

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 : SI0309000250

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



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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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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.

: P301+P330+P331: IF SWALLOWED : Rinse mouth. Do NOT induce vomiting. Response

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.

: P405: Store locked up. Storage

: P501: Dispose of this material and its container to hazardous or special waste Disposal considerations

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.

EC No

Substance name Contents CAS No Annex No REACH Ref. Classification Repr. Cat. 2; R61 T+; R26 mercury > 1 < 5 % 7439-97-6 231-106-7 080-001-00-0

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

Acute Tox. 4 (oral) _ H302 Eye irrit 2 _ H319 Skin Irrit. 2 _ H315



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3. Composition/information on ingredients (continued)

Substance name		Contents	CAS No	EC No	Annex No	REACH Ref.	Classification
lodine	:	> 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.

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.

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



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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



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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.

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
 Eye protection
 Wear suitable protective clothing.
 Chemical goggles or face shield.

• Others : When using, do not eat, drink or smoke.

8.2. Control parameters

Occupational Exposure Limits : No data available.

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.



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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/cm3] : 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 [mm2/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.

10.2. Chemical stability

Chemical stability : Stable under recommended storage conditions.

10.3. Possibility of hazardous reactions

Hazardous reactions : Not established.

10.4. Conditions to avoid



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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



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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

- Passenger and Cargo - Maximum : 1 L

Quantity/Packing

IATA - Cargo only : ALLOWED

- Cargo only - Packing instruction : 855 - Cargo only - Maximum Quantity/ : 30 L

Packing

IATA - Limited Quantites : 0.5 L ERG-Nr : 8P

15. Regulatory information

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



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15. Regulatory information (continued)

Safety, health and environmental regulations/legislation specific for the

: Ensure all national/local regulations are observed.

substance or mixture

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

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

16. Other information

Revision : Revision - See : *

: PBT: persistent, bioaccumulative and toxic. Abbreviations and acronyms

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



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

In accordance with REACH Regulation (CE) No 1907/2006 and with CLP Regulation (CE) No 1272/2008

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