                                                                                         |
| 10.3 Possibility of hazardous reactions | Spontaneous decomposition may start at 150°C.; After prolonged heating, slow decomposition may start at above 80°C.                                                                                                                                                                                                                                                                           |
| 10.4 Conditions to avoid                | Extremes of temperature and direct sunlight.                                                                                                                                                                                                                                                                                                                                                  |
| 10.5 Incompatible materials             | Keep away from reducing agents, oxidising agents, acids and bases.                                                                                                                                                                                                                                                                                                                            |
| 10.6 Hazardous decomposition products   | Smoke, carbon monoxide, carbon dioxide, aldehydes and other products of incomplete combustion. Hydrogen sulfide and alkyl mercaptans and sulfides may also be released. Under combustion conditions, oxides of the following elements will be formed: phosphorus, sulfur, zinc. Odorous and toxic fumes may form from decomposition of this product if heat sources in excess 121°C are used. |

### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1 Information on toxicological effects

|                                   |            |        |                                                  |                |
|-----------------------------------|------------|--------|--------------------------------------------------|----------------|
| Acute toxicity                    |            |        |                                                  |                |
| LD50                              | oral       | rat    | 3.08 g/kg bw                                     | Category 5     |
| LC50                              | inhalation | rat    | >2.3 mg/l                                        | not classified |
| LD50                              | Dermal     | rabbit | 20 g/kg bw                                       | not classified |
| Skin irritation                   |            |        | Irritating <b>H315 Category 2; 24 h</b> (rabbit) |                |
| Serious eye irritation            |            |        | Irritating <b>Category 1, H318</b>               |                |
| Respiratory or skin sensitization |            |        | skin sensitizer                                  |                |
| Germ cell mutagenicity            |            |        | non mutagenic (Ames test)                        |                |
| Carcinogenicity                   |            |        | no data available                                |                |
| Reproductive toxicity             |            |        | NOAEL 30 mg/kg/day (rat)                         |                |
| STOT-single exposure              |            |        | irritating to eye and skin                       |                |
| STOT-repeated exposure            |            |        | not classified as specific target organ toxicant |                |
|                                   |            |        | NOAEL 125 mg/kg bw/day; rat (oral)               |                |

#### 11.2 Information on other hazards

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

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## SECTION 12: ECOLOGICAL INFORMATION

### 12.1 Toxicity

#### Aquatic toxicity

|                                             |      |     |           |                                  |
|---------------------------------------------|------|-----|-----------|----------------------------------|
| Toxicity to fish                            | LC50 | 96h | 4.5mg/L   | <i>Oncorhynchus mykiss</i>       |
| Toxicity to aquatic invertebrates           | LC50 | 48h | 5.4 mg/L  | <i>Daphnia magna</i>             |
| Toxicity to aquatic algae and cyanobacteria | EC50 | 72h | 2.0 mg/L  | <i>Selenastrum capricornutum</i> |
| Toxicity to microorganisms                  | EC50 | 3h  | >10,000mg | sewage, domestic                 |

### 12.2 Persistence and degradability

#### Biodegradation

not readily biodegradable (1.5% in 28days)

### 12.3 Bioaccumulative potential

Bioconcentration factor <1000L/Kg  
very low potential for bioaccumulation

### 12.4 Mobility in soil

log Koc = 3.5

### 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 Aq. Chr. Cat 2, H411

## 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. (MIXTURE, CONTAINS ZINC DIALKYL DITHIOPHOSPHATE)                                         |      |           |
| 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; Environmentally hazardous substance. Marine pollutants. Irritating to the eyes. Keep dry. Keep separated from foodstuffs |      |           |
| EmS Number                                                   | F-A (S-F)                                                                                                                                    |      |           |
| 14.7 Maritime transport in bulk according to IMO instruments | Ship type: 2; Pollution Category: Y                                                                                                          |      |           |

## 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 (Internal Tracking No. 146548) |
| Canada (DSL)        | listed                                |
| Australia (AICS)    | listed                                |
| Japan (MITI)        | Listed (MITI No. 2-2184)              |
| Korea (KECL)        | Listed (KE-28669)                     |
| 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

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### Abbreviations and acronyms:

|          |                                                                                     |
|----------|-------------------------------------------------------------------------------------|
| ADR      | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| AICS     | Australian Inventory of Chemical Substances                                         |
| ATE      | Acute Toxicity Estimate                                                             |
| 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                       |
| 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                 |
| M-factor | Multiplication Factor                                                               |
| 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       |
| SCL      | Specific concentration limit                                                        |
| 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)  
ECHA <https://echa.europa.eu/registration-dossier/-/registered-dossier/12551>

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*--End of safety data sheet--*