

## **Primax AC**

# Section 1. Identification of the substance/mixture and of the company/undertaking

GHS product identifier	: Primax AC
Product code	: 16399
Other means of identification	: Not available.
Product description	: Paint.
Product type	: Solid.

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

Use in coatings - Industrial use

Manufacturing country	: Jotun Thailand Limited 700/353 Amata Nakorn Industrial Estate (BIP 2) Moo 6, Tumbol Donhualoh, Amphur Muang Chonburi Chonburi 20000 Thailand
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Emergency telephone number	: Jotun Thailand Limited Phone: + 66 2 022 9888 ext. 2100, 2400, 2402

# Section 2. Hazards identification

Classification of the substance or mixture	: SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A SKIN SENSITISATION - Category 1 SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1 LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1
GHS label elements	
Hazard pictograms	
Signal word	: Warning.
Hazard statements	<ul> <li>H317 - May cause an allergic skin reaction.</li> <li>H319 - Causes serious eye irritation.</li> <li>H410 - Very toxic to aquatic life with long lasting effects.</li> </ul>
Precautionary statements	
Prevention	<ul> <li>P280 - Wear protective gloves. Wear eye or face protection.</li> <li>P273 - Avoid release to the environment.</li> <li>P261 - Avoid breathing dust.</li> </ul>

# Section 2. Hazards identification

Response	: P391 - Collect spillage.
	P363 - Wash contaminated clothing before reuse.
	P302 + P352 - IF ON SKIN: Wash with plenty of water.
	P333 + P313 - If skin irritation or rash occurs: Get medical advice or attention.
	P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes.
	Remove contact lenses, if present and easy to do. Continue rinsing.
	P337 + P313 - If eye irritation persists: Get medical advice or attention.
Storage	: Not applicable.
Disposal	<ul> <li>P501 - Dispose of contents and container in accordance with all local, regional, national and international regulations.</li> </ul>

Other hazards which do not	1	None known.
result in classification		

## Section 3. Composition/information on ingredients

Substance/mixture	: Mixture
Other means of identification	: Not available.

Ingredient name	%	CAS number
zinc	≥25 - ≤50	7440-66-6
zinc oxide	≤3	1314-13-2
imidodicarbonimidic diamide, n-(2-methylphenyl)-	<3	93-69-6

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

## Section 4. First aid measures

Description of necessary first aid measures		
Eye contact	: Immediately flush eyes with plenty of water, occasionally lifting the upper and low eyelids. Check for and remove any contact lenses. Continue to rinse for at lease minutes. Get medical attention.	
Inhalation	: Remove victim to fresh air and keep at rest in a position comfortable for breathin If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attentior adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loose tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	n if en
Skin contact	: Wash with plenty of soap and water. Remove contaminated clothing and shoes. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. Continue to rinse for at least 10 minutes. Get medical attention. In the event of any complaints or symptoms, avoid further exposure. Wash clothing be reuse. Clean shoes thoroughly before reuse.	
Ingestion	: Wash out mouth with water. Remove dentures if any. If material has been swallowed and the exposed person is conscious, give small quantities of water to drink. Stop if the exposed person feels sick as vomiting may be dangerous. Do induce vomiting unless directed to do so by medical personnel. If vomiting occur the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and medical attention immediately. Maintain an open airway. Loosen tight clothing s as a collar, tie, belt or waistband.	not rs, I get
Date of issue/Date of revision	: 07.11.2023	2/11

# Section 4. First aid measures

Most important symptoms/e	ffects, acute and delayed	
Potential acute health effect	t <u>s</u>	
Eye contact	: Causes serious eye irritation.	
Inhalation	: No known significant effects or critical hazards.	
Skin contact	: May cause an allergic skin reaction.	
Ingestion	: No known significant effects or critical hazards.	
<u>Over-exposure signs/symp</u>	<u>toms</u>	
Eye contact	: Adverse symptoms may include the following: pain or irritation watering redness	
Inhalation	: No specific data.	
Skin contact	: Adverse symptoms may include the following: irritation redness	
Ingestion	: No specific data.	
Indication of immediate medical attention and special treatment needed, if necessary		
Notes to physician	: In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.	
Specific treatments	: No specific treatment.	
Protection of first-aiders	: No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves.	

