

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)

KOVAC'S INDOLE REAGENT

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

1.1. Product identifier

Trade name : KOVAC'S INDOLE REAGENT

Product code : SI0306500500
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 : Xn; R22
R67
Xi; R37/38-41

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

Health hazards : Specific Target Organ Toxicity - Single exposure - Respiratory tract irritation -
Category 3 - Warning (CLP : STOT SE 3) H335
Specific Target Organ Toxicity - Single exposure - Narcotic effects - Category 3 -
Warning (CLP : STOT SE 3) H336
Acute toxicity, Oral - Category 4 - Warning (CLP : Acute Tox. 4) H302
Skin corrosion - Category 1B - Danger (CLP : Skin Corr. 1B) H314

2.2. Label elements

Labelling EC 67/548 or EC 1999/45

MATERIAL SAFETY DATA SHEET (MSDS)
KOVAC'S INDOLE REAGENT
2. Hazards identification -DSD (continued)
Symbol(s)

Symbol(s)

: Xn : Harmful

R Phrase(s)

 : R22 : Harmful if swallowed.
 R37/38 : Irritating to respiratory system and skin.
 R41 : Risk of serious damage to eyes.
 R67 : Vapours may cause drowsiness and dizziness.

S Phrase(s)

 : S24 : Avoid contact with skin.
 S26 : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
 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.
 S51 : Use only in well-ventilated areas.
 S59 : Refer to manufacturer/supplier for information on recovery/recycling.

Contains

: 1-Butanol - Hydrochloric acid - p-DIMETHYL AMINO BENZALDEHYDE 98%

Labelling Regulation EC 1272/2008 (CLP)
Hazard pictograms

Signal words

: Danger

Hazard statements

 : H314 : Causes severe skin burns and eye damage.
 H302 : Harmful if swallowed.
 H335 : May cause respiratory irritation.
 H336 : May cause drowsiness or dizziness.

Precautionary statements
• 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.
 P264: Wash thoroughly after handling.
 P270: Do not eat, drink or smoke when using this product.

• Response

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

• Storage

 : P403+P233: Store in well-ventilated place. Keep container tightly closed.
 P405: Store locked up.

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MATERIAL SAFETY DATA SHEET (MSDS)

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2. Hazards identification -DSD (continued)

• **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.

Contains : 1-Butanol - Hydrochloric acid - p-DIMETHYL AMINO BENZALDEHYDE 98%

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
p-DIMETHYL AMINO BENZALDEHYDE 98%	> 1 < 5 %	100-10-7	----	----	----	Not classified (DSD/DPD) Not classified (GHS)
1-Butanol	> 75 < 99 %	71-36-3	200-751-6	603-004-00-6	----	R10 Xn; R22 R67 Xi; R37/38-41 ----- Eye Dam 1 _ H318 Flam. Liq. 3 _ H226 Acute Tox. 4 (oral) _ H302 Skin Irrit. 2 _ H315 STOT SE 3 _ H335 STOT SE 3 _ H336
Hydrochloric acid	> 5 < 10 %	7647-01-0	231-595-7	017-002-01-X	----	C; R34 Xi; R37 ----- Skin Corr. 1B _ H314 STOT SE 3 _ H335

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. Immediately call a POISON CENTER or doctor.

Skin contact : Remove/Take off immediately all contaminated clothing. Wash with plenty of soap and water. Immediately call a POISON CENTER or doctor.

Eye contact : Remove contact lenses, if present and easy to do. Continue rinsing. Rinse cautiously with water for several minutes. Immediately call a POISON CENTER or doctor.

Ingestion : Call a POISON CENTER or doctor if you feel unwell. 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 : Swallowing a small quantity of this material will result in serious health hazard. Causes severe skin burns and eye damage. May cause respiratory irritation. May cause drowsiness or dizziness.

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4. First aid measures (continued)

4.3. Indication of any immediate medical attention and special treatment needed

General information : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

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

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.
 Avoid breathing dust, fume, gas, mist, vapours, spray.
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.

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. Collect spillage. Store away from other materials.

