SECTION 1: Product Identification

Ruthenium, 5% on activated carbon, (50-70% wetted powder) Tvonik Noblyst

F3080

Product Number: 401

CAS Registry

7440-18-8

Number:

Formula:

Ъ

EINECS ทุนุกุมer:

231-127-1

Cherrical Family:

supported metal catalyst

Synonym: Ruthenium on carbon catalyst, Futhenium on charcoal, Evonik H 198 P/W 5% Ru

SECTION 2: Composition and Information on Ingredients

Ingredient	CAS Number	Percent	ACGIH (TWA)	OSHA (PEL)
Title compound	7440-18-8	5.0	no data	no data
Carbon	7440-44-0	65.0	3.5mg/m3 (as C)	3.5mg/m3 (as C)
Water	7732-18-5	bala		S.

SECTION 3: Hazards Identification

Emergency Overview: May be irritating to skin, eyes and respiratory tract.

Primary Routes of

Inhalation, skin, eyes Exposure:

Eye Contact:

May cause slight to mild irritation of the skin.

Skin Contact:

May cause slight to mild irritation of the eyes.

Inhalation:

May be irritating to the nose, mucous membranes and respiratory tract.

Ingestion;

No information available on the physiological effects of ingestion. May be harmful if

swallowed.

Acute Hoaith Effects:

May be irritating to skin, eyes and respiratory tract.

Chronic Health

Effects:

No information on long-term chronic effects.

NTP:

No

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IARC: No

OSHA: No

Eye Exposure:

Inhaia ion

SECTION 4: First Aid Measures

immediately flush the eyes with copious amounts of water for at least 10-15

minutes. A victim may need assistance in keeping their eye lids open. Get

immediate medical attention.

Wash the affected area with water. Remove contaminated clothes if necessary. Skin Exposure:

Seek medical assistance if irritation persists.

Remove the victim to fresh air. Closely monitor the victim for signs of respiratory

problems, such as difficulty in breathing, coughing, wheezing, or pain. In such

cases seek immediate medical assistance.

Seek medical attention immediately. Keep the victim calm. Give the victim water legestion:

(only if conscious). Induce vowiting only if directed by medical personnel.

SECTION 5: Fire Fighting Measures

Flash Point: no data

Autoignition
Temperature:

no data

Explosion Limits: no data

Extinguishing

Medium:

carbon diexide, dry powder or foam

Special Fire Fighting

Procedures:

It this product is involved in a fire, fire fighters should be equipped with a NIOSH approved positive pressure self-contained breathing apparatus and full protective

ciothing.

Hazardous

Combustion and

Decomposion

If involved in a fire, this material may emit toxic carbon repnoxide.

Products:

Unusua. Fire or

Once dry, becomes a flammable solid and organic vapors may cause a vigorous

Explosion Hazards: reaction with possible fire or explosion.

SECTION 6: Accidental Release Measures

Spill and Leak Keep moist. Small spills can be mixed with vermiculite or sodium carbonate and

Procedures: swept up.

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SECTION 7: Handling and Storage

Handling and

Keep container tightly closed. Keep moist. Becomes flammable when dry.

Storage:

SECTION 8: Exposure Controls and Personal Protection

Eve Protection:

Always wear approved safety glasses when handling a chemical substance in the

laboratory.

Skin Protection: Wear protective clothing and gloves.

Ventilation: Handle the material in an efficient fume hood.

If ventilation is not available a respirator should be worn. The use of respirators

Respirator: requires a Respirator Protection Program to be in compliance with 29 CFR

1910.134.

Additional Protection: No additional protection required.

SECTION 9: Physical and Chemical Properties

Color and Form: wetted, black powder

Molecular Weight: not applicable

Melting Point: no data

Boiling Point: no data

Vapor Pressure: no data

Specific Gravity: no data

Odor: none

Solubility in Water: insoluble

SECTION 10: Stability and Reactivity

Stability: air and moisture stable

Hazardous

no hazardous polymerization Polymerization:

Consisions to Avoid: If dried, contact with alcohols may cause fire.

Incompatibility: strong oxidizing agents and alcohols

Decomposition none

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Products:

SECTION 11: Toxicological Information

RTECS Data:

13tle compound: No information available in the RTECS files. Carbon: Oral(rat); LD:

>5g/kg

Carcinogenic Effects

no data

Mutagenic Effects:

no data

Tetratogenic Effects:

no data

SECTION 12: Ecological Information

Ecological

No information available

າກໂວເເກation:

SECTION 13: Disposal Considerations

Disposal:

Dispose of according to local, state and federal regulations.

SECTION 14: Transportation

Shipping Name

(CFR):

Non-hazardous

Hazard Class (CFR):

Additional Hazard

ΝΔ

Class (CFR):

Packaging Group

(CFR):

NΑ

UN ID Number (CFR): NA

Shipping Name

Non-hazardous

(IATA):

Hazard Class (IATA): NA

Additional Hazard

Class (iATA):

NA

Packaging Group

(IATÀ):

NA

UN ID Number

NA

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SHAANXI KAIDA CHEMICAL ENGINEERING CO., LTD

(IATA):

SECTION 15: Regulatory Information

TSCA:

Listed in the TSCA inventory

SARA (Title 313):

Title compound not listed

Second Ingredient:

C: Listed in the TSCA inventory

Third Ingredient:

H2O: Listed in the TSCA inventory

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