

CHAITANYA CHS, 2nd FLOOR, OFFICE # 206, SIDDHARTH NAGAR, S.V.ROAD, GOREGAON (W), MUMBAI 400062, MH, INDIA.
 CONTACT: +9122 28725393 /94/ 95 | EMAILID: CARE@SUVCHEM.COM

MATERIAL SAFETY DATA SHEET (MSDS)

NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)

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

1.1. Product identifier

Trade name : NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)

Product code : SI0309000100
 CAS No: N/A

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

Use : Industrial. For professional use only.

1.3. Details of the supplier of the safety data sheet

Company identification : SUVCHEM
 Chaitanya Tower, 2nd Floor, Office # 206,
 Siddharth Nagar, S.V. Road,
 Goregaon (West), Mumbai - 400062,
 Maharashtra, India.
 Contact: +91 22 28725393 / 94 / 95
 Email ID: info@suvchem.com/care@suvchem.com

1.4. Emergency telephone number

Phone no. : + 91 22 28725393 / 94 / 95 (9:00am - 6:00 pm) [Office hours]

2. Hazards identification -DSD

2.1. Classification of the substance or mixture

Classification EC 67/548 or EC 1999/45

Classification : Repr. Cat. 2; R61
 T; R23
 Xn; 48/20
 C; R35
 N; R51-53

Hazard Class and Category Code(s), Regulation (EC) No 1272/2008 (CLP)

Health hazards : Reproductive toxicity - Unborn Child - Category 1A - Danger (CLP : Repr. 1A) H360
 Specific Target Organ Toxicity - Repeated exposure - Category 2 - Warning (CLP : STOT RE 2) H373
 Skin corrosion - Category 1A - Danger (CLP : Skin Corr. 1A) H314
 Acute toxicity, Inhalation - Category 4 - Warning (CLP : Acute Tox. 4) H332

Environmental hazards : Hazardous to the aquatic environment - Chronic hazard - Category 2 (CLP : Aquatic Chronic 2) H411

2.2. Label elements

MATERIAL SAFETY DATA SHEET (MSDS)
NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)
2. Hazards identification -DSD (continued)
Labelling EC 67/548 or EC 1999/45
Symbol(s)

Symbol(s)

: T : Toxic
 C : Corrosive
 N : Dangerous for the environment

R Phrase(s)

: R23 : Toxic by inhalation.
 R35 : Causes severe burns.
 R48/20 : Harmful : danger of serious damage to health by prolonged exposure through inhalation.
 R51/53 : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
 R61 : May cause harm to the unborn child.

S Phrase(s)

: S4 : Keep away from living quarters.
 S24 : Avoid contact with skin.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 S28 : After contact with skin, wash immediately with
 S35 : This material and its container must be disposed of in a safe way.
 S36/37/39 : Wear suitable protective clothing, gloves and eye/face protection.
 S38 : In case of insufficient ventilation, wear suitable respiratory equipment.
 S45 : In case of accident or if you feel unwell, seek medical advice immediately (show the label when possible).
 S53 : Avoid exposure - obtain special instructions before use.
 S57 : Use appropriate container to avoid environmental contamination.
 S59 : Refer to manufacturer/supplier for information on recovery/recycling.
 S60 : This material and its container must be disposed of as hazardous waste.
 S61 : Avoid release to the environment. Refer to special instructions/Safety data sheets.

Contains

: Water - Hidróxido de sodio - mercury - Yoduro potásico - Iodine

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

: H360D: May damage the unborn child.
 H314 : Causes severe skin burns and eye damage.
 H332 : Harmful if inhaled.
 H373 : May cause damage to organs through prolonged or repeated exposure.
 H411 : Toxic to aquatic life with long lasting effects.