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KOVAC'S INDOLE REAGENT
6. Accidental release measures (continued)
6.4. Reference to other sections

See section 8. Exposure controls/personal protection

7. Handling and storage
7.1. Precautions for safe handling

Handling	: Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse. Wash thoroughly after handling. Do not breathe dust, fume, gas, mist, vapours, spray. Use only outdoors or in a well-ventilated area.
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

Storage	: Keep only in the original container in a cool, well ventilated place. Keep container tightly closed.
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	: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.
• 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

MATERIAL SAFETY DATA SHEET (MSDS)
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8. Exposure controls/personal protection (continued)

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.
Auto-ignition temperature [°C]	: No data available.
Flammability (solid, gas)	: N/A
Flash point [°C]	: No data available.
Boiling point [°C]	: 85°C
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	: 2,31
Density [g/cm ³]	: 0,92
Relative density, gas (air=1)	: N/A
Relative density, liquid (water=1)	: N/A
Solubility in water [% weight]	: N/A
Solubility in water	: No data available.
Log Pow octanol / water at 20°C	: No data available.
Solubility	: Acidic.
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.

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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

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

Corrosion : Causes severe skin burns and eye damage.

Irritation : May cause respiratory irritation.

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

STOT-single exposure : May cause drowsiness or dizziness.

MATERIAL SAFETY DATA SHEET (MSDS)
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11. Toxicological information (continued)

- STOT-repeated exposure** : Based on available data, the classification criteria are not met.
Aspiration hazard : Based on available data, the classification criteria are not met.

12. Ecological information
12.1. Toxicity

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

12.2. Persistence - degradability

- Persistence - degradability** : Biodegradable.

12.3. Bioaccumulative potential

- 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.

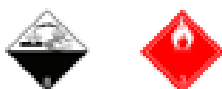
13. Disposal considerations
13.1. Waste treatment methods

- 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)

MATERIAL SAFETY DATA SHEET (MSDS)
KOVAC'S INDOLE REAGENT
14. Transport information (continued)

Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
 UN N° : 2920
 H.I. nr : 83
 ADR - Class : 8
 Labelling - Transport : 8 : Corrosive substance. 3 : Flammable liquid.



ADR - Classification code : CF1
 ADR - Group : II
 ADR - Packing instructions : P001
 ADR - Limited Quantity : 1 L
 ADR - Tunnel code



: D/E : Bulk or tank carriage: Passage forbidden through tunnels of category D and E. Other carriage: Passage forbidden through tunnels of category E.

14.2. Sea transport (IMDG) [English only]

Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
 UN N° : 2920
 IMO-IMDG - Class or division : 8 : Corrosive substance. (3 : Flammable liquid.)
 IMO-IMDG - Packing group : II
 IMO-IMDG - Packing instructions : P001
 IMO-IMDG - Limited quantities : 1 L
 IMO-IMDG - Marine pollution : No
 EMS-Nr : F-E S-C

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

Proper shipping name : CORROSIVE LIQUID, FLAMMABLE, N.O.S.
 UN N° : 2920
 IATA - Class or division : 8 : Corrosive substance. (3 : Flammable liquid.)
 IATA - Packing group : II
 IATA - Passenger and Cargo Aircraft : ALLOWED
 - Passenger and Cargo - Packing instruction : 851

MATERIAL SAFETY DATA SHEET (MSDS)
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14. Transport information (continued)

- 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	: 8F

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

Safety, health and environmental regulations/legislation specific for the substance or mixture	: Ensure all national/local regulations are observed.
REACH Restrictions - Annex XVII	: The components of this product are not subject to restrictions.
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.
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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)	: R10 : Flammable. R22 : Harmful if swallowed. R34 : Causes burns. R37 : Irritating to respiratory system. R37/38 : Irritating to respiratory system and skin. R41 : Risk of serious damage to eyes. R67 : Vapours may cause drowsiness and dizziness.
List of full text of H-statements in section 3	: H226 : Flammable liquid and vapour. H302 : Harmful if swallowed. H314 : Causes severe skin burns and eye damage. H315 : Causes skin irritation. H318 : Causes serious eye damage. H335 : May cause respiratory irritation.

MATERIAL SAFETY DATA SHEET (MSDS)

KOVAC'S INDOLE REAGENT

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.
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