

SAFETY DATA SHEET

SECTION 1: PRODUCT & COMPANY IDENTIFICATION

1.1	Product description	:	PRECIOUS METAL CATALYST		
1.2	Grade Name	:	NCAT 3611		
1.3	CAS No	:	This product is a mixture. For CAS No please refer Section 3		
1.4	Chemical Formula	:	NA		
1.5	Synonyms	:	Ruthenium compound, with Alumina		
1.6	Manufacturer Name	:	Neocat Pvt. Ltd.		
1.7	Address	:	N-72, Additional Ambermath MIDC, Anandnagar Ambermath (East), Thane 421506, India		
1.8	Contact Details	:	Email: info@neocat.in Website: www.neocat.in		

SECTION 2: HAZARDS IDENTIFICATION

2.1	GHS Classification	:	Not classified as dangerous for supply / use.		
2.2	EC Classification	:	Not classified as dangerous for supply / use.		
2.3	Hazard Summary	:	Dust may cause irritation to skin & eye. May cause irritation to respiratory system.		
2.4	Hazard Symbol	:	Not applicable.		
2.5	Hazard Statement	:	Not applicable.		
2.6	Precautionary Statement	:	Not applicable.		

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

3.1	Appearance	:	Grey powder		
3.2	CAS No.	:	Components	Composition	CAS No.
			Ruthenium	0.3-5%	7440-18-8
			Alumina	95-99.7%	1344-28-1

SECTION 4: FIRST AID MEASURES

4.1	Eye contact	:	Causes mild eye irritation, check for & remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.		
4.2	Skin contact	:	In case of contact, immediately flush skin with plenty of water. Remove contaminated clothing & shoes. Get medical attention if irritation develops & persist. Wash clothing before reuse. Thoroughly clean shoes before reuse.		
4.3	Inhalation	:	Remove to fresh air. If not breathing, give artificial		

		:	respiration, if breathing is difficult, give oxygen. Get medical attention.		
4.4	Ingestion	:	Do not induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Get medical attention if symptoms appear.		

SECTION 5: FIRE FIGHTING MEASURES

5.1	Specific Hazards	:	Non-Combustible		
5.2	Hazardous Combustion Products	:	Non-Combustible		
5.3	Extinguishing Media	:	Compatible with all extinguishing media		
5.4	Fire-fighting equipment	:	The following protective equipment for fire fighters is recommended when this material is present in a fire: Self-contained breathing apparatus (SCBA), chemical goggles, body-covering protective clothing, chemical resistant gloves, and rubber boots.		

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1	Personal precautions, protective equipment, and emergency procedures	:	Carefully shovel or sweep up spilled material & place in suitable container. Avoid generating dust. Use appropriate personnel protective equipment (PPE), such as eye / face protection, dust mask, etc.		
6.2	Environmental precautions	:	Use appropriate container to avoid environmental contamination.		
6.3	Methods and materials for containment and cleaning up	:	Contain spillages. Dampening with water can reduce dust. Sweep or preferably vacuum up and collect in suitable containers for recovery or disposal.		
6.4	Reference to other sections	:	For disposal see section 13.		
6.5	Large Spill	:	Stop leak if without risk. Do not get water inside container. Call for assistance on disposal. Finish cleaning by spreading water on the contaminated surface & dispose of according to local & regional authority requirements.		

SECTION 7: HANDLING & STORAGE

7.1	Precautions	:	Avoid generation of dust. Keep container dry. Do not ingest. Do not breathe dust. If ingested seek medical advice immediately & show the container or the label. Avoid contact with skin & eyes. Wear protective equipment to comply with good occupational hygiene practice.		
7.2	Storage	:	Keep container tightly closed and dry. Keep container in		

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		a cool, well-ventilated area.
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SECTION 8: EXPOSURE CONTROLS, PERSONAL PROTECTION

8.1	Engineering control	:	Use with adequate ventilation. Safety shower & eyewash fountain should be within direct access.
8.2	Respiratory Protection	:	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.
8.3	Personal Protection in case of large spill	:	Wear appropriate protective gloves and clothing to prevent skin exposure. Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.
8.4	Exposure Limits	:	This product does not contain any hazardous materials with occupational exposure limits established by the region-specific regulatory bodies.