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MATERIAL SAFETY DATA SHEET (MSDS)

NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)

2. Hazards identification -DSD (continued)

Precautionary statements

- **General** : P201: Obtain special instructions before use.
- **Prevention** : P280: Wear protective gloves, protective clothing, eye protection, face protection.
 P271: Use only outdoors or in a well-ventilated area.
 P260: Do not breathe dust, fume, gas, mist, vapours, spray.
 P273: Avoid release to the environment.
 P264: Wash thoroughly after handling.
- **Response** : P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting.
 P308+P313: If exposed or concerned : get medical advice.
 P391: Collect spillage.
 P305+P351+P338: IF IN EYES : Rinse cautiously with water for several minutes.
 Remove contact lenses, if present and easy to do. Continue rinsing.
 P304+P340: IF INHALED : Remove to fresh air and keep at rest in a position comfortable for breathing.
 P303+P361+P353: IF ON SKIN (or hair) : Remove immediately all contaminated clothing. Rinse skin with water/shower.
 P363: Wash contaminated clothing before reuse.
 P314: Get medical advice if you feel unwell.
- **Storage** : P405: Store locked up.
- **Disposal considerations** : P501: Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.
- Special labelling** : Restricted to professional users. (Substances which appear in Part 3 of Annex VI to Regulation (EC) No 1272/2008)
- Contains** : Water - Hidróxido de sodio - mercury - Yoduro potásico - Iodine

2.3. Other hazards

- Other hazards** : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

3. Composition/information on ingredients

Substance / Preparation : Preparation.

Hazardous component(s) : This product is hazardous.

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
mercury	> 1 < 5 %	7439-97-6	231-106-7	080-001-00-0	----	Repr. Cat. 2; R61 T+; R26 T; R48/23 N; R50-53 Repr. 1B _ H360D Acute Tox. 2 (inhal) _ H330 STOT RE 1 _ H372 Aquatic Acute 1 _ H400 Aquatic Chronic 1 _ H410
Yoduro potásico	> 1 < 5 %	7681-11-0	-----	-----	----	Xn; R22 Xi; R36/38 Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315

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MATERIAL SAFETY DATA SHEET (MSDS)
NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)
3. Composition/information on ingredients (continued)

Substance name	Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
Iodine	: > 1 < 5 %	7553-56-2	231-442-4	053-001-00-3	----	Xn; R20/21 N; R50 Acute Tox. 4 (skin) _ H312 Acute Tox. 4 (inhal) _ H332 Aquatic Acute 1 _ H400
Hidróxido de sodio	: > 10 < 15 %	1310-73-2	-----	-----	----	C; R35 Skin Corr. 1A _ H314
Water	: > 75 < 99 %	7732-18-5	231-791-2	-----	----	Not classified (DSD/DPD) Not classified (GHS)

4. First aid measures
4.1. Description of first aid measures

Inhalation	: Remove to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor if you feel unwell. Immediately call a POISON CENTER or doctor.
Skin contact	: Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor. Remove/Take off immediately all contaminated clothing.
Eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor.
Ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER or doctor.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms relating to use	: May damage the unborn child. Danger of serious damage to health by prolonged exposure through inhalation. Causes damage to organ. Causes severe skin burns and eye damage.
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4.3. Indication of any immediate medical attention and special treatment needed

General information	: Never give anything by mouth to an unconscious person. If exposed or concerned : get medical advice.
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5. Fire-fighting measures
5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.
Surrounding fires	: Use water spray or fog for cooling exposed containers.

5.2. Special hazards arising from the substance or mixture

MATERIAL SAFETY DATA SHEET (MSDS)
NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)
5. Fire-fighting measures (continued)

Hazardous combustion products : Under fire conditions, hazardous fumes will be present.
Thermal decomposition generates : Corrosive vapours.

5.3. Advice for fire-fighters

Protection against fire : Do not enter fire area without proper protective equipment, including respiratory protection.

Special procedures : Exercise caution when fighting any chemical fire. Avoid (reject) fire-fighting water to enter environment.

6. Accidental release measures
6.1. Personal precautions, protective equipment and emergency procedures

For emergency responders : Equip cleanup crew with proper protection.
Ventilate area.

For non-emergency personnel : Evacuate unnecessary personnel.

6.2. Environmental precautions

Environmental precautions : Prevent entry to sewers and public waters. Notify authorities if product enters sewers or public waters.
Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Clean up methods : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Store away from other materials. Collect spillage.

6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

Handling : Obtain special instructions before use. Use only outdoors or in a well-ventilated area. Do not breathe dust, fume, gas, mist, vapours, spray. Avoid contact during pregnancy or while nursing. Wash thoroughly after handling.