Section 5	. Firefighting	measures
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See toxicological information (Section 11)

Extinguishing media	
Suitable extinguishing media	: Use an extinguishing agent suitable for the surrounding fire.
Unsuitable extinguishing media	: None known.
Specific hazards arising from the chemical	: This material is very toxic to aquatic life with long lasting effects. Fire water contaminated with this material must be contained and prevented from being discharged to any waterway, sewer or drain.
Hazardous thermal decomposition products	: Decomposition products may include the following materials: carbon dioxide carbon monoxide nitrogen oxides metal oxide/oxides
Special protective actions for fire-fighters	: Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training.
Special protective equipment for fire-fighters	: Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

# Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures			
For non-emergency personnel	:	No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilt material. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment.	
For emergency responders	-	If specialised clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".	
Environmental precautions	:	Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air). Water polluting material. May be harmful to the environment if released in large quantities. Collect spillage.	
Methods and material for con	Ita	nment and cleaning up	
Small spill	:	Move containers from spill area. Avoid dust generation. Using a vacuum with HEPA filter will reduce dust dispersal. Place spilled material in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.	
Large spill	:	Move containers from spill area. Approach the release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.	

# Section 7. Handling and storage

#### Precautions for safe handling

Protective measures	Put on appropriate personal protective equipment (see Section 8). Persons with a history of skin sensitization problems should not be employed in any process in which this product is used. Do not get in eyes or on skin or clothing. Do not ingest. Avoid release to the environment. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Empty containers retain product residue and can be hazardous. Do not reuse container.
Advice on general occupational hygiene	Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. See also Section 8 for additional information on hygiene measures.
Conditions for safe storage, including any incompatibilities	Store in accordance with local regulations. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination. See Section 10 for incompatible materials before handling or use.

## Section 8. Exposure controls/personal protection

#### **Control parameters**

#### **Occupational exposure limits**

Dust Limit : 10 mg/m<sup>3</sup> (TWA of total inhalable dust) and 4 mg/m<sup>3</sup> (TWA of respirable)

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Ingredient name		Exposure limits
zinc oxide		Ministry of Labor (Thailand, 8/2017). [zinc oxide fume] TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Fume Ministry of Labor (Thailand, 8/2017). [zinc oxide] TWA: 5 mg/m <sup>3</sup> 8 hours. Form: Respirable dust TWA: 15 mg/m <sup>3</sup> 8 hours. Form: inhalable dust
Appropriate engineering controls	: Good general ventilation contaminants.	should be sufficient to control worker exposure to airborne
Environmental exposure controls	they comply with the requ cases, fume scrubbers, f	on or work process equipment should be checked to ensure uirements of environmental protection legislation. In some ilters or engineering modifications to the process sary to reduce emissions to acceptable levels.
Individual protection meas	ures	
Hygiene measures	eating, smoking and usin Appropriate techniques s Contaminated work cloth	nd face thoroughly after handling chemical products, before ig the lavatory and at the end of the working period. hould be used to remove potentially contaminated clothing. ing should not be allowed out of the workplace. Wash fore reusing. Ensure that eyewash stations and safety workstation location.
Eye/face protection	assessment indicates thi gases or dusts. If contact	g to ISO 16321-1:2022 should be used when a risk s is necessary to avoid exposure to liquid splashes, mists, et is possible, the following protection should be worn, ndicates a higher degree of protection: chemical splash
Skin protection		
Hand protection	be worn at all times wher this is necessary. Consid check during use that the should be noted that the different for different glow	arvious gloves complying with an approved standard should in handling chemical products if a risk assessment indicates dering the parameters specified by the glove manufacturer, a gloves are still retaining their protective properties. It time to breakthrough for any glove material may be re manufacturers. In the case of mixtures, consisting of protection time of the gloves cannot be accurately
	resistance to any individu The breakthrough time m The instructions and info storage, maintenance an Gloves should be replace material. Always ensure that glove correctly.	aterial or combination of materials that will give unlimited ual or combination of chemicals. hust be greater than the end use time of the product. rmation provided by the glove manufacturer on use, d replacement must be followed. ed regularly and if there is any sign of damage to the glove as are free from defects and that they are stored and used ctiveness of the glove may be reduced by physical/chemical

damage and poor maintenance. Barrier creams may help to protect the exposed areas of the skin but should not be applied once exposure has occurred.

Wear suitable gloves tested to ISO 374-1:2016.

Recommended, gloves(breakthrough time) > 8 hours: butyl rubber (> 0.4 mm), nitrile rubber (> 0.75 mm)

# Section 8. Exposure controls/personal protection

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Body protection	<ul> <li>Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Other skin protection	<ul> <li>Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.</li> </ul>
Respiratory protection	: Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators must be used according to a respiratory protection program to ensure proper fitting, training, and other important aspects of use.
	If workers are exposed to concentrations above the exposure limit, they must use a respirator according to EN 140. If dust is generated and ventilation is inadequate, use respirator that will protect against dust/mist. (FFP2 / N95).

