According to EC Directive 91/155/EEC 2023

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1. **IDENTIFICATION OF SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING**

# Identification of the product

 **Product name : Waste byproduct of Solid Phosphoric Acid Catalyst**

 *Manufacturer/supplier identification*

 Company : CLARIANT SASOL CATALYSTS (PTY) LTD

 Eugene Houdry Road

 Sasolburg

 Phone number : +27 (16) 951 1000

 Fax number : +27 (16) 976 2565

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1. **COMPOSITION/INFORMATION ON INGREDIENTS**

# Synonyms

Silicon ortho-phosphate

# Ingredients

 CAS-No. : 12037-47-7 Si3 (PO4)4 Silicon pyro-phosphate

 CAS-No. : 13827-38-8 SiP207 Amorphous Silica

 CAS-No. : 7631-86-9 SiO2

 CAS-No. : 7664-38-2 Phosphoric acid as orthophosphoric acid

 Hazard symbols : C *(corrosive)*

 EC-Index-No. : 015-011-00-6 *(causes burns)*

R-phrases : 34

 Content : 20-27%

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1. **HAZARDS IDENTIFICATION**

Irritating to eyes and skin.

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1. **FIRST AID MEASURES**

 Eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. If eye irritation persists, consult a specialist.

 Skin contact : Wash off immediately with soap and plenty of water.

 Inhalation : Move to fresh air.

 Ingestion : Rinse mouth.

 Drink plenty of water.

 Call a physician immediately.

 Do not induce vomiting (risk of perforation!).

 Do not attempt to neutralise.

1. **FIRE FIGHTING MEASURES**

 Special hazards : In case of fire, phosphoric acid mist, PO­x can be formed.

 Special protective equipment : In the event of fire, wear self-contained breathing apparatus.

 Extinguishing agents : Carbon dioxide (CO2) or dry powder preferred.

 Water spray (may release phosphates). Prevent fire fighting water from entering surface water or ground water.

 The product itself does not burn. Use extinguishing measures appropriate to the environment.

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1. **ACCIDENTAL RELEASE MEASURES**

 Personal precautions : Do not breathe dust.

 Environmental precautions : Do not flush into surface water or sewers.

 Methods for cleaning up : Take up uncontaminated material, and pass on for further processing. Take up contaminated material by mechanical means, load into clean containers, and dispose of in accordance with regulations.

 Additional information : Avoid dust formation.

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1. **HANDLING AND STORAGE**

 Safe handling advice : Avoid contact with skin, eyes and clothing. Use only in well- ventilated areas.

 Measures to prevent fire and

 explosions : none

 Requirements for storage rooms : Keep container tightly closed and dry.

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1. **EXPOSURE CONTROLS/PERSONAL PROTECTION**

 Occupational exposure limits : OES / HSE phosphoric acid, as orthophosphoric acid.

 TWA - 1 mg/m3

 STEL - 3 mg / m3

 TRGS900 limiting value of inert dust

 TWA 6 mg / m3

 *Additional information on technical system design*

 Technical measures : Dust extraction.

 Personal protection

 Respiratory protection : In case of formation of dust: effective dust mask.

 Eye protection : Safety glasses.

 Hand protection : In case of formation of dust: Protective gloves.

 Body protection : Protective suit.

 Hygienic measures : Wash off with warm water and soap.

 General personal protection: Prophylactic use of protective ointment (barrier cream) is recommended.

1. **PHYSICAL AND CHEMICAL PROPERTIES**

 Form : Extrusions

 Colour : Grey

 Odour : Odourless

 Melting point : > 600°C

 Boiling point : not applicable

 Flash point : not applicable

 Ignition temperature : not applicable

 Autoflammability : not applicable

 Explosion limits : not applicable

 Vapour pressure : not applicable

 Density : ±1000 kg/m3

 Bulk density : 900 … 1000 kg/m3

 Solubility : low solubility in / with water

 pH-value : not applicable

 Viscosity : not applicable

 Oxidizing properties : none

 Explosive properties : none

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1. **STABILITY AND REACTIVITY**

 Conditions to be avoided : Intensive heating

 Avoid contact with moisture and water.

 Substances to be avoided : Water

 Hazardous decomposition products : Oxides of phosphorus

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1. **TOXICOLOGICAL INFORMATION**

# Acute toxicity

 Primary irritation rabbit result : The product causes irritation of eyes, skin and mucous membranes)

 *Delayed or chronic toxicological effects*

 Symptoms : No data available

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1. **ECOLOGICAL INFORMATION**

*Elimination*

 Assessment : No data available

 *Mobility -* Distribution to environmental compartments

 Results : No data available

 Assessment : Poisonous effect due to pH-shift

 Additional information : Phosphorous compounds, depending on concentration, can contribute to the eutrophication of lakes and rivers.

 *Heavy metal content* : None

 *Additional information about ecology*

 General advice : Do not allow to get into drains.

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1. **DISPOSAL CONSIDERATIONS**

 Product : Can be landfilled or incinerated, when in compliance with the National Environment Waste Management Act, act 59 of 2008

 Contaminated packaging : Can be re-used after emptying and cleaning.

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1. **TRANSPORT INFORMATION**

 Road transport ADR/RID : Not a dangerous substance as defined in the above regulations.

 Maritime transport IMDG : Not a dangerous substance as defined in the above regulations.

 Air transport ICAO/IATA : Not a dangerous substance as defined in the above regulations.

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1. **REGULATORY INFORMATION**

 *Classification according to EEC directives.*

 Classification : The product is classified and labelled in accordance with EC directives or respective national laws.

 Hazard labels : (Xi) Irritant.

 R-phrases : (R36/38) Irritating to eyes and skin.

 S-phrases : (S22) Do not breath dust.

 : (S26) in case of contact with eyes, rinse immediately with of water and seek medical advice.

 Hazardous ingredients : phosphoric acid as orthophosphoric acid.

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1. **OTHER INFORMATION**

 Responsible for SDS: QESH dept

 Contact person: Priyesh Matabal +27 (16) 951 1210

 This information presented herein is believed to be accurate but is not warranted. It does not represent any assurance of properties of the product.