Safety data sheet as per Commission Regulation (EU) 2015/830

Product: Additiv 730



utes. Remove contact

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

1.1 Product identifier

Trade name Additiv 730

Chemical Name Zinc dialkyl dithiophosphate (ZDDP)

CAS Number 68649-42-3 **EC Number** 272-028-3

Pre-Registration number (REACH) 17-2119391155-38-0000

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 Pvt. Ltd.,

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 +91-22-27782555 Telefax +91-22-27782430

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

1.4 Emergency telephone number

Telephone +91-22- 27782555

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







Dispose of contents and container in accordance with national regulations

	-				
Signal word	Danger				
Hazard state	ments				
H315		Causes skin irritation			
	H318	Causes serious eye damage			
	H411	Toxic to aquatic life with long lasting effects			
Precautionar	y statements				
General	P103	Read label before use.			
Prevention	P264	Wash hands thoroughly after handling.			
	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 minute			
		lenses, if present and easy to do. Continue rinsing			
	P310	Immediately call a doctor.			
	P321	Specific treatment: wash with plenty of water and mild soap.			
	P332 + P313	If skin irritation occurs: Get medical attention.			
	P362+P364	Take off contaminated clothing and wash it before reuse.			
	P391	Collect spillage			

2.3 Other hazards

Not a PBT, vPVB substance according to the criteria of REACH regulation

Revision: 17-02 Replaces Version: 15-01 Page 1 of 5

Issue Date: 27.07.2017

P501

Storage Disposal

Safety data sheet as per Commission Regulation (EU) 2015/830

Product: Additiv 730



SECTION 3: Composition/information on ingredients

3.1 Substances

IngredientCAS No.EC No.Concentration (%)Zinc dialkyl dithiophosphate (ZDDP)68649-42-3272-028-380-100

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. Rinse immediately with plenty of water and seek medical advice.

After swallowing Do not induce vomiting and seek medical advice immediately.

Most important symptoms and Headache, dizziness, nausea, eye irritation

4.2 Most important symptoms and effects, both acute and delayed

4.3 Indication of any immediate medical attention and special

treatment needed

After eve contact

Treat symptomatically and supportively

SECTION 5: Firefighting measures

5.1 Extinguishing media

 ${\color{red} \textbf{Suitable extinguishing media}} \qquad \qquad CO_2, \ dry \ powder, \ foam$

Unsuitable extinguishing media water jet

5.2 Special hazards arising from May form toxic sulfur dioxide and carbon oxides if burning.

the substance or mixture Closed container may rupture if strongly heated.

Combustible liquid.

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, Use personal protective equipment.

protective equipment and Avoid breathing vapours, mist or gas during processing.

emergency procedures Ensure adequate ventilation

6.2 Environmental precautions Do not allow to enter sewers, surface or ground water.

6.3 Methods and material for Soak up with inert absorbent material and dispose of as hazardous waste.

containment and cleaning up 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 If possible, use material transfer, metering and blending plants that are closed.

handling 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 Follow normal measures for preventive fire protection.

fire and explosion

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.

Revision: 17-02 Replaces Version: 15-01 Page **2** of **5**

Safety data sheet as per Commission Regulation (EU) 2015/830 Product: Additiv 730



Advice on common storage
Storage stability
Specific end use(s)

Observe prohibition against storing together!
Maximum Storage Temperature: 45°C
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 If possible, use material transfer, metering and blending plants that are closed

controls

7.3

Personal protective equipment

Eye/ face protection closed goggles, face shield

Skin protection

Hand protection Type of material Thickness Breakthrough time

Butyl-rubber 0.5 mm > 480 min Polychloroprene (PCP) 0.5 mm 110 min

Body protection Boots, body suit

Respiratory protectionNot required; except in case of aerosol formation. Avoid inhaling vapours.

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 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 -21oC)

Boiling point not determined (decomposes before boiling)

Flash point >160°C (open cup)
Evaporation rate not determined

Flammability (solid, gas) not applicable (product is a liquid)

Flammability limits no data available
Vapour pressure 0.0025Pa at 25°C
Vapour density not determined
Relative density 1.10 -1.20 at 15.6°C
Solubility in water 1658mg/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

Explosive properties no explosive properties however containers may explode in fire

Oxidizing properties no oxidizing properties 9.2 Other information no further information

♦ 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 Spontaneous decomposition may start at 150°C.; After prolonged heating, slow

reactions 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 formation of alkylmercaptans, dialkylsulphides, traces of hydrogen sulphide

decomposition products possible

Revision: 17-02 Replaces Version: 15-01 Page **3** of **5**

Safety data sheet as per Commission Regulation (EU) 2015/830 Product: Additiv 730



SECTION 11: Toxicological information

▶ 11.1 Information on toxicological effects

Acute toxicity

LD50 3.08 g/kg bw Category 5 oral rat LC50 inhalation >2.3 mg/lnot classified rat 20 g/kg bw LD50 Dermal rabbit not classified Skin irritation Irritating Category 2; 24 h (rabbit) Irritating Category 2A; 24 h (rabbit) Serious eye irritation

Respiratory or skin skin sensitizer

sensitization

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)

♦ SECTION 12: Ecological information

12.1 Toxicity

Aquatic toxicity

Toxicity to fish

LC50

96h

4.5mg/L

Oncorhynchus mykiss

LC50

48h

5.4 mg/L

Daphnia magna

Toxicity to aquatic algae and cyanobacteria

EC50

72h

2.0 mg/L

Selenastrum capricornutum

EC50

Toxicity to microorganisms

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 $\log \text{Koc} = 3.5$

12.5 Results of PBT and vPvB assessment Not a PBT, vPvB substance according to the REACH regulation

12.6 Other adverse effects Harmful to aquatic organisms

The material is harmful to the environment

>10,000mg

sewage, domestic

SECTION 13: Disposal considerations

13.1 Waste treatment Observe all federal, state, and local environmental regulations.

Contact a licensed professional waste disposal service to disp

Contact a licensed professional waste disposal service to dispose of this material.

Dissolve or mix the material with a combustible solvent and burn in a chemical

Dissolve of find the material with a combustible solvent and burn in a

incinerator equipped with an afterburner and scrubber.

Do not dispose in sewage.

♦ SECTION 14: Transport information

		ADR/RID	ADN	IMDG	ICAO/IATA		
14.1	UN Number	3082	3082	3082	3082		
14.2	UN proper shipping name	ENVIRONME	ENTALLY HA	ZARDOUS SUBST	TANCE, LIQUID, N.O.S.		
		(MIXTURE, C	CONTAINS Z	INC DIALKYL DIT	'HIOPHOSPHATE)		
14.3	Transport hazard class	9	9	9	9		
14.4	Packaging group	III	III	III	Π		
14.5	Environmental hazards	environmentally hazardous, marine pollutant					
14.6	Special precautions for the user	Combustible liquid; Flash point 96°C (closed cup)					
		Environmentally hazardous substance. Marine pollutants. Irritating to the					
		eyes. 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						

Revision: 17-02 Replaces Version: 15-01 Page 4 of 5

Safety data sheet as per Commission Regulation (EU) 2015/830 **Product: Additiv 730**



SECTION 15: Regulatory information

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

Major accident hazard Seveso III

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

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:

European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways ADN

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 Globally Harmonized System of Classification and Labeling of Chemicals GHS

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

International Convention for the Prevention of Pollution from Ships MARPOL

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

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/substance-information/-/substanceinfo/100.065.461

Revision: 17-02 Replaces Version: 15-01 Page 5 of 5