# Section 9. Physical and chemical properties and safety characteristics

The conditions of measurement of all properties are at standard temperature and pressure unless otherwise indicated.

Appearance		
Physical state	1	Solid.
Colour	4	Various.
Odour	1	Odourless.
Odour threshold	1	Not available.
рН	1	Not applicable.
Melting point/freezing point	1	Not applicable.
Boiling point, initial boiling point, and boiling range	;	Not available.
Flash point	1	Not applicable.
Evaporation rate	1	Not available.
Flammability	1	Not applicable.
Lower and upper explosion limit/flammability limit	:	Not applicable.
Vapour pressure	1	Highest known value: 0 kPa (0 mm Hg) (at 20°C) (imidodicarbonimidic diamide, n-(2-methylphenyl)-).
Relative vapour density	1	Highest known value: 5.47 (Air = 1) (zinc oxide).
Relative density	1	1.8 to 2 g/cm <sup>3</sup>
Solubility	:	cold water Not soluble hot water Not soluble
Partition coefficient: n- octanol/water	1	Not available.
Auto-ignition temperature	1	>400°C (>752°F)
Decomposition temperature	1	>230°C (>446°F)
Viscosity	1	Kinematic (40°C (104°F)): >20.5 mm²/s (>20.5 cSt)
Flow time (ISO 2431)	1	Not available.
Particle characteristics		
Median particle size	1	Not available.

# Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: No specific data.
Incompatible materials	: Not applicable.
Hazardous decomposition products	<ul> <li>Under normal conditions of storage and use, hazardous decomposition products should not be produced.</li> </ul>

# Section 11. Toxicological information

#### Information on toxicological effects

#### Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
imidodicarbonimidic diamide, n-(2-methylphenyl)-	LD50 Dermal	Rat - Male, Female	>3100 mg/kg	-
	LD50 Oral	Rat - Male	2390 mg/kg	-

#### Irritation/Corrosion

Product/ingredient name	Result	Species	Score	Exposure	Observation
zinc	Skin - Mild irritant	Human	-	72 hours 300 Micrograms Intermittent	-
zinc oxide	Eyes - Mild irritant	Rabbit	-	24 hours 500 mg	-
	Skin - Mild irritant	Rabbit	-	24 hours 500 mg	-
imidodicarbonimidic diamide n-(2-methylphenyl)-	, Eyes - Severe irritant	Rabbit	-	24 hours 100 microliters	-

#### **Sensitisation**

•	Route of exposure	Species	Result
imidodicarbonimidic diamide, n-(2-methylphenyl)-	skin	Mammal - species unspecified	Sensitising

#### **Mutagenicity**

Not available.

#### **Carcinogenicity**

Not available.

#### **Reproductive toxicity**

Not available.

#### **Teratogenicity**

Not available.

#### Specific target organ toxicity (single exposure)

Not available.

#### Specific target organ toxicity (repeated exposure)

# Section 11. Toxicological information

Not available.

#### Aspiration hazard

Not available.

Information on likely routes of exposure	ot available.	
Potential acute health effects		
Eye contact	auses serious eye irritation.	
Inhalation	lo known significant effects or critical hazards.	
Skin contact	lay cause an allergic skin reaction.	
Ingestion	lo known significant effects or critical hazards.	
Symptoms related to the phy	, chemical and toxicological characteristics	
Eye contact	dverse symptoms may include the following: ain or irritation /atering edness	
Inhalation	lo specific data.	
Skin contact	dverse symptoms may include the following: ritation edness	
Ingestion	o specific data.	
Delayed and immediate effect	well as chronic effects from short and long-term exposure	
Short term exposure		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Long term exposure		
Potential immediate effects	lot available.	
Potential delayed effects	lot available.	
Potential chronic health effe		
Not available.		
General	Once sensitized, a severe allergic reaction may occur when subsequ	ently exposed
Carcinogenicity	lo known significant effects or critical hazards.	
Mutagenicity	lo known significant effects or critical hazards.	
Reproductive toxicity	lo known significant effects or critical hazards.	

