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1.

Beryllium 1000 ppm ICP in HNO3		n ICP in HNO3	MATERIAL SAFETY DATA SHEET SDS/MSDS
1.1	Product identifiers Product name	: Beryllium 100	00 ppm for ICP in HNO3
1.2	Relevant identified use	es of the substance or r	nixture and uses advised against
	Identified uses	: Laboratory cher	nicals, Industrial & for professional use only.
1.3	Details of the supplier Company	of the safety data sheet : Central Drug Ho 7/28 Vardaan Ho New Delhi-1000 INDIA	use (P) Ltd buse
	Telephone Email	: +91 11 4940404 : <u>care@cdhfinech</u>	
1.4	Emergency telephone		<i>// · · · · · · · · · · · · · · · · · · </i>

1.4 Emergency telephone number Emergency Phone # : +91 11 49404040 (9:00am - 6:00 pm) [Office hours]

2. HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [EU-GHS/CLP] Acute toxicity, Inhalation (Category 3) Skin irritation (Category 2) Eye irritation (Category 2) Skin sensitization (Category 1) Carcinogenicity, Inhalation (Category 1B) Specific target organ toxicity - repeated exposure (Category 2)

Classification according to EU Directives 67/548/EEC or 1999/45/EC

Toxic by inhalation. May cause cancer by inhalation. Harmful: danger of serious damage to health by prolonged exposure through inhalation. May cause sensitization by skin contact. Irritating to eyes and skin.

2.2 Label elements

Labelling according Regulation (EC) No 1272/2008 [CLP] Pictogram



Signal word

Hazard statement(s)	
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H350i	May cause cancer by inhalation.
H373	May cause damage to organs through prolonged or repeated exposure.
Procentionary statement(s)	

Precautionary statement(s) P201

Obtain special instructions before use.

	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P261	Wear protective gloves.
P280	IF IN EYES: Rinse cautiously with water for several minutes. Remove
P305 + P351 + P338	contact lenses, if present and easy to do. Continue rinsing. Call a POISON CENTER or doctor/ physician.
P311	none
Supplemental Hazard Statements	

Restricted to professional users.

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)

R-phrase(s) R49 R23 R48/20	May cause cancer by inhalation. Also toxic by inhalation. Also harmful: danger of serious damage to health by prolonged exposure through inhalation.
R36/38	Irritating to eyes and skin.
R43	May cause sensitization by skin contact.
S-phrase(s) S53 S26	Avoid exposure - obtain special instructions before use. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37 S45	Wear suitable protective clothing and gloves. In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Restricted to professional users.

2.3 Other hazards - none

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component		Classification	Concentration
Nitric acid CAS-No. EC-No. Index-No.	7697-37-2 231-714-2 007-004-00-1	Ox. Liq. 3; Skin Corr. 1A; H272, H314 O, C, R 8 - R35	1 - 5 %

Hexakis[µ-(acetato-o:	o')]-µ4-oxotetraberyllium		
Hexakis[µ-(acetato-o: CAS-No. EC-No. Index-No.	o')]-µ4-oxotetraberyllium 19049-40-2 242-785-4 004-002-00-2	Acute Tox. 3; Acute Tox. 2; Skin Irrit. 2; Eye Irrit. 2; Skin Sens. 1; Carc. 1B; STOT SE 3; STOT RE 1; Aquatic Chronic 2; H301, H315, H317, H319, H330, H335, H350i,	1 - 2,5 %
		H372, H411 T+, N, Carc.Cat.2, R49 - R25 - R26 - R36/37/38 - R43 - R48/23 - R51/53	

For the full text of the H-Statements and R-Phrases mentioned in this Section, see Section 16

4. FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Consult a physician. Show this safety data sheet to the doctor in attendance.

If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

In case of skin contact

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

- **4.2** Most important symptoms and effects, both acute and delayed To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.
- **4.3 Indication of any immediate medical attention and special treatment needed** no data available

5. FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- **5.2** Special hazards arising from the substance or mixture Carbon oxides, nitrogen oxides (NOx), Beryllium oxides
- **5.3** Advice for firefighters Wear self contained breathing apparatus for fire fighting if necessary.
- 5.4 Further information no data available

6. ACCIDENTAL RELEASE MEASURES

- **6.1 Personal precautions, protective equipment and emergency procedures** Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.
- **6.2** Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.
- 6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material and dispose of as hazardous waste. Keep in suitable, closed containers for disposal.
- 6.4 Reference to other sections For disposal see section 13.

7. HANDLING AND STORAGE

7.1 Precautions for safe handling

Avoid exposure - obtain special instructions before use. Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

7.3 Specific end uses

no data available

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

Components with workplace control parameters

8.2 Exposure controls

Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

Personal protective equipment

Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a)	Appearance	Form: clear, liquid Colour: colourless
b)	Odour	no data available
c)	Odour Threshold	no data available
d)	рН	no data available
e)	Melting point/freezing point	no data available
f)	Initial boiling point and boiling range	no data available
g)	Flash point	no data available
h)	Evaporation rate	no data available
i)	Flammability (solid, gas)	no data available
j)	Upper/lower flammability or explosive limits	no data available
k)	Vapour pressure	no data available
I)	Vapour density	no data available
m)	Relative density	no data available
n)	Water solubility	no data available

	o)	Partition coefficient: n- octanol/water	no data available
	p)	Autoignition temperature	no data available
	q)	Decomposition temperature	no data available
	r)	Viscosity	no data available
	s)	Explosive properties	no data available
	t)	Oxidizing properties	no data available
9.2		her safety information data available	
10.	ST	ABILITY AND REACTIVIT	Y
10.1		activity data available	
10.2		emical stability data available	
10.3	Possibility of hazardous reactions no data available		
10.4	Conditions to avoid no data available		
10.5	Incompatible materials Gives off hydrogen by reaction with metals.		
10.6	Hazardous decomposition products Other decomposition products - no data available		
11.	то	XICOLOGICAL INFORMA	TION
11.1	Information on toxicological effects		
	Sk	ute toxicity in corrosion/irritation data available	
		rious eye damage/eye irri data available	tation
	Re no	spiratory or skin sensitiza data available	ation
	Ge	rm cell mutagenicity	
	no	data available	
	Ca	rcinogenicity	
			inogenic to humans (Hexakis[µ-(acetato-o:o')]-µ4-oxotetraberyllium)
		productive toxicity data available	

Specific target organ toxicity - single exposure no data available

Specific target organ toxicity - repeated exposure no data available

Aspiration hazard no data available

Potential health effects

Inhalation	Toxic if inhaled. Causes respiratory tract irritation.
Skin	Toxic if absorbed through skin. Causes skin irritation.
Eyes	Causes serious eye irritation.

Signs and Symptoms of Exposure

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Additional Information RTECS: Not available

12. **ECOLOGICAL INFORMATION**

12.1 Toxicity no data available

- 12.2 Persistence and degradability no data available
- 12.3 Bioaccumulative potential no data available
- 12.4 Mobility in soil no data available
- 12.5 Results of PBT and vPvB assessment no data available
- 12.6 Other adverse effects no data available

DISPOSAL CONSIDERATIONS 13.

13.1 Waste treatment methods

Product

Offer surplus and non-recyclable solutions to a licensed disposal company.

Contaminated packaging

Dispose of as unused product.

14. **TRANSPORT INFORMATION**

14.1	UN numbe ADR/RID: 3	-	IMDG: 3264	IATA: 3264
14.2		CORROSIVE LIQUID,	ACIDIC, INORGANIC, N.O.S. (Nitric ACIDIC, INORGANIC, N.O.S. (Nitric , inorganic, n.o.s. (Nitric acid)	
14.3	Transport ADR/RID: 8	hazard class(es) 3	IMDG: 8	IATA: 8
14.4	Packaging group ADR/RID: III		IMDG: III	IATA: III
14.5	Environme ADR/RID: r	ental hazards	IMDG Marine pollutant: no	IATA: no
14.6	Special pronuce in the second	ecautions for user ailable		

15. REGULATORY INFORMATION

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

- 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture no data available
- **15.2 Chemical Safety Assessment** no data available

16. OTHER INFORMATION

Text of H-code(s) and R-phrase(s) mentioned in Section 3

Acute Tox.	Acute toxicity
Aquatic Chronic	Chronic aquatic toxicity
Carc.	Carcinogenicity
Eye Irrit.	Eye irritation
H272	May intensify fire; oxidiser.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H335	May cause respiratory irritation.
H350i	May cause cancer by inhalation.
H372	Causes damage to organs through prolonged or repeated exposure.
H411	Toxic to aquatic life with long lasting effects.
Ox. Liq.	Oxidizing liquids
Skin Corr.	Skin corrosion
Skin Irrit.	Skin irritation
Skin Sens.	Skin sensitization
STOT RE	Specific target organ toxicity - repeated exposure
STOT SE	Specific target organ toxicity - single exposure
С	Corrosive
R 8	Contact with combustible material may cause fire.
R25	Toxic if swallowed.
R26	Very toxic by inhalation.
Ν	Dangerous for the environment
0	Oxidising
R35	Causes severe burns.
R36/37/38	Irritating to eyes, respiratory system and skin.
R43	May cause sensitization by skin contact.
R48/23	Toxic: danger of serious damage to health by prolonged exposure through inhalation.
R49	May cause cancer by inhalation.
R51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
	environment.
T+	Very toxic

Further information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Central Drug House (P) Ltd and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.cdhfinechemical.com for additional terms and conditions of sale.