Technical protective measures : Provide good ventilation in process area to prevent formation of vapour.

Special precautions : Avoid breathing dust, fume, gas, mist, vapours, spray.

7.2. Conditions for safe storage, including any incompatibilities

MATERIAL SAFETY DATA SHEET (MSDS)
NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)
7. Handling and storage (continued)

Storage	: Keep only in the original container in a cool, well ventilated place. Keep container closed when not in use.
Storage regulation	: Comply with applicable regulations.
Storage - away from	: Strong bases. Strong acids. Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

Specific end use(s)	: None.
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8. Exposure controls/personal protection
8.1. Exposure controls
Personal protection


Personal protection	: Avoid all unnecessary exposure.
• Respiratory protection	: In case of insufficient ventilation, wear suitable respiratory equipment.
• Hand protection	: Wear protective gloves.
• Skin protection	: Wear suitable protective clothing.
• Eye protection	: Chemical goggles or face shield.
• Others	: When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits	: No data available.
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9. Physical and chemical properties
9.1. Information on basic physical and chemical properties

Physical state at 20 °C	: Liquid.
Colour	: Colorless
Odour	: Characteristic.
Odour threshold	: No data available.
pH value	: No data available.
Melting point [°C]	: No data available.
Decomposition point [°C]	: N/A
Critical temperature [°C]	: No data available.

MATERIAL SAFETY DATA SHEET (MSDS)
NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)
9. Physical and chemical properties (continued)

Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: N/A
Flash point [°C]	: No data available.
Boiling point [°C]	: 1050C
Initial boiling point [°C]	: No data available.
Final boiling point [°C]	: No data available.
Evaporation rate	: N/A
Vapour pressure [20°C]	: No data available.
Vapour pressure mm/Hg	: N/A
Vapour density	: N/A
Density [g/cm ³]	: 1,15
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: Miscible in water
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: N/A
Viscosity at 40°C [mm ² /s]	: No data available.

9.2. Other information

Explosive properties	: N/A
Explosion limits - upper [%]	: No data available.
Explosion limits - lower [%]	: No data available.
Oxidising properties	: No data available.

10. Stability and reactivity
10.1. Reactivity.

Reactivity	: Not established.
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10.2. Chemical stability

Chemical stability	: Stable under recommended storage conditions.
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10.3. Possibility of hazardous reactions

Hazardous reactions	: Not established.
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10.4. Conditions to avoid

MATERIAL SAFETY DATA SHEET (MSDS)
NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)
10. Stability and reactivity (continued)

Conditions to avoid : Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Materials to avoid : Strong acids. Strong bases.

10.6. Hazardous decomposition products

Hazardous decomposition products : Fumes. Carbon monoxide. Carbon dioxide.
 Thermal decomposition generates : Corrosive vapours.

11. Toxicological information
11.1. Information on toxicological effects

Toxicity information : The product has been not fully tested. The calculated risk has been done under the requirements of the EU regulations.

Acute toxicity

- **Inhalation** : Harmful if inhaled.
- **Dermal** : Based on available data, the classification criteria are not met.
- **Ingestion** : Based on available data, the classification criteria are not met.

Corrosion : Causes severe skin burns and eye damage.

Irritation : Based on available data, the classification criteria are not met.

Sensitization : Based on available data, the classification criteria are not met.

Mutagenicity : Based on available data, the classification criteria are not met.

Carcinogenicity : Based on available data, the classification criteria are not met.

Toxic for reproduction : May damage the unborn child.

STOT-single exposure : Based on available data, the classification criteria are not met.

STOT-repeated exposure : May cause damage to organs through prolonged or repeated exposure.

Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information
12.1. Toxicity

Toxicity information : Toxic to aquatic life with long lasting effects.

12.2. Persistence - degradability

Persistence - degradability : May cause long-term adverse effects in the environment.

12.3. Bioaccumulative potential

MATERIAL SAFETY DATA SHEET (MSDS)
NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)
12. Ecological information (continued)

Bioaccumulative potential : Not established.

12.4. Mobility in soil

Mobility in soil : Not established.

12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment : The substance does not fulfil the criteria to be identified as PBT substance or vPvB substance according to Annex XIII of Regulation REACH.