#### Numerical measures of toxicity

Acute toxicity estimates

N/A

# Section 12. Ecological information

#### **Toxicity**

Product/ingredient name	Result	Species	Exposure
zinc zinc oxide	Acute LC50 330 µg/l Fresh water Acute LC50 0.78 mg/l Fresh water Acute LC50 1.1 ppm Fresh water Chronic NOEC 0.02 mg/l Fresh water	Daphnia - Daphnia magna Fish Fish - Oncorhynchus mykiss Algae - Pseudokirchneriella subcapitata - Exponential growth phase	48 hours 96 hours 96 hours 72 hours

#### Persistence and degradability

Product/ingredient name	Aquatic half-life	Photolysis	Biodegradability
zinc	-	-	Not readily
zinc oxide	-	-	Not readily

#### **Bioaccumulative potential**

Product/ingredient name	LogPow	BCF	Potential
zinc oxide	-	28960	high

#### Mobility in soil

Soil/water partition	: Not available.
coefficient (Koc)	

Other adverse effects

: No known significant effects or critical hazards.

## Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimised wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Care should be taken when handling emptied containers that have not been cleaned or rinsed out. Empty containers or liners may retain some product residues. Avoid dispersal of spilt material and runoff and contact with soil, waterways, drains and sewers.

## Section 14. Transport information

	UN	IMDG	ΙΑΤΑ		
UN number	UN3077	UN3077	UN3077		
UN proper shipping name	Environmentally hazardous substance, solid, n.o.s. (zinc)	Environmentally hazardous substance, solid, n.o.s. (zinc). Marine pollutant (zinc, zinc oxide)	Environmentally hazardous substance, solid, n.o.s. (zinc)		
Transport hazard class(es)	9	9	9		
Packing group					
Date of issue/Date of revision : 07.11.2023 9/11					

Primax AC							
Section 14. Transport information							
Environmental hazards	Yes.			Yes.		Yes.	
Additional information	ation						
ADR / RID		:	•	the packagings n 1.8. <b>ion number</b> 90	• •	hen transported in sizes provisions of 4.1.1.1, 4.′	
UN		:	This product is not regulated as a dangerous good when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8.				
IMDG		:	This product is not regulated as a dangerous good when transported in sizes of $\leq$ 5 L or $\leq$ 5 kg, provided the packagings meet the general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8. <u>Emergency schedules</u> F-A, S-F				
ΙΑΤΑ		:	This product is not regulated as a dangerous good when transported in sizes of $\leq 5 \text{ L}$ or $\leq 5 \text{ kg}$ , provided the packagings meet the general provisions of 5.0.2.4.1, 5.0.2.6.1.1 and 5.0.2.8.				
Special precaution	is for user	:		. Ensure that per	sons transporting	t in closed containers th the product know what	
Transport in bulk a	according	:	Not available.				

to IMO instruments

# Section 15. Regulatory information

#### Hazardous Substances Act

#### **Type**

Ingredient name	CAS number	<b>Threshold</b>	<u>Type</u>	<u>Authority</u>	<b>Conditions</b>
lead	7439-92-1	-	-	Department of Industrial Works	-

Harmful Chemicals List : Listed

#### International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals Not listed.

#### **Montreal Protocol**

Not listed.

Stockholm Convention on Persistent Organic Pollutants Not listed.

Rotterdam Convention on Prior Informed Consent (PIC) Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals Not listed.

# Section 16. Other information

<u>History</u>	
Date of printing	: 07.11.2023
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Date of previous issue	: No previous validation
Version	: 1
Key to abbreviations	<ul> <li>ATE = Acute Toxicity Estimate BCF = Bioconcentration Factor GHS = Globally Harmonized System of Classification and Labelling of Chemicals IATA = International Air Transport Association IBC = International Air Transport Association IBC = International Maritime Dangerous Goods LogPow = logarithm of the octanol/water partition coefficient MARPOL = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution) N/A = Not available SGG = Segregation Group UN = United Nations</li> </ul>

#### Procedure used to derive the classification

Classification	Justification
SERIOUS EYE DAMAGE/EYE IRRITATION - Category 2A	Calculation method
SKIN SENSITISATION - Category 1	Calculation method
SHORT-TERM (ACUTE) AQUATIC HAZARD - Category 1	Calculation method
LONG-TERM (CHRONIC) AQUATIC HAZARD - Category 1	Calculation method

References

: Not available.

Indicates information that has changed from previously issued version.

#### Notice to reader

The information in this document is given to the best of Jotun's knowledge, based on laboratory testing and practical experience. Jotun's products are considered as semi-finished goods and as such, products are often used under conditions beyond Jotun's control. Jotun cannot guarantee anything but the quality of the product itself. Minor product variations may be implemented in order to comply with local requirements. Jotun reserves the right to change the given data without further notice.

Users should always consult Jotun for specific guidance on the general suitability of this product for their needs and specific application practices.

If there is any inconsistency between different language issues of this document, the English (United Kingdom) version will prevail.