SECTION 9: PHYSICAL & CHEMICAL PROPERTIES

9.1	Appearance	:	Grey powder
9.2	Form	:	Solid
9.3	Colour	:	Grey
9.4	Odour	:	odourless
9.5	Odour Threshold	:	No data available
9.6	pH	:	No data available
9.7	Melting / Freezing Point (°C)	:	Not Relevant
9.8	Boiling Point (°C)	:	Not Relevant
9.9	Vapor Pressure (mm Hg)	:	Not Relevant
9.10	Evaporation rate	:	Not Relevant
9.11	Flash Point	:	Not Relevant
9.12	Autoignition Temp	:	No data available
9.13	Lower Flammable Limit	:	Not Relevant
9.14	Upper Flammable Limit	:	Not Relevant
9.15	Explosive Properties	:	Not Relevant
9.16	Oxidizing Properties	:	Not Relevant
9.17	Vapour Density (Air=1)	:	Not Relevant
9.18	Relative Density (Water =1)	:	Not Relevant
9.19	Solubility	:	Insoluble in water
9.20	Partition Coefficient (n-octanol/water)	:	No data available

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SECTION 10: STABILITY & REACTIVITY

10.1	Stability	:	The product is stable.
10.2	Conditions to avoid	:	Contact with water generates heat.
10.3	Materials to Avoid	:	Acid
10.4	Hazardous decomposition Product	:	None
10.5	Special remarks on Reactivity	:	None

SECTION 11: TOXICOLOGICAL INFORMATION:

11.1	Acute Toxicity	:	Not classified
11.2	Skin corrosion/irritation	:	Not classified
11.3	Serious eye damage/irritation	:	Not classified.
11.4	Respiratory or skin sensitization	:	Not classified.
11.5	Germ cell mutagenicity	:	Not classified.
11.6	Carcinogenicity	:	Not classified.
11.7	Reproductive toxicity	:	Not classified.
11.8	Specific target organ toxicity (single exposure)	:	Not classified.
11.9	Specific target organ toxicity (repeated exposure)	:	Not classified.
11.10	Aspiration hazard	:	Not classified.
11.11	Symptoms/injuries after inhalation	:	May cause irritation to the respiratory tract.
11.12	Symptoms/injuries after skin contact	:	May cause skin irritation.
11.13	Symptoms/injuries after eye contact	:	May cause eyes irritation.
11.14	Symptoms/injuries after ingestion	:	No information available.

SECTION 12: ECOLOGICAL INFORMATION

12.1	Toxicity	:	No additional information available
12.2	Persistence and degradability	:	No additional information available
12.3	Bioaccumulative potential	:	No additional information available
12.4	Mobility in soil	:	No additional information available
12.5	Other adverse effects Effect on ozone layer Effect on the global warming	:	No additional information available No known ecological damage caused by this product

SECTION 13: DISPOSAL CONSIDERATION

13.1	Waste Disposal Method	:	Normal disposal is via incineration operated by an accredited disposal contractor. Collect and return all waste products to supplier. Containers must be decontaminated in accordance with all applicable regulations. Collect as much as possible in clean container for reuse or disposal.
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SECTION 14: TRANSPORT INFORMATION

Classification for Road transport According to DOT regulations

Classification for Sea transport According to IMO-IMDG regulations

Classification for Air transport According to IATA/ICAO regulations

14.1	UN Number	:	Not dangerous goods
14.2	Proper Shipping name	:	Not dangerous goods
14.3	Transport Hazard Classes	:	Not dangerous goods
14.4	Packing Group	:	-

SECTION 15: REGULATORY INFORMATION

15.1	Warning Symbol	:	Not classified as hazardous
	Warning Word	:	Not classified as hazardous
	Risk Phrases	:	Not classified as hazardous
	Safety Phrases	:	Not classified as hazardous

Not listed on the United States TSCA (Toxic Substances Control Act) inventory

SECTION 16: DISCLOSURE

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. It is responsibility of transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material. Users should make their own investigations to determine the suitability of the information for their purposes. In no event shall the company be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential, or exemplary damages howsoever arising, even if the company has been advised of the possibility of such damages.