12.6. Other adverse effects

Environmental precautions : Avoid release to the environment.

13. Disposal considerations
13.1. Waste treatment methods

General : Avoid release to the environment. Dispose in a safe manner in accordance with local/national regulations. Dispose of this material and its container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

14. Transport information
14.1. Land transport (ADR-RID)

 Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
 UN N° : 2922
 H.I. nr : 86
 ADR - Class : 8
 Labelling - Transport : 8 : Corrosive substance. 6.1 : Toxic substances. 9 : Miscellaneous dangerous substances and articles.

 ADR - Classification code : CT1
 ADR - Group : II
 ADR - Packing instructions : P001
 ADR - Limited Quantity : 1 L

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14. Transport information (continued)

ADR - Tunnel code



: E : Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
 UN N° : 2922
 IMO-IMDG - Class or division : 8 : Corrosive substance. (6.1 : Toxic substances.) (9 : Miscellaneous dangerous substances and articles.)
 IMO-IMDG - Packing group : II
 IMO- IMDG - Packing instructions : P001
 IMO-IMDG - Limited quantities : 1 L
 IMO-IMDG - Marine pollution : Yes
 EMS-Nr : F-A S-B

14.3. Air transport (ICAO-IATA) [English only]

Proper shipping name : CORROSIVE LIQUID, TOXIC, N.O.S.
 UN N° : 2922
 IATA - Class or division : 8 : Corrosive substance. (6.1 : Toxic substances.) (9 : Miscellaneous dangerous substances and articles.)
 IATA - Packing group : II
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing instruction : 851
 - Passenger and Cargo - Maximum Quantity/Packing : 1 L
 IATA - Cargo only : ALLOWED
 - Cargo only - Packing instruction : 855
 - Cargo only - Maximum Quantity/ Packing : 30 L
 IATA - Limited Quantities : 0.5 L
 ERG-Nr : 8P

15. Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

MATERIAL SAFETY DATA SHEET (MSDS)
NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)
15. Regulatory information (continued)

- Safety, health and environmental regulations/legislation specific for the substance or mixture** : Ensure all national/local regulations are observed.
- REACH Restrictions - Annex XVII** : With the exception of those listed below:
The components of this product are not subject to restrictions.
• mercury : Annex XVII
- REACH Authorisation - Annex XIV** : The components of this product are not subject to authorization.

15.2. Chemical Safety Assessment

- Chemical Safety Assessment** : It has not been carried out.

16. Other information

- Revision** : Revision - See : *
- Abbreviations and acronyms** : PBT: persistent, bioaccumulative and toxic.
vPvB: very persistent and very bioaccumulative
- Sources of key data used** : REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006
- List of relevant R phrases (heading 3)** : R20/21 : Harmful by inhalation and in contact with skin.
R22 : Harmful if swallowed.
R26 : Very toxic by inhalation.
R35 : Causes severe burns.
R36/38 : Irritating to eyes and skin.
R48/23 : Toxic : danger of serious damage to health by prolonged exposure through inhalation.
R50 : Very toxic to aquatic organisms.
R50/53 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
R61 : May cause harm to the unborn child.
- List of full text of H-statements in section 3** : H302 : Harmful if swallowed.
H312 : Harmful in contact with skin.
H314 : Causes severe skin burns and eye damage.
H315 : Causes skin irritation.
H319 : Causes serious eye irritation.
H330 : Fatal if inhaled.
H332 : Harmful if inhaled.
H360U : May damage the unborn child.
H372 : Causes damage to organs through prolonged or repeated exposure.
H400 : Very toxic to aquatic life.
H410 : Very toxic to aquatic life with long lasting effects.
- Further information** : None.

MATERIAL SAFETY DATA SHEET (MSDS)

NESSLER'S REAGENT (KING'S) (FOR DETERMINATION OF SERUM UREA NITROGEN)

In accordance with REACH Regulation (CE) N° 1907/2006 and with CLP Regulation (CE) N° 1272/2008

DISCLAIMER:

- **SUVCHEM** Products are to be used as Lab Chemicals for R&D only. Not for drug, medicinal, household or other uses.
- **SUVCHEM** shall not be responsible for any damage resulting from handling or from contact with the above product.
- **SUVCHEM** provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